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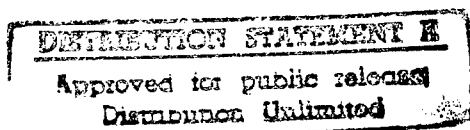
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Bibliography on
COLD REGIONS
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VOLUME 50, PART 2

Stuart G. Hibben, Editor



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BIBLIOGRAPHY ON COLD REGIONS SCIENCE AND TECHNOLOGY
Volume 50, Part 2

This companion issue to Volume 50, Part 1, contains author and subject headings for the volume. In the author index, principal and joint personal and corporate authors are listed along with the title, date, pagination, and language of the document and the accession number. The subject index is composed of four basic elements:

- 1) terms taken from a controlled vocabulary based on the Thesaurus of Engineering and Scientific Terms (LEX-EJC)
- 2) free terms added as needed
- 3) geographic names, generally entered under countries
- 4) cross references suggesting additional appropriate terms.

The terms are listed in a single alphabetical arrangement, along with title (original, translated, abridged, expanded, or supplied), principal author, date, pagination, and language of pertinent documents, and their accession numbers.

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Effect of aging on the penetration resistance of sands [1995, eng] 50-1823
- ACI International Conference on Evaluation and Rehabilitation of Concrete Structures and Innovations in Design, Hong Kong, Dec. 2-6, 1991**
Proceedings [1992, eng] 50-2752
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Temporal characteristics of Pennsylvania snowfall, 1950-1951 through 1989-1990 [1995, eng] 50-970
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Radiosonde examination of synoptical scale wind/cloud dynamics [1995, eng] 50-3256
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Restoration of Kakabeka Falls, Ontario, Canada [1992, eng] 50-2763
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Ice/metal interfaces: fracture energy and fractography [1996, eng] 50-5243
Scale effects on the fracture and constitutive behavior of sea ice [1995, eng] 50-6279
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Magnetic analysis of glacialic sediment weathering [1995, eng] 50-6562
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Biomass, primary production, and nutrient dynamics in a Himalayan forest [1994, eng] 50-5435
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National climatic reference base for exceptional wet snow and rime ice episodes [1996, eng] 50-5331
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Distributions of volcanic aerosols in antarctic polar stratospheric clouds [1995, eng] 50-2848
Lidar observations of stratospheric temperature above McMurdo Station, Antarctica [1996, eng] 50-5605
Polar stratospheric clouds observed by lidar at McMurdo Station during the 1993 winter [1994, eng] 50-4239
- Adriano, D.C.**
Contamination of groundwaters [1994, eng] 50-5515
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Dynamics of the last glaciation in eastern Svalbard [1995, eng] 50-4714
Radiocarbon dated common mussels *Mytilus edulis* from eastern Svalbard [1995, eng] 50-4719
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Glaciers of the Swiss Alps 1975/76 and 1976/77 [1983, ger] 50-3845
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- Aeschmann, D.**
Introduction to the Alps [1995, eng] 50-1010
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Drifting ice forces on offshore piles [1990, eng] 50-98
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Investigations of air-sea interactions carried out during the TRANSDRIFT II Expedition [1995, eng] 50-2060
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Origin and evolution of the mountain flora in Middle Asia and neighbouring mountain regions [1995, eng] 50-3893
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Thickness and structural characteristics of the cryolithozone in northwest Siberia [1996, rus] 50-6358
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In situ bioremediation in arctic Canada [1994, eng] 50-1472
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Ice-covered temperate lake limnology [1995, eng] 50-739
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Large eddy simulation of the turbulent flow in a marine convective boundary layer with snow [1996, eng] 50-3683
- Ageenko, N.N.**
Prospects for the development of the industrial construction base in the Novosibirsk region [1995, rus] 50-3085
- Ageev, M.D.**
Autonomous underwater vehicle "Typhlonus" for under-ice exploration [1996, eng] 50-5910
- Ager, T.A.**
Vegetational history of western Alaska during the Wisconsin glacial interval and the Holocene [1982, eng] 50-3372
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Mass balance of Kangwura (flat-top) Glacier on the north side of Mt. Xixiabangma, China [1996, eng] 50-5514
Recent glacier fluctuations in inland Asia [1995, jpn] 50-998
Runoff modeling of a debris-covered glacier in Nepal [1996, eng] 50-5509
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Ocean load tides at the South Pole [1995, eng] 50-4199
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Comment on paper by Avila et al [1996, eng] 50-5454
Temperature dependence of static charging in ice growing by riming [1995, eng] 50-3004
- Aguirre-Puente, J.**
Tests on the thermal behavior of steel in polar conditions (North Geographic Pole) [1990, spa] 50-5528
- Ahire, D.V.**
Role of electrified ice meltwater in thunderstorms [1984, eng] 50-4923

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CO₂ fluxes in peatlands under varying temperature and moisture conditions [1994, eng] 50-3218
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Application of satellite visible band data to high latitude oceans [1989, eng] 50-3934
Plume of the Yukon River in relation to the oceanography of the Bering Sea [1989, eng] 50-3933
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Methodology for predicting for winter conditions in the NATO Reference Mobility Model [1995, eng] 50-48
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Cement and lime for deep stabilization of soil. A chemical-physical study of stabilization effects [1995, swe] 50-2168
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Estimation of climate change effect on the runoff: catchment-scale application of SOIL-model [1994, eng] 50-3194
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System for recovery of oil from snow and ice surfaces [1995, eng] 50-3473
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Enzymatic and morphological variations in arctic grasses [1995, eng] 50-1068
Phenotypic plasticity in leaves of four species of arctic *Festuca* (Poaceae) [1995, eng] 50-3301
- Aircraft icing handbook**
Aircraft icing handbook [1993, eng] 50-5064
- Airi, S.**
High altitude (above timber-line) bryoflora of Kumaun Himalaya [1994, eng] 50-5431
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Mix design of air-entrained, high-performance concrete [1995, eng] 50-2670
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Fossilization potential of arctic fjord and continental shelf benthic macrofaunas [1990, eng] 50-923
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Spectropolarimetry of the 3 micron ice feature toward the Becklin-Neugebauer object [1996, eng] 50-5504
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Thermal radiation of water from 0° to 75°C, pt.3 [1996, eng] 50-5192
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Characteristics of runoff formation at the Kirgizskiy Ala-too, Tien Shan [1995, eng] 50-2435
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High-resolution mass spectrometry for ice core trace element determination [1995, eng] 50-2576
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Transport of sand particles and dune shifting by wind in the Taklimakan Desert [1991, jpn] 50-1432
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Nordic permafrost—a bibliography [1993, eng] 50-5304
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Slope processes and climate in the Abisko Mountains, northern Sweden [1993, eng] 50-836
Solifluction and creep rates 1972-1991, Kapp Linné, West Spitsbergen [1993, eng] 50-841
Swedish contribution to Permafrost Association permafrost lexicon [1993, eng] 50-4793
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Asian glacier ice flow and mass continuity [1996, eng] 50-6057
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Exploration for hydrocarbon deposits and engineering preparation of oil and gas provinces [1996, rus] 50-6371
Probability model for the structure of frozen strata in Central and Eastern Siberia [1996, rus] 50-6370
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Submillimeter wave attenuation in falling snow [1979, jpn] 50-3940
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Halocarbon seasonal variations in the arctic troposphere [1996, eng] 50-5612
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Simulation of soil moisture variations reflecting the hydrological cycle [1996, eng] 50-5918
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Field observations of sun crust formation in Hokkaido, Japan [1996, eng] 50-5500
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Shear moduli and damping in frozen and unfrozen clay by resonant column tests [1996, eng] 50-5817
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Biodiversity and climate in the coastal temperate rainforests of North America [1996, eng] 50-4063
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- International Arctic Science Committee (IASC), Oslo, Norway**
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- International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991**
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- International Association for Hydraulic Research. Section on Ice Problems**
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- International Commission for Alpine Rescue (French version: Commission Internationale pour le Sauvetage Alpin) (German version: Internationale Kommission für Alpen Rettungswesen), Birchwil, Switzerland**
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- International Conference on Cold Regions Engineering, 8th, Fairbanks, AK, Aug. 12-16, 1996**
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- International Conference on Engineering and Development in Northern Regions, Sapporo, Japan, Jan. 31-Feb. 2, 1983**
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- International Conference on Natural-Produced Halogens, Delft, The Netherlands, 1995. Edited by A. Grimwall and E.W.B. de Leer**
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- International Conference on Offshore Mechanics and Arctic Engineering (OMAE), 14th, Copenhagen, Denmark, June 18-22, 1995**
Proceedings. Volume IV. Arctic/polar technology [1995, eng] 50-2935
- International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973**
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- International Mountain Rescue Commission**
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- International Offshore and Polar Engineering Conference, 5th, Hague, Netherlands, June 11-16, 1995**
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- International Permafrost Association**
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- International Symposium on Glacial Erosion and Sedimentation, Reykjavik, Iceland, Aug. 20-25, 1995**
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- Japanese Society of Snow and Ice. Polar Snow and Ice Branch Committee (Nihon seppyo gakkai Kyokuchi seppyo bunkakai hinkai)
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- NIPR Symposium on Polar Meteorology and Glaciology, 17th, Tokyo, July 13-14, 1994**
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Propagation of sound from a moving airborne source in an ice-covered ocean [1996, eng] 50-4626
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International Conference on Global Change and Arctic Terrestrial Ecosystems—recommendations [1993, eng] 50-3331
- Oelhauf, H.
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- Oertgen, E.
Belt track for track-laying vehicles and snowmobiles [1991, eng] 50-2239
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- Oertle, D.H.
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XVI Polar Symposium: Achievements and Prospects of Polish Polar Research, Toruń, Sep. 19-20, 1989 [1989, pol] 50-2870
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- Österreichisch-Alpine Montangesellschaft (Austrian Alpine Mining Company)**
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- Test methods for abrasion of concrete structures by ice. Hara, F., et al. [1995,eng] 50-2654
- Thermo-abrasion and thermo-denudation of the shores of arctic seas (e.g., the Laptev Sea). Grigor'ev, M.N., [1996,rus] 50-6409
- Thermo-abrasion and thermo-erosion of the shores of arctic seas as a system of exogenous processes. Voskresenskii, K.S., et al. [1991,rus] 50-1300
- Ventifacts as palaeo-wind indicators in southern Scandinavia. Schlyter, P., [1996,eng] 50-6698
- Wear resistance of concrete under low temperature. Horiguchi, T., [1995,eng] 50-2657

Absorption

- Conditions for the propagation of short-wave radio waves during ionospheric disturbances. Lukashkin, V.M., [1991,rus] 50-2263
- Forecasting service life of frost-penetrated concrete. Págerlund, G., [1996,eng] 50-4788
- Formation of ice between hydroalite particles measured by thermoporometry. Titulaer, M.K., et al. [1996,eng] 50-6330
- Frost durability of high strength concrete: effect of internal cracking on ice formation. Jacobsen, S., et al. [1996,eng] 50-6097
- Low temperature effects on saturated fibrous polymer composites. Starzhetskaya, T.A., et al. [1996,eng] 50-4005
- Marginal filter of the ocean. Lisitsyn, A.P., [1995,eng] 50-3542
- Seasonal freezing and soil erosion during snowmelt. Demidov, V.V., et al. [1995,eng] 50-2714
- SO₂ distributions on Io. Santoretto, P., et al. [1996,eng] 50-6529
- Sorption of nonpolar organic vapors by ice and snow. Hoff, J.T., et al. [1995,eng] 50-644
- Thermal radiation of water from 0° to 75°C, pt.3. Aivazian, G.M., [1996,eng] 50-5192
- See [also]: Atmospheric attenuation; Attenuation; Light transmission; Radiation absorption; Transparency; Turbidity
- ## Accelerated melting
- See [also]: Artificial melting
- ## Accessibility
- See [also]: Site accessibility
- ## Accidents
- 1996 avalanche cycle of intermountain West. Tremper, B., [1996,eng] 50-4761
- Analysis of the Kominet pipeline oil. Lambert, P., et al. [1995,eng] 50-5734
- Analysis of winter skid accidents in Sapporo City and Asahikawa City. Nagai, T., et al. [1995,jpn] 50-6792
- Analysis of winter skid accidents in Sapporo City. Nagai, T., et al. [1994,jpn] 50-2827
- Artificial intelligence and avalanches. Caliarì, R., [1995,ita] 50-2594
- Assessing the hazard of too much or too little snow in the pastoral regions of China. Gu, Z.W., et al. [1995,chi] 50-3976
- Avalanche accidents in France from 1971 to 1974. Sivardière, F., et al. [1995,fre] 50-4641
- Avalanche accidents this season. [1996,eng] 50-4762
- Avalanche casualties in France, Oct. 1994-Sep. 1995. Sivardière, F., [1995,fre] 50-2587
- Avalanche report 1992/93. Documentation and experts-contributions. Luzian, R., et al. [1995,ger] 50-4167
- Avalanche rescue dogs. Gouzon, J.P., [1995,fre] 50-2591
- Avalanche warning flags: what do you think? Sivardière, F., [1995,fre] 50-2593
- Aviation weather: forces to be reckoned with. Taylor, R.L., [1991,eng] 50-6498
- Beware carb ice. [1992,eng] 50-3799
- Carburetor ice gremlin? [1990,eng] 50-3573
- Case history of a lined wastewater treatment lagoon failure. Merrill, K.S., et al. [1996,eng] 50-6150
- Casualties due to snow and ice phenomena. Ikarashi, T., [1995,jpn] 50-605
- Cleanup assessment of the pipeline oil spill on the Kova River. Sienkiewicz, A.M., et al. [1996,eng] 50-5570
- Climatological analysis of the snowstorm damage in Xizang. Lin, Z.Y., [1992,chi] 50-1496
- Colorado storm and avalanches of February 1995. McCarty, D., et al. [1995,eng] 50-1098
- Comparison of shoreline assessment study designs used for the Exxon Valdez oil spill. Gilfillan, E.S., et al. [1996,eng] 50-5554
- Contained controlled burning of spilled oil during the Exxon Valdez oil spill. Allen, A.A., [1990,eng] 50-471
- Council of Europe's Open Partial Agreement on Major Hazards. EUR-OPA. Tondre, F., [1995,fre] 50-4645
- Current status and prospects of avalanche control. Nakamura, T., [1995,jpn] 50-609
- Damage to equipment and structures in the North. Novopashin, M.D., et al. [1993,rus] 50-465
- Debris flows in the eastern Qinghai-Xizang Plateau. Tang, B.X., et al. [1994,eng] 50-4785
- Developing the U.S. Coast Guard's Airborne Dispersant Delivery System capability. Bleicher, D., et al. [1995,eng] 50-5722

- Effect of the popularization of studless tires on traffic conditions. Horita, N., et al. [1995,jpn] 50-6789
- Effects of the Exxon Valdez oil spill on subtidal sediments in bays. Page, D.S., et al. [1996,eng] 50-5563
- Effects of widespread use of studless tire on traffic conditions. Horita, N., et al. [1994,jpn] 50-2829
- Environmental effects of the Antonio Gramsci oil spill in 1987. Hirvi, J.P., [1990,eng] 50-469
- Eruption-triggered flood from a glacier-clad volcano in Columbia. Thouret, J.C., et al. [1995,eng] 50-4830
- Extreme warm frontal icing on 25 February 1994 causes an aircraft accident near Uttoxeter. Pike, W.S., [1995,eng] 50-2796
- Exxon Valdez Oil Spill Restoration Plan. Final environmental impact statement. Exxon Valdez Oil Spill Trustee Council, Anchorage, AK. [1994,eng] 50-369
- Exxon Valdez Oil Spill Restoration Plan. Exxon Valdez Oil Spill Trustee Council, Anchorage, AK. [1994,eng] 50-398
- Failures of overhead lines due to ice and wet snow in Serbia. Vučković, Z., et al. [1996,eng] 50-5365
- Fate of oil determinations under arctic conditions: the Komi pipeline oil spill experience. Nadeau, R.J., et al. [1995,eng] 50-5732
- February 1994 ice storm in the southeastern U.S. Lott, J.N., et al. [1996,eng] 50-5372
- Forest dynamics and disturbance in the temperate rainforests of the Americas. Veblen, T.T., et al. [1996,eng] 50-4065
- Forty years of disaster mitigation in Xinjiang. Zhu, L.R., ed. et al. [1993,chi] 50-4166
- Guidebook on debris flow control. Zhou, B.F., ed. et al. [1991,chi] 50-5008
- Ice and snow damage to high voltage overhead lines in Romania. Goia, L.M., et al. [1996,eng] 50-5366
- Ice in the intake causes close call. [1990,eng] 50-3572
- Ice storm management on an electrical utility system. Hall, J.W., [1996,eng] 50-5367
- Inflight icing part II: making hard choices. Steenblik, J.W., [1995,eng] 50-4703
- Introduction to river ice jam floods. Gerard, R.L., et al. [1995,eng] 50-784
- Japanese and snow. Yoshino, M., [1988,jpn] 50-2044
- Komi oil spill—an assessment by a multi-national team. Devénis, P.K., [1995,eng] 50-5731
- Large volume oil spill on land surface: the Vozey oil field, Russia. Zoltai, S.C., et al. [1995,eng] 50-5733
- Major characteristics of snow disaster in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3977
- Meeting of the Avalanche Commission, Autrans, France, 1994. International Commission for Alpine Rescue (French version: Commission Internationale pour le Sauvetage Alpin) (German version: Internationale Kommission für Alpen Rettungswesen). Birchwil, Switzerland, [1995,ita] 50-2599
- Meteorological and snow conditions, avalanches and safety in Bulgarian mountains. Mikhnevski, N., [1995,eng] 50-4665
- Model of snow disaster assessment using NOAA/AVHRR data in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3988
- New environmental database mapping for oil spill response in Alaska. O'Brien, D.K., et al. [1995,eng] 50-5719
- New U.S. rules established for aircraft ground deicing and anti-icing. [1992,eng] 50-3576
- OASIS avalanche database. Gillet, M., [1995,fre] 50-2590
- Observation guidelines and recording standards for weather, snowpack and avalanches. Canadian Avalanche Association, Revelstoke, British Columbia, [1995,eng] 50-852
- Oil spill risks for Copper River Delta in Alaska. Christensen, F.T., et al. [1996,eng] 50-5556
- Overview of the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Hartley, A.E., Sr., [1996,eng] 50-5568
- Pedestrian slipping accidents and their prevention. Kelkka, M., [1995,fin] 50-5507
- Pedestrian slips and falls on icy roads. Takamori, M., et al. [1995,jpn] 50-6794
- Photo-registration of pre- and post-breakdown situations in oil pipelines in Siberia. Eliseev, I.U.B., [1996,rus] 50-6858
- Primer for the avalanche dog leader. [1964,eng] 50-5752
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 18th, Edmonton, Alberta, June 14-16, 1995. [1995,eng] 50-5715
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 19th, Calgary, Alberta, June 12-14, 1996. [1996,eng] 50-5551

Acclimatization

- Proceedings. Arctic and Marine Oilspill Program Technical Seminar, 13th, Edmonton, Alberta, June 6-8, 1990, [1990,eng] 50-466
- Radioecological hazard of ship nuclear reactors sunken in the Arctic. Sivintsev, I.U.V., et al. [1996,eng] 50-5676
- Recent debris flow disaster and its prevention in east Qinghai-Xizang Plateau. Tang, B.X., et al. [1992,chi] 50-1495
- Relation between winter road maintenance and road safety. Sävénhed, H., [1995,eng] 50-5929
- Report of avalanche accident at Pangka in 1995, Khumbu region, Nepal. Yamada, T., et al. [1996,jpn] 50-4928
- Report on radioactivity in the Arctic region. Paakkola, O., [1991,eng] 50-3423
- Response operations on the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Stillings, W.J., [1996,eng] 50-5569
- Risk assessment of offshore oil spills. LaBelle, R.P., [1990,eng] 50-470
- Road surface covered with snow and ice and traffic accidents in Hokkaido. Takagi, H., [1995,jpn] 50-3512
- Shoreline clean-up techniques—Exxon Valdez operations. Nauman, S.A., [1990,eng] 50-478
- Shoreline cleanup following the Exxon Valdez oil spill. Owens, E.H., et al. [1990,eng] 50-476
- Shoreline cleanup following the Exxon Valdez oil spill. Teal, A.R., [1990,eng] 50-477
- Shoreline monitoring following the Exxon Valdez incident. Owens, E.H., et al. [1990,eng] 50-480
- Snow and avalanche. Annual report 1994-95. Colorado Avalanche Information Center. [1995,eng] 50-4308
- Snow disasters and countermeasure against it. Ikarashi, T., [1995,jpn] 50-604
- Snow in the Chilean Andes and its natural hazards. Ugarte G., G., [1995,fre] 50-4690
- Snowmobile injuries in Kiruna, northern Sweden. Sundström, I., et al. [1994,eng] 50-602
- Snowslides in Alta area. Part 1. Shank, H.M., [1996,eng] 50-3240
- Structural failure of the Titanic. Garzke, W.H., Jr., et al. [1994,eng] 50-5177
- Study and analysis of the factors having influence on ice coating of electric wires. Wang, S.L., [1996,eng] 50-5394
- Suggested improvements to oil spill response planning. Owens, E.H., [1990,eng] 50-479
- Summer and autumn avalanches: a neglected hazard. Zuanon, J.P., [1995,fre] 50-4669
- Technology assessment on systems for conquering and exploiting snow. [1987,jpn] 50-2289
- Theoretical model of the transfer of radionuclides (the accident at the Siberian chemical plant). Belov, P.N., [1995,rus] 50-3774
- Urban snow disasters. Higashimura, M., [1988,jpn] 50-2047
- Use of surfactants in oil spill remediation in cold regions. Tumeo, M.A., et al. [1995,eng] 50-5723
- Westwide Avalanche Network. Total snow. Summary by region. Tremper, B., [1996,eng] 50-5928
- WinOil: an oil spill model for Windows 95. McGillivray, D.G., et al. [1996,eng] 50-5555
- Would a helmet law for snowmobile riders reduce head injuries. Björnsig, U., et al. [1994,eng] 50-603
- See [also]: Safety
- Acclimatization**
- Aforestation of larch in autumn. Wang, T.X., et al. [1991,chi] 50-5847
- Antifreeze proteins in winter rye are similar to pathogenesis-related proteins. Hon, W.C., et al. [1995,eng] 50-2853
- Arctic plant chloroplast adaptation to low temperatures. Miroslav, E.A., et al. [1996,eng] 50-6756
- Arcto-alpine and boreal elements in the high altitude flora of north west Himalaya. Gupta, R.K., [1994,eng] 50-5417
- Barley genetic resources on the Qinghai-Xizang Plateau. Xu, T.W., [1992,chi] 50-1492
- Biodiversity and climate in the coastal temperate rainforests of North America. Alaback, P.B., [1996,eng] 50-4063
- Biology of high latitude kelp. Dunton, K.H., et al. [1995,eng] 50-4139
- Carotenoid composition and down regulation in three conifers. Adams, W.W., III, et al. [1995,eng] 50-1137
- CO₂ exchange in some vascular plants inhabiting the polar Urals. Gerasimenko, T.V., et al. [1996,eng] 50-6757
- Cold acclimation of *Arabidopsis thaliana*. Uemura, M., et al. [1995,eng] 50-1462
- Cold acclimation of arctic grass photosynthetic apparatus. Koroleva, O.I.A., [1996,eng] 50-6755
- Cold acclimation of rye leaves during freeze/thaw cycles. Uemura, M., et al. [1995,eng] 50-3343
- Cold acclimatization biochemistry of rapeseed tissues. Smoleńska-Sym, G., et al. [1996,eng] 50-5463
- Collected papers on forest management in the cold temperate zone. Lou, Y.H., ed. et al. [1991,chi] 50-5839
- Copepod adaptability to temperature and salinity in a salt lake. Wang, Z.P., et al. [1989,chi] 50-6777
- Deep supercooling in buds of woody plants. Quamme, H.A., [1995,eng] 50-3280
- Deep supercooling in woody plants and the role of cell wall structure. Wisniewski, M., [1995,eng] 50-3279
- Desiccation of white spruce seedlings planted in the southern boreal forest of British Columbia. Krasowski, M.J., et al. [1995,eng] 50-766
- Dynamics of montane treelines. Slatyer, R.O., et al. [1992,eng] 50-4072

- Early biochemical changes during acclimation of poplar to low temperature. Jouve, L., et al. [1995,eng] 50-3453
- Ecology and decline of red spruce in the eastern United States. Eagar, C., ed. et al. [1992,eng] 50-4049
- Effect of electroporation on intracellular ice formation in rye leaf protoplasts. Chandrasekaran, M., et al. [1995,eng] 50-1465
- Effect of salinity on oxygen metabolism of copepods in a salt lake. Wang, Z.P., [1989,chi] 50-6778
- Effects of plant cellular tissue structure on freezing tolerance. Fujikawa, S., et al. [1996,eng] 50-5675
- Effects of smelter emissions on pine tree frost hardiness. Sutinen, M.L., et al. [1996,eng] 50-4309
- Evaluation of wheat germplasm resources in Xizang. Huang, H.L., et al. [1992,chi] 50-1491
- Freezing tolerance in plants: an overview. Chen, T.H.H., et al. [1995,eng] 50-3277
- Frost damage to northern trees during climatic warming. Hänninen, H., [1996,eng] 50-6631
- Frost resistance of artificially deacclimated pine needles. Taulavuori, K., et al. [1996,eng] 50-4151
- High altitude flora of western Himalaya: peculiarities and conservation. Aswal, B.S., [1994,eng] 50-5421
- Himalaya, its ecology and biogeography: a review. Mani, M.S., [1994,eng] 50-5416
- Isolation and identification of antifreeze protein with high activity in *Ammopiptanthus mongolicus*. Fei, Y.B., et al. [1994,chi] 50-1835
- Perspectives of plant cold tolerance: physiology and molecular responses. Kaye, C., et al. [1995,eng] 50-4085
- Plant communities in alpine habitat with special reference to Garhwal Himalaya. Rawat, D.S., et al. [1994,eng] 50-5420
- Plant tissue protein associated with pine tree frost hardiness. Ekramoddoullah, A.K.M., et al. [1995,eng] 50-1088
- Possible increased toxicity of automobile emissions in cold climates. Perkins, R.A., [1996,eng] 50-6137
- Problems of natural reforestation of Dahurian larch (*Larix gmelinii*). Lou, Y.H., [1991,chi] 50-5842
- Recent advance of the arctic treeline along the eastern coast of Hudson Bay. Lesco-Sinclair, K., et al. [1995,eng] 50-3041
- Relationship between water content and frost tolerance in shoots of hardwood seedlings. Calmé, S., et al. [1996,eng] 50-3296
- Reversible photoinhibition in antarctic moss during freezing and thawing. Lovelock, C.E., et al. [1995,eng] 50-2854
- Roles of ice nucleators in cold tolerant invertebrates. Duman, J.G., et al. [1995,eng] 50-3281
- Second-order dynamic model for the frost hardness of trees. Leinoonen, I., et al. [1995,eng] 50-1146
- Selection of cold-tolerant plants for growth in soils contaminated with organics. Rogers, H.B., et al. [1995,eng] 50-4609
- Sharp and gradual mountain timberlines as a result of species interaction. Armand, A.D., [1992,eng] 50-4073
- Spruce-fir forests of eastern North America. White, P.S., et al. [1992,eng] 50-4050
- Study on shortening the seedling growing period for Dahurian larch (*Larix gmelinii*). Zhang, W.Y., [1991,chi] 50-5841
- Synthesis and conclusions from studies of red spruce decline. Johnson, A.H., et al. [1992,eng] 50-4059
- Tree leaf cell response to cold acclimation. Rajashekar, C.B., et al. [1996,eng] 50-6555
- Variable leaf respiration rates of arctic and subarctic plant leaves. Collier, D.E., [1996,eng] 50-4368
- Vitamin C in the prevention and treatment of frostbite. Purkayastha, S.S., et al. [1992,eng] 50-4224
- Wild flowering plants of the Greater Khingan Range and their value for park projects. Lu, Z., et al. [1991,chi] 50-5852
- Winter injury and developmental cold tolerance of red spruce. DeHayes, D.H., [1992,eng] 50-4057
- See [also]: Cold tolerance; Introduced plants
- Accreted ice**
- See [also]: Ice accretion
- Accumulation**
- See [also]: Snow accumulation
- Accuracy**
- Airborne imaging microwave radiometer—part I: radiometric analysis. Collins, M.J., et al. [1996,eng] 50-4763
- Algorithm to enhance sea ice concentration estimates from radiometric brightness temperatures. St. Germain, K.M., et al. [1992,eng] 50-3564
- Altitude retracking algorithm accuracy for Greenland ice sheet growth. Davis, C.H., [1995,eng] 50-980
- Analysis of interference effects on surface-impedance mapping of glacier thickness. Thiel, D.V., et al. [1996,eng] 50-4889
- Analytical modeling of glacier dynamics. Bahr, D.B., [1996,eng] 50-5023
- Analyzing the accuracy of calculating the surface layer temperature of the Barents Sea. Garbuzov, A.V., [1992,rus] 50-1268
- Artificial peroxides produced during cryogenic sampling of ambient air. Staffebach, T., et al. [1995,eng] 50-1187
- ATLAS instrument characterization: accuracy of the AASE and AAOE nitrous oxide data sets. Loewenstein, M., et al. [1990,eng] 50-6008
- Automated aircraft icing forecast technique project report. Mansur, M.V., [1984,eng] 50-4619
- Automated nowcasting model of road surface temperature and state for winter road maintenance. Shao, J., et al. [1996,eng] 50-6571
- Barents Sea ice concentration from SSM/I data. Smith, D.M., [1996,eng] 50-6695
- Calibration of a small, low-cost thermal infrared radiometer. Rapier, C.B., et al. [1996,eng] 50-6623

- Calibration of radiocarbon ages and the interpretation of paleoenvironmental records. Bartlein, P.J., et al. [1995,eng] 50-2018
- Coherent observation operators for surface data assimilation with application to snow depth. Urban, B., [1996,eng] 50-3008
- Comment on paper by Schaefer et al. Davies, T.D., et al. [1996,eng] 50-3647
- Comments and reply on paper of Venkatesh et al. Marko, J.R., et al. [1995,eng] 50-601
- Comments on "Production of ice particles in clouds due to aircraft penetrations". Mossop, S.C., et al. [1984,eng] 50-4917
- Comments on paper by Dey et al. Ropelewski, C.F., et al. [1984,eng] 50-4916
- Comments on paper by P.S. Anderson. Makkonen, L., et al. [1996,eng] 50-6587
- Comments on the use of chemically based mixing models in glacier hydrology. Sharp, M., et al. [1995,eng] 50-447
- Comparison between neural network and statistical snowfall prediction methods. McGinnis, D.L., [1994,eng] 50-4356
- Comparison between snow cover products derived from visible and microwave satellite observations. Basist, A., et al. [1996,eng] 50-3007
- Comparison criteria for environmental chemical analyses of split samples sent to different laboratories. Grant, C.L., et al. [1996,eng] 50-5912
- Comparison of geostatistical methodologies used to estimate snow water equivalent. Carroll, S.S., et al. [1996,eng] 50-4409
- Comparison of methods used to create estimate of air-freezing index. Steurer, P.M., et al. [1995,eng] 50-360
- Comparison of two techniques for R-value calculation, using winter in-situ data. Flanders, S.N., et al. [1995,eng] 50-1979
- Contrast between natural and simulated snowdrift experiments. Naaim-Bouvet, F., [1995,eng] 50-1063
- Correction of satellite radar altimetry of antarctic ice sheets. Cooper, A.P.R., et al. [1996,eng] 50-5073
- Danger by the numbers—meaningful cold weather indicators. Shacham, M., et al. [1995,eng] 50-1646
- Dating analysis of Norwegian Neoglacal moraines. Mathews, J.A., et al. [1996,eng] 50-4375
- Deep ice stirs debate on climate stability. Monastersky, R., [1993,eng] 50-4800
- Development of a portable ice-thickness measuring instrument. Glynn, D.P., et al. [1992,eng] 50-4908
- Device for measuring pressure. Zinov'ev, V.A., et al. [1992,rus] 50-1921
- Device for measuring the thickness of ice cover. Ilarov, N.A., et al. [1992,rus] 50-1930
- Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al. [1996,eng] 50-4766
- Discussion of paper by Aavik and Chandra. Mather, B., et al. [1995,eng] 50-4501
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1995,eng] 50-4247
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1996,eng] 50-5810
- Earth-gridded SSM/I data set for cryospheric studies and global change monitoring. Armstrong, R.L., et al. [1995,eng] 50-1963
- Effect of freezing of water samples on viable counts of environmental mycobacteria. Iivanainen, E., et al. [1995,eng] 50-1953
- Estimation of aerosol deposition to a snow surface. Sharma, M., et al. [1995,eng] 50-3011
- Evaluation of SMMR satellite-derived snow depth using ground-based measurements. Tait, A., et al. [1996,eng] 50-4016
- Evaluation of the Bridger Range winter cloud seeding experiment using control gages. Super, A.B., et al. [1983,eng] 50-4637
- Evolving description of a fractured carbonate reservoir: the Lisburne Field, Prudhoe Bay, Alaska. Missman, R.A., et al. [1991,eng] 50-1755
- Experiences of wind gauges used for measurements in cold regions. Tammelin, B., [1992,eng] 50-3637
- Frost heave—testing facilities. Kettle, R.J., [1977,eng] 50-2315
- Frost-heave test as a compliance requirement. Sherwood, P.T., [1977,eng] 50-2317
- Further discussion on simulation of the modern arctic climate by the NCAR CCM1. Williamson, D.L., et al. [1996,eng] 50-6573
- General circulation (GCM) modelling of palaeoclimates: a critique. Street-Perrott, F.A., [1991,eng] 50-3303
- Glacial or non-glacial origin for the Bigganjarga tillite, Finnmark, northern Norway. Jensen, P.A., et al. [1996,eng] 50-4395
- Global identification of snowcover using SSM/I measurements. Grody, N.C., et al. [1996,eng] 50-2704
- Grading, degradation and compaction considerations in relation to specimen preparation. Hughes, R., [1977,eng] 50-2316
- Greenland ice sheet thickness changes measured by laser altimetry. Krabill, W., et al. [1995,eng] 50-751
- Handling practice effects on soil sample chemistry. Hewitt, A.D., [1996,eng] 50-5962
- Heated anemometer for atmospheric icing environments. Kenyon, P.R., et al. [1992,eng] 50-3638
- Heaving pressures as a means of assessing frost susceptibility. Kettle, R.J., et al. [1981,eng] 50-2142

Acidity

- How AgI aerosol dispersion may effect cloud seeding detection. Warburton, J.A., et al. [1995,eng] 50-347
- Iceberg detection using ERS-1 synthetic aperture radar. Willis, C.J., et al. [1996,eng] 50-5225
- Implications of glacial deposit physical properties for radiocarbon dating. Karrow, P.F., [1992,eng] 50-2563
- Importance of the correction of precipitation measurements on the Tibetan Plateau. Ueno, K., et al. [1996,eng] 50-5775
- Improved detection of acoustic sources in ice-riding ocean environment. Zala, C.A., et al. [1995,eng] 50-1461
- Inherent variability of frost heave specimens. Nicholls, R.A., [1977,eng] 50-2319
- Intercomparison of mesoscale forecasts of aircraft icing using SSM/I retrievals. Tremblay, A., et al. [1996,eng] 50-4524
- Intercomparisons of sea ice concentration from SSM/I and AVHRR data of the Ross Sea. Zibordi, G., et al. [1995,eng] 50-938
- Interpretation of field measurements for ice engineering applications. Gold, L.W., [1996,eng] 50-5050
- Is there any real evidence for a huge shelf ice sheet in East Siberia? Sher, A., [1995,eng] 50-499
- Last Scottish ice-sheet: facts and speculative discussion. Sissons, J.B., [1981,eng] 50-3620
- Late Holocene snow avalanche activity in southern Norway. McCarroll, D., et al. [1995,eng] 50-3336
- Lead isotopic ratios in Greenland and antarctic snow and ice. Chisholm, W., et al. [1995,eng] 50-1256
- Lichenometric dating of alpine Little Ice Age moraines. Winkler, S., et al. [1995,ger] 50-3396
- Lichenometric dating of arctic/alpine slope processes. McCarroll, D., [1993,eng] 50-847
- Light scattering effects on cloud thickness photometry. Zege, E.P., et al. [1994,eng] 50-2710
- Limiting resolution of ice-sheet elevations derived from pulse-limited satellite altimetry. Wingham, D.J., [1995,eng] 50-461
- Links between the lowest observed frequencies and errors in their forecasting at high latitudes. Ignatov, V.S., et al. [1991,rus] 50-2266
- Liquefaction resistance of silty sand based on in situ frozen samples. Yoshimi, Y., et al. [1996,eng] 50-5080
- Meaningful wind chill indicators derived from heat transfer principles. Brauner, N., et al. [1995,eng] 50-1552
- Method of calculating the sensitivity and instrument accuracy of borehole temperature equipment. Pakulin, V.A., [1983,rus] 50-317
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- Proceedings. Colloquium on Frost Heave Testing and Research. Nottingham, England, May 18, 1977. [1977,eng] 50-2311
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- Snow surveying in Canada: a perspective. Goodison, B.E., et al. [1987,eng] 50-4907
- Soil sample compaction degradation related to grading variations. Pike, D.C., [1977,eng] 50-2321
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- Geocryological conditions of the eastern Bambuyka basin. Znamenskiy, E.N., [1983,rus] 50-316
- Geocryological studies in arctic regions, Vol.3, part 2: Stability of processes occurring in frozen soils. Geokriologicheskoe issledovanie v arkticheskikh rajonakh: mezhdunarodnyy simpozium. SSSR, Iamburg, August 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, August 1989). [1990,rus] 50-1608
- Ground temperature of permafrost active layer in the Fugleberget catchment basin. Kamiński, A., et al. [1993,eng] 50-2203
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- II International Conference on Permafrost (USSR, Yakutsk. 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk July 16-28, 1973. [1973,rus] 50-5139
- Implications of frost heave for patterned ground, Tibet Plateau. China. Wang, B.L., et al. [1995,eng] 50-2808
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Dual-polarization airborne lidar observations of polar stratospheric cloud evolution. Poole, L.R., et al, [1990.eng] 50-5990
Geomorphological mapping by remote sensing in Spitsbergen. Ståblein, G., et al, [1994.ger] 50-1583
Global warming cuts no ice in Greenland. Gribbin, J., [1995.eng] 50-1966
Greenland ice sheet thickness changes measured by laser altimetry. Krabill, W., et al, [1995.eng] 50-751
Greenland ice sheet thickness changes measured by laser altimetry. Thomas, R., et al, [1993.eng] 50-4803
Heterogeneous conversion of COF₂ to HF in polar stratospheric clouds. Wofsy, S.C., et al, [1990.eng] 50-6004
Ice crystal optical properties of cirrus clouds. Gayet, J.F., et al, [1996.eng] 50-3684
Icing conditions encountered by a research aircraft. Sand, W.R., et al, [1984.eng] 50-4493
Improved airborne laser fluorosensor for assessment of marine pollution. Dick, R., et al, [1990.eng] 50-472
In situ measurements of BrO in the arctic stratosphere. Toohy, D.W., et al, [1990.eng] 50-6015
In situ measurements of NO₂ in the Airborne Arctic Stratospheric Expedition. Carroll, M.A., et al, [1990.eng] 50-6011
Incorporating airborne data into the spatial model used to estimate snow water equivalent. Carroll, S.S., et al, [1993.eng] 50-5146
Investigation of the surface condition in Taklimakan Desert. Tsuchiya, K., et al, [1991.jpn] 50-1426
Lidar measurements of arctic polar ozone depletion. Wirth, M., et al, [1996.eng] 50-5286
Lidar observation of wintertime polar stratospheric clouds. Browell, E.V., et al, [1990.eng] 50-5989
Lidar observations of polar stratospheric cloud growth. Poole, L.R., et al, [1988.eng] 50-4634

Aerodynamic test facilities

- Loss of ozone in the arctic vortex for the winter of 1989. Salawitch, R.J., et al. [1990,eng] 50-6027
- Measurements of total reactive nitrogen during the Airborne Arctic Stratospheric Expedition. Kawa, S.R., et al. [1990,eng] 50-6009
- Method of interpreting rock streams from aerial photographs (AFS). Ryzhikh, A.M., et al. [1993,rus] 50-116
- Monitoring winter hydrologic characteristics of lakes by microwave radiometry. Bordonkii, G.S., et al. [1995,eng] 50-1402

- N₂O as a dynamical tracer in the arctic vortex. Loewenstein, M., et al. [1990,eng] 50-6007
- Near UV polar stratospheric absorption measurements. Wahner, A., et al. [1990,eng] 50-6012
- Nitric acid in polar stratospheric clouds. Pueschel, R.F., et al. [1990,eng] 50-5997
- Nitric oxide measurements in the arctic winter stratosphere. Fahey, D.W., et al. [1990,eng] 50-6010
- Observational and theoretical studies of solar radiation in arctic stratus clouds. Herman, G.F., et al. [1984,eng] 50-4913
- Observed particle evolution in the polar stratospheric cloud of January 24, 1989. Dye, J.E., et al. [1990,eng] 50-5996
- Physical characteristics of arctic stratus clouds. Tsay, S.C., et al. [1984,eng] 50-4922
- Picking out the pack ice from the air [1989,eng] 50-5645
- Polar stratospheric cloud event of January 24: part 2, photochemistry. Jones, R.L., et al. [1990,eng] 50-6022
- Polar stratospheric cloud event, 1989, pt.1. Poole, L.R., et al. [1990,eng] 50-6021
- Polar stratospheric radiation absorption measurements, pt.3. Wahner, A., et al. [1990,eng] 50-6016
- Polar vortex edge definition from stratospheric lidar data. Dameris, M., et al. [1995,eng] 50-346
- Propagation of sound from a moving airborne source in an ice-covered ocean. Grudskii, S.M., et al. [1996,eng] 50-4626
- Radiometry of Scandinavian atmospheric chemistry. Wehr, T., et al. [1995,eng] 50-1332
- Recent responses of Chilean glaciers to climatic changes. Holmlund, P., et al. [1995,eng] 50-1868
- Reconstruction of O₃ and N₂O fields from ER-2, DC-8, and balloon observations. Lait, L.R., et al. [1990,eng] 50-6017
- Redistribution of reactive odd nitrogen in the lower arctic stratosphere. Hubler, G., et al. [1990,eng] 50-6002
- Relative humidity influences on cirrus cloud ice crystal formation. Heymsfield, A.J., et al. [1995,eng] 50-3259
- Remote sensing of oil spills. Fingas, M.F., [1990,eng] 50-473
- Rocket-borne spectrometry of arctic stratospheric chemistry. Schlager, H., et al. [1990,eng] 50-5998
- SAM II and lidar aerosol profile comparisons during AASE. Osborn, M.T., et al. [1990,eng] 50-5993
- Stratospheric constituent trends from ER-2 profile data. Schoeberl, M.R., et al. [1990,eng] 50-6005
- Topographic and thematic maps of the Spitsbergen Expedition, 1990-1992. Brunner, K., et al. [1994,ger] 50-1575
- Using multiple data sources to enhance photogrammetry for mapping antarctic terrain. Fox, A.J., [1995,eng] 50-5536
- Using satellite photography in geocological studies in the cryolithosphere. Gavrillo, A.V., et al. [1996,rus] 50-6857
- Velocity measurement of glacial flow with aerial photogrammetry. Hofmann, W., [1958,ger] 50-5078
- See [also]: Infrared reconnaissance; Spaceborne photogrammetry

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See [also]: Wind tunnels

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- 1-D model of the formation and evolution of polar stratospheric clouds. Panegrossi, G., et al. [1996,eng] 50-3812
- 10-century comparison of prominent bipolar volcanic events in ice cores. Langway, C.C., Jr., et al. [1995,eng] 50-583
- 110,000-yr record of explosive volcanism from the GISP2 (Greenland) ice core. Zielinski, G.A., et al. [1996,eng] 50-4575
- 130 years deposition record of sulfate, nitrate and chloride from a high-alpine glacier. Döschner, A., et al. [1995,eng] 50-4079
- Acid aerosols in rime on Kyushu, Japan. Nagafuchi, O., et al. [1995,eng] 50-4957
- Acid pollutants in air and precipitation/deposition at the Sudeten Mountains, Poland. Kmiec, G., et al. [1995,eng] 50-4954
- Adsorption and ionization of HCl on an ice surface. Banham, S.F., et al. [1996,eng] 50-5940
- Adsorption model of polar stratospheric cloud physics. Henson, B.F., et al. [1996,eng] 50-5460
- Aerial component of the soil-formation substrate in the southern part of the Maritime Territory. Elpatovskii, P.V., et al. [1995,eng] 50-3876
- Aerosol deposition to an alpine tundra ecosystem. Sievering, H., et al. [1996,eng] 50-5964
- Aerosol uptake by model polar stratospheric cloud surfaces. Graham, J.D., et al. [1996,eng] 50-4144
- Aerosol-stratus cloud parameterization for middle and high latitudes. Olsson, P.Q., et al. [1996,eng] 50-5280
- Aerosols composition over the Arctic Ocean. Shevchenko, V.P., et al. [1995,eng] 50-2061
- Aerosols used as tracers for stratosphere-troposphere exchange in the Arctic. Poltescu, V.L., et al. [1995,eng] 50-777
- Age of carbon black atmospheric aerosols over Finland. Raunemaa, T., et al. [1996,eng] 50-5257
- Airborne hydrogen peroxide measurements in supercooled clouds. Snider, J.R., et al. [1995,eng] 50-2114
- Airborne Polar Experiment. CNR Direzione Centrale Attività Scientifiche, [1994,eng] 50-6197

- Airborne studies of submicron aerosol in the troposphere over West Siberia. Panchenko, M.V., et al. [1996,eng] 50-5281
- Aircraft-generated aerosols and visible contrails. Kärcher, B., [1996,eng] 50-6544
- Albedo of dirty snow during conditions of melt. Conway, H., et al. [1996,eng] 50-5969
- ALOMAR—a new facility for middle atmosphere research at arctic latitudes. Thrane, E.V., et al. [1995,eng] 50-4261
- Analysis of lidar observations of polar stratospheric clouds. Toon, O.B., et al. [1990,eng] 50-5991
- Analysis of long term sulfate and nitrate budgets in a Rocky Mountain basin. Baron, J.S., et al. [1995,eng] 50-2417
- Antarctic stratospheric spectroscopy using N₂O observations. Crewell, S., et al. [1995,eng] 50-1329
- Arctic 'greenhouse effect'. Blanchet, J.P., et al. [1994,eng] 50-5034
- Arctic and antarctic ozone depletion inferred from radiometric soundings. MacKenzie, I.A., et al. [1996,eng] 50-5768
- Arctic atmospheric aerosol number size distributions. Covert, D.S., et al. [1996,eng] 50-4315
- Arctic atmospheric composition during episodic air pollution. Lejnas, H., et al. [1996,eng] 50-6710
- Arctic atmospheric particle measurements from forward scattering spectrometer. Dye, J.E., et al. [1990,eng] 50-5995
- Arctic atmospheric particle measurements from forward scattering spectrometer. Dye, J.E., et al. [1990,eng] 50-5995
- Arctic haze phenomenon. Shaw, G.E., [1995,eng] 50-4569
- Arctic Ocean dimethyl sulfide seasonal variability. Leck, C., et al. [1996,eng] 50-4313
- Arctic ozone hole—a myth or a possibility. Singh, O.N., et al. [1995,eng] 50-4529
- Arctic polar stratospheric cloud observations by airborne lidar. McCormick, M.P., et al. [1990,eng] 50-5988
- Arctic stratospheric aerosol distribution. Brune, W.H., et al. [1990,eng] 50-6014
- Arctic stratospheric cloud and temperature variations, 1989. Hofmann, D.J., [1990,eng] 50-5985
- ATLAS instrument characterization: accuracy of the AASE and AAOE nitrous oxide data sets. Loewenstein, M., et al. [1990,eng] 50-6008
- Atmospheric aerosol in the Finnish Arctic. Virkkula, A., et al. [1995,eng] 50-4952
- Atmospheric aerosol in Tomsk. Zuev, V.V., [1996,eng] 50-5285
- Atmospheric aerosol turbidity over polar regions. Radionov, V.F., et al. [1995,eng] 50-6326
- Atmospheric bromine in the Arctic. Berg, W.W., et al. [1983,eng] 50-3650
- Atmospheric carbon emission from North Asian lakes: a factor of global significance. Semiletov, I.P., et al. [1996,eng] 50-5609
- Atmospheric chemistry changes versus past climate inferred from polar ice cores. Legrand, M., [1995,eng] 50-1643
- Atmospheric deposition at Niwot Ridge, CO. Rusch, D., et al. [1995,eng] 50-2395
- Atmospheric transport effects on arctic stratospheric chemistry. Yanteau, J.H., et al. [1990,eng] 50-6020
- Atomic emission spectrometry of Greenland snow lead impurities. Kobiński, R., et al. [1995,eng] 50-4082
- Background stratospheric aerosol and polar stratospheric cloud reference models. McCormick, M.P., et al. [1996,eng] 50-6712
- Balloon sounding of arctic stratospheric chemistry. Kondo, Y., et al. [1990,eng] 50-5999
- Biogeochemistry of heavy metals in the Arctic. Dobrovolskii, V.V., [1995,rus] 50-3971
- Biomass burning recorded in the GISP2 ice core: a record from eastern Canada? Taylor, K.C., et al. [1996,eng] 50-4370
- Biomass burning signatures in Greenland snow and atmosphere. Dibb, J.E., et al. [1996,eng] 50-3152
- Bismuth in recent snow from central Greenland: preliminary results. Candelone, J.P., et al. [1995,eng] 50-779
- Boundary-layer ozone depletion as seen in the Norwegian arctic in spring. Solberg, S., et al. [1996,eng] 50-4152
- Bromine-chlorine coupling in the antarctic ozone hole. Danilin, M.Y., et al. [1996,eng] 50-3065
- Bursts of cloud condensation nuclei (CCN) by dissipating clouds at Palmer Station, Antarctica. Saxena, V.K., [1996,eng] 50-3602
- Calculations of ozone destruction during the 1988/89 arctic winter. McKenna, D.S., et al. [1990,eng] 50-6025
- Can inorganic chemical species volatilize from snow. Cragin, J.H., et al. [1995,eng] 50-2393
- Changes in trace element speciation in Kola north surface waters during snow melt. Rodushkin, I.V., et al. [1995,eng] 50-4080
- Chemical and physical conversion in cold atmosphere and the effect of radiation. Kulmala, M., et al. [1994,eng] 50-3187
- Chemical characterization of individual aerosol particles in central Siberia. Van Malderen, H., et al. [1996,eng] 50-4966
- Chemical variations between polar stratospheric cloud phases. Ravishankara, A.R., et al. [1996,eng] 50-3443
- Chlorine budget of the lower polar stratosphere. Shindell, D.T., et al. [1995,eng] 50-3091
- Chlorine monoxide in the antarctic spring vortex, pt.2. Shindell, D.T., et al. [1996,eng] 50-3018
- Climatology of high-latitude air pollution as illustrated by Fairbanks and Anchorage, Alaska. Bowling, S.A., [1986,eng] 50-4910
- Cloud condensation nuclei over the Arctic Ocean in early spring. Hegg, D.A., et al. [1995,eng] 50-348

- Comment on paper by Chipperfield et al. Schüller, C., et al. [1996,eng] 50-5462
- Comparison between arctic and antarctic polar stratospheric clouds. Dye, J.E., et al. [1996,eng] 50-6542
- Complex refractive indices in the infrared of nitric acid trihydrate aerosols. Richwine, L.J., et al. [1995,eng] 50-1188
- Concentration changes of MSA and major ions in arctic aerosols during polar sunrise. Suzuki, K., et al. [1995,eng] 50-3251
- Condensation nuclei production in the arctic polar vortex. Wilson, J.C., et al. [1990,eng] 50-5983
- Contribution to the hydrological and hydrochemical response of mountain basins. Babiaková, G., et al. [1994,eng] 50-3670
- Contributions of snow and fog to Greenland ice sheet ionic variations. Bergin, M.H., et al. [1995,eng] 50-586
- Coupling PIXE and SEM/EDAX for characterizing atmospheric aerosols in ice-cores. Laj, P., et al. [1996,eng] 50-6324
- Decadal evolution of the antarctic ozone hole. Jiang, Y., et al. [1996,eng] 50-5253
- Denitrification mechanisms in the polar stratospheres. Toon, O.B., et al. [1990,eng] 50-6001
- Deposit of atmospheric biphenyls in the Canadian Arctic. Gregor, D., et al. [1996,eng] 50-6521
- Deposition around a coal-fired power station during a winter-time precipitation event. Jylhä, K., [1995,eng] 50-4953
- Detection of air pollution at a Svalbard mountain station. Beine, H.J., et al. [1996,eng] 50-5205
- Dimethyl sulfide in the arctic atmosphere. Ferek, R.J., et al. [1995,eng] 50-2850
- Distribution of hydrogen peroxide in surface snow over antarctic ice sheet. Kamiyama, K., et al. [1996,eng] 50-3452
- Distributions of volcanic aerosols in antarctic polar stratospheric clouds. Adriani, A., et al. [1995,eng] 50-2848
- Dry depositional loading of nitrogen to an alpine snowpack, Niwot Ridge, Colorado. Cress, R.G., et al. [1995,eng] 50-2396
- Dual-polarization airborne lidar observations of polar stratospheric cloud evolution. Poole, L.R., et al. [1990,eng] 50-5990
- Earth's atmospheric record in ice cores. Bouton, C.F., [1995,eng] 50-5069
- Ecogeochemical investigations, Kola Peninsula: sulphur and trace element content in snow. Äyräs, M., et al. [1995,eng] 50-4081
- Effect of dynamical mixing in a simple model of the ozone hole. Edouard, S., et al. [1996,eng] 50-6332
- Effect of ethanol additives on odor detection of Alaskan gasolines. Zhao, X.H., et al. [1995,eng] 50-3393
- Effect of volcanic aerosols on ultraviolet radiation in Antarctica. Tsitas, S.R., et al. [1996,eng] 50-3066
- Effects of smelter emissions on pine tree frost hardness. Sutinen, M.L., et al. [1996,eng] 50-4309
- Equilibrium constant for the reaction of ClO + O₂ ↔ ClO₂. Demore, W.B., [1990,eng] 50-4732
- Estimates of Greenland atmospheric impurity variations during deglaciation. Alley, R.B., et al. [1995,eng] 50-1872
- Estimation of aerosol deposition to a snow surface. Sharma, M., et al. [1995,eng] 50-3011
- Evaluation of the changes in regional wintertime deposition in Finland during 1976-1993. Sovieri, J., et al. [1995,eng] 50-4956
- Evidence for midwinter chemical ozone destruction over Antarctica. Vömel, H., et al. [1995,eng] 50-754
- Evidence for the removal of gaseous HNO₃ inside the arctic polar vortex in January 1992. Höpfner, M., et al. [1996,eng] 50-3064
- Evidence of arctic-wide atmospheric aerosols from DMSP visible imagery. Shine, K.P., et al. [1994,eng] 50-4494
- Evidence of mechanism for polar stratospheric cloud dehydration. Gandrud, B.W., et al. [1990,eng] 50-6003
- First observational evidence for condensation of 10's SO₂ atmosphere on the nightside. Buratti, B.J., et al. [1995,eng] 50-2154
- First results of ¹⁵N/¹⁴N ratios in nitrate from alpine and polar ice cores. Freyer, H.D., et al. [1996,eng] 50-3724
- Forest fire records inferred from Greenland ice core chemistry. Legrand, M., et al. [1996,eng] 50-3447
- Formation of nitric acid hydrates—a chemical equilibrium approach. Smith, R.H., [1990,eng] 50-4728
- Formation of polar stratospheric clouds on preactivated background aerosols. Zhang, R.Y., et al. [1996,eng] 50-6510
- Freeze protection of Florida citrus with microsprinkler irrigation. Parsons, L.R., et al. [1995,eng] 50-3074
- Genotoxicity of snow in the Montreal metropolitan area. White, P.A., et al. [1995,eng] 50-1567
- Global three-dimensional constituent fields derived from profile data. Douglass, A.R., et al. [1990,eng] 50-6018
- Greenland atmospheric aerosol composition during a foehn. Kikuchi, K., et al. [1996,eng] 50-6216
- Greenland ice core sediments correlated with oceanic sediments. Grönvold, K., et al. [1995,eng] 50-1251
- Ground-based aerosol measurements at Arrival Heights, Antarctica. Kreher, K., et al. [1996,eng] 50-6681
- Growth of acidic polar stratospheric aerosols. Hamill, P., et al. [1996,eng] 50-4311
- Halocarbon seasonal variations in the arctic troposphere. Yokouchi, Y., et al. [1996,eng] 50-5612
- Heavy metal concentrations in peat profiles from the high Arctic. Headley, A.D., [1996,eng] 50-3721
- Heterogeneous atmospheric bromine chemistry. Lary, D.J., et al. [1996,eng] 50-3019

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- Heterogeneous chemistry of polar stratospheric clouds. Mather, J.H., et al. [1990,eng] 50-4726
- Heterogeneous interactions of aerosol radicals on simulated cloud ice surface. Cooper, P.L., et al. [1996,eng] 50-4142
- Heterogeneous interactions of stratospheric aerosols. Abbott, J.P.D., [1996,eng] 50-6512
- High-latitude climate change with an atmospheric coupled sea ice model. Washington, W.M., et al. [1996,eng] 50-6055
- High-resolution ammonium ice core record covering a complete glacial-interglacial cycle. Fuhrer, K., et al. [1996,eng] 50-3448
- Historical records of fatty acids in an ice core from Site-J, Greenland. Kawamura, K., et al. [1995,eng] 50-3247
- How AgI aerosol dispersion may effect cloud seeding detection. Warburton, J.A., et al. [1995,eng] 50-347
- Hydrogen species partitioning in the arctic stratosphere. Schiller, C., et al. [1996,eng] 50-5766
- Ice forming nuclei in the high Arctic. Bigg, E.K., [1996,eng] 50-4317
- Ice loss. Rice, D., [1996,eng] 50-5083
- Ice-crystal fogs of central Sakha. Osipov, D.A., [1995,eng] 50-4702
- Impact of heterogeneous reactions on stratospheric chemistry of the Arctic. Douglass, A.R., et al. [1989,eng] 50-4708
- Impact of stratospheric flight on ozone. Piani, G., et al. [1995,eng] 50-557
- In situ measurements of BrO in the arctic stratosphere. Toohay, D.W., et al. [1990,eng] 50-6015
- In situ measurements of NO₂ in the Airborne Arctic Stratospheric Expedition. Carroll, M.A., et al. [1990,eng] 50-6011
- Influence of forest fire aerosols on sampling of polar atmospheres. Polissar, A.V., et al. [1996,eng] 50-5206
- Influence of the growth mechanisms of snow particles on their chemical composition. Takahashi, T., et al. [1996,eng] 50-5610
- Infrared absorption coefficients of gaseous chlorine nitrate at 296 K. Tuazon, E.C., et al. [1989,eng] 50-4709
- Infrared measurement of arctic atmospheric chemical species. Wetzel, G., et al. [1995,eng] 50-2115
- Interaction of arctic fogs with aerosols. Nilsson, E.D., et al. [1996,eng] 50-4318
- Interaction of peroxyacetic acid with solid H₂O ice. Li, Z.J., et al. [1996,eng] 50-4350
- Interpretation of nitric oxide profile observed in January 1992 over Kiruna. Kondo, Y., et al. [1996,eng] 50-6637
- Ion chemistry controls for a Chinese river. Williams, M.W., et al. [1995,eng] 50-2604
- Ion-induced nucleation around radon daughters in remote arctic maritime air. Bigg, E.K., [1996,eng] 50-4322
- Ionisation and solvation of stratospherically relevant molecules on ice films. Banham, S.F., et al. [1995,eng] 50-5959
- Iron(II) in rainwater, snow, and surface seawater from a coastal environment. Zhuang, G.S., et al. [1995,eng] 50-979
- Isotopic tracing of nitrate sources in snowmelt runoff. Kendall, C., et al. [1995,eng] 50-2426
- Kinetic measurements of the ClO + O₃ → ClOO + O₂ reaction. Stevens, P.S., et al. [1990,eng] 50-4727
- Laboratory simulation of polar stratospheric cloud formation. Iraci, L.T., et al. [1995,eng] 50-1333
- Lake acidification during mountain snowmelt. Stoddard, J.L., [1995,eng] 50-4076
- Lichen accumulation of airborne metals adjacent to a lead-zinc mine. Pilegaard, K., [1994,eng] 50-5604
- Lidar of Canadian arctic stratospheric ozone. Donovan, D.P., et al. [1995,eng] 50-3095
- Light scattering effects on cloud thickness photometry. Zege, E.P., et al. [1994,eng] 50-2710
- Long-range tropospheric transport of pollution aerosols into the Alaskan Arctic. Raatz, W.E., et al. [1984,eng] 50-4722
- Low ozone concentrations in mid-latitude ice clouds. Reichardt, J., et al. [1996,eng] 50-6543
- Low-temperature photochemistry of submicrometer nitric acid and ammonium nitrate layers. Koch, T.G., et al. [1996,eng] 50-6682
- Manganese and other trace elements in urban snow near an expressway. Loranger, S., et al. [1996,eng] 50-5776
- Measurements of Alaskan spring atmospheric ozone content. Beine, H.J., et al. [1996,eng] 50-6640
- Measurements of nitrogen oxides in the Arctic. Honrath, R.E., et al. [1990,eng] 50-6028
- Measurements of total reactive nitrogen during the Airborne Arctic Stratospheric Expedition. Kawa, S.R., et al. [1990,eng] 50-6009
- Mechanisms of direct and indirect climate forcing by aerosols in the arctic region. Blanchet, J.P., [1995,eng] 50-1642
- Meteorological observations at Showa Station by JARE-33 in 1992. Matsuhara, K., et al. [1995,jpn] 50-4554
- Microclimatic models, estimation of solar radiation and evaporation over land surfaces. Heikinheimo, M., et al. [1994,eng] 50-3186
- Model calculations of ozone depletion in the arctic polar vortex for 1991/92 to 1994/95. Chipperfield, M.P., et al. [1996,eng] 50-3551
- Model for measuring PAH deposits on snow. Sharma, M., et al. [1995,eng] 50-3037
- Model of arctic air pollution by sulfur aerosols. Dastoor, A.P., et al. [1996,eng] 50-5450
- Model of arctic radiation fog trace gas processing. Bergin, M.H., et al. [1996,eng] 50-5764
- Model of wintertime stratospheric circulation. Eluszkiewicz, J., et al. [1995,eng] 50-1330
- Model study of polar stratospheric clouds, pt.2. Tie, X.X., et al. [1996,eng] 50-6639
- Monitoring organic pollutants in the Arctic in 1992. Fellin, P., et al. [1996,eng] 50-4359
- N₂O as a dynamical tracer in the arctic vortex. Loewenstein, M., et al. [1990,eng] 50-6007
- Near UV polar stratospheric absorption measurements. Wahner, A., et al. [1990,eng] 50-6012
- Nitric acid in polar stratospheric clouds. Pueschel, R.F., et al. [1990,eng] 50-5997
- Nitric oxide measurements in the arctic winter stratosphere. Fahey, D.W., et al. [1990,eng] 50-6010
- Nitrogen deposition and release in alpine watersheds. Loch Vale, Colorado, USA. Campbell, D.H., et al. [1995,eng] 50-2416
- North Polar stratospheric cloud dynamics. Rosen, J.M., et al. [1990,eng] 50-4723
- Numerical modeling of heterogeneous ozone depletion in polar stratospheric clouds. Smyshliaev, S.P., [1994,eng] 50-2109
- Nutrient and persistent pollutant deposition on the Bothnian Bay ice and snow fields. Rahm, L., et al. [1995,eng] 50-1650
- O₃ and NO₂ fluxes over snow measured by eddy correlation. Stocker, D.W., et al. [1995,eng] 50-2151
- Observation of a new absorption band of HOBr and its atmospheric implications. Barnes, R.J., et al. [1996,eng] 50-3968
- Observational studies of the role of polar regions in mid-latitude ozone loss. Jones, R.L., et al. [1995,eng] 50-3094
- Observed particle evolution in the polar stratospheric cloud of January 24, 1989. Dye, J.E., et al. [1990,eng] 50-5996
- On the age of stratospheric air and inorganic chlorine and bromine release. Daniel, J.S., et al. [1996,eng] 50-6331
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995,eng] 50-1866
- On the formation of electron depletions at the summer polar mesopause. Klostermeyer, J., [1996,eng] 50-3600
- Optical backscatter characteristics of arctic polar stratospheric clouds. Kent, G.S., et al. [1990,eng] 50-5987
- Origin of tropospheric ozone at remote high northern latitudes in summer. Mauzerall, D.L., et al. [1996,eng] 50-3449
- Ottawa firm makes wastewater 'white as snow'. Kneisel, S., [1996,eng] 50-6744
- Overview of the Arctic Ocean Expedition of 1991 (IAOE-91). Leck, C., et al. [1996,eng] 50-4312
- Oxidation of S(IV) during riming by cloud droplets. Iribarne, J.V., et al. [1995,eng] 50-1103
- Ozone and aerosol correlated observations at Thule, Greenland, in the period 1991-1994. Di Sarra, A., et al. [1995,eng] 50-2849
- Ozone deposition in a snow-covered subalpine spruce-fir forest environment. Zeller, K., et al. [1995,eng] 50-2394
- Ozone deposition in a subarctic woodland, pt.1. Munger, J.W., et al. [1996,eng] 50-6641
- Paleoecological study of fire-induced lake water acidity variations. Korhola, A., et al. [1996,eng] 50-5020
- Periodic variations in air-water gas exchange of Arctic Ocean insecticide pollutants. Jantunen, L.M., et al. [1995,eng] 50-1862
- Pesticide degradation in an arctic lake and watershed. Falconer, R.L.M., et al. [1995,eng] 50-1131
- Phase transitions of water films adsorbed on pyrogenic silica. Bogdan, A., et al. [1996,eng] 50-2021
- Photodissociation of condensed films of chlorine dioxide. Lanzendorf, E.J., et al. [1996,eng] 50-6679
- Photometry of Mt. Piatobut aerosols at Spitsbergen. Beyerle, G., et al. [1995,eng] 50-1183
- Photooxidants in the marine arctic troposphere in summer. Weller, R., et al. [1996,eng] 50-5255
- Plausible hydrological scenario for the Bölling-Allerød atmospheric methane increase. Kalin, R.M., et al. [1996,eng] 50-4376
- Polar clouds and sulfate aerosols. Tolbert, M.A., [1996,eng] 50-5066
- Polar ice stratigraphy from laser-light scattering: scattering from ice. Ram, M., et al. [1995,eng] 50-3098
- Polar Ozone and Aerosol Measurement instrument. Glacium, W., et al. [1996,eng] 50-5765
- Polar stratospheric cloud event of January 24: part 2, photochemistry. Jones, R.L., et al. [1990,eng] 50-6022
- Polar stratospheric cloud influence on arctic atmospheric chemistry. Jones, R.L., et al. [1990,eng] 50-6023
- Polar stratospheric radiation absorption measurements, pt.2. Schiller, C., et al. [1990,eng] 50-6013
- Polar stratospheric radiation absorption measurements, pt.3. Wahner, A., et al. [1990,eng] 50-6016
- Polar vortex edge definition from stratospheric lidar data. Dammeris, M., et al. [1995,eng] 50-346
- Pollution of natural ice in the Arctic and its indications. Ivanov, A.V., [1989,rus] 50-2301
- Pressure dependence of the reaction between ClO and ClO at 226K. Parr, A.D., et al. [1990,eng] 50-4733
- Proceedings. Atmospheric Radiation Measurement (ARM) Science Team Meeting, 5th. San Diego, CA, Mar. 19-23, 1995, [1996,eng] 50-5274
- Proceedings. International Symposium on Biogeochemistry of Seasonally Snow-covered Catchments, Boulder, CO, July 1-14, 1995, [1995,eng] 50-2391
- PSC nucleation hindered by H₂SO₄·H₂O. Koop, T., et al. [1996,eng] 50-5068
- Radiative effects of polar stratospheric clouds. Kinne, S., et al. [1990,eng] 50-5986
- Radiometry of Scandinavian atmospheric chemistry. Wehr, T., et al. [1995,eng] 50-1332
- Reaction probabilities of ClONO₂ and N₂O₅ on polar stratospheric cloud materials. Hanson, D.R., et al. [1991,eng] 50-3649
- Reactivity of ClONO₂ on H₂¹⁸O ice and organic liquids. Hanson, D.R., [1995,eng] 50-1416
- Recent air pollution variations inferred from Greenland ice sheet heavy metal concentrations. Candelone, J.P., et al. [1995,eng] 50-590
- Reconstruction of O₃ and N₂O fields from ER-2, DC-8, and balloon observations. Lait, L.R., et al. [1990,eng] 50-6017
- Record low ozone at McMurdo Station in spring of 1993. Johnson, B.J., et al. [1994,eng] 50-4238
- Redistribution of reactive odd nitrogen in the lower arctic stratosphere. Hübler, G., et al. [1990,eng] 50-6002
- Relationship between atmospheric circulation and antarctic ozone depletion. Butchart, N., et al. [1996,eng] 50-3963
- Relationship between atmospheric composition and snow composition for HCl and HNO₃. Dominé, F., et al. [1995,eng] 50-2392
- Release of volatile halogenated organic compounds by unialgal cultures of polar macroalgae. Laturmus, F., [1995,eng] 50-1202
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- Report on radioactivity in the Arctic region. Paakkola, O., [1991,eng] 50-3423
- River pollution of Russian northern seas. Rovinskiĭ, F.I.A., et al. [1995,eng] 50-6548
- Rocket flight cloud seeding during hail suppression experiments. Lacaux, J.P., et al. [1995,eng] 50-4971
- Rocket-borne spectrometry of arctic stratospheric chemistry. Schlager, H., et al. [1990,eng] 50-5998
- Role of droplet composition in polar stratospheric cloud freezing. Meilinger, S.K., et al. [1995,eng] 50-4874
- Role of electrified ice meltwater in thunderstorms. Kamra, A.K., et al. [1984,eng] 50-4923
- Runoff composition in a bedrock catchment watershed. Clow, D.W., et al. [1995,eng] 50-2415
- SAGE II observations of polar stratospheric clouds near 50°N January 31-February 2, 1989. Pits, M.C., et al. [1990,eng] 50-5994
- Saharan dust recorded in Swiss alpine snow cover. Schwikowski, M., et al. [1995,eng] 50-778
- SAM II aerosol measurements during the 1989 AASE. Osborn, M.T., et al. [1990,eng] 50-5992
- SAM II and lidar aerosol profile comparisons during AASE. Osborn, M.T., et al. [1990,eng] 50-5993
- Satellite monitoring of antarctic stratosphere volcanic aerosols. Saxena, V.K., et al. [1995,eng] 50-591
- Satellite observation of arctic ozone depletion. Müller, R., et al. [1996,eng] 50-6636
- Sea-air exchange of sulfur, phosphorus, and nitrogen in marine aerosols over the Antarctic Peninsula waters. Chen, L.Q., et al. [1989,chi] 50-6775
- Seasonal aerosol variability in the arctic marine boundary layer. Leck, C., et al. [1996,eng] 50-4320
- Seasonal cycle of C₂-C₃ hydrocarbons over the Baltic Sea and northern Finland. Laurila, T., et al. [1996,eng] 50-5607
- Seasonal variability in high mountain lake water chemistry. Wögrath, S., et al. [1995,eng] 50-4077
- Simple model to estimate atmospheric concentrations of aerosol chemical species based on snow core chemistry at Summit, Greenland. Bergin, M.H., et al. [1995,eng] 50-3097
- Simulated effects of dichlorine hexoxide on stratospheric ozone depletion. Parthiban, S., et al. [1995,eng] 50-2019
- Simulating the evolution of the chemical composition of the 1988/89 winter vortex. Jones, R.L., et al. [1990,eng] 50-6024
- Simulation of arctic stratospheric response to aerosol perturbations. Zhao, X.P., et al. [1996,eng] 50-6680
- Simulation of polar stratospheric aerosols. Kaye, J.A., et al. [1990,eng] 50-6019
- Snowbed cryoprote tissue composition related to air pollution. Woolgrove, C.E., et al. [1996,eng] 50-4004
- Snowmelt induced chemical changes in seven streams in the Sierra Nevada, California. Melack, J.M., et al. [1995,eng] 50-2414
- Snowpack evidence of air pollution in Lapland and the Kola Peninsula. Lindroos, A.J., et al. [1995,eng] 50-4955
- Solvation of hydrogen halides on the surface of ice. Robertson, S.H., et al. [1995,eng] 50-6069
- Sorption of nonpolar organic vapors by ice and snow. Hoff, J.T., et al. [1995,eng] 50-644
- Sounding of aerosol formation in the arctic stratosphere. Hofmann, D.J., et al. [1990,eng] 50-4725
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- Spaceborne observation of atmospheric precursors to polar stratospheric cloud formation. Geller, M.A., et al. [1995,eng] 50-4539
- Spectra of polar mesospheric noctilucent cloud ice nuclei. Sugiyama, T., et al. [1996,eng] 50-4255
- Spectrometry of atmospheric emission over the South Pole. Van Allen, R., et al. [1996,eng] 50-4328
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- The presence of metastable $\text{HNO}_3/\text{H}_2\text{O}$ solid phases in the stratosphere inferred from ER 2 data. Tabazadeh, A., et al. [1996,eng] 50-5254
- Time-dependent wave-packet studies on the sticking of HCl to an ice surface. Wang, L.C., et al. [1996,eng] 50-4767
- Toba eruption sulfates recorded in GISP2 ice core. Zielinski, G.A., et al. [1996,eng] 50-5288
- Transport of chemical species from the northern polar vortex. Norton, W.A., et al. [1995,eng] 50-5917
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- Ultrafine aerosol presence in the arctic atmospheric boundary layer. Wiedensohler, A., et al. [1996,eng] 50-4316
- Unsuitability of meteoritic and other nuclei for polar stratospheric cloud freezing. Biermann, U.M., et al. [1996,eng] 50-6513
- Unusual PSCs observed by lidar in Antarctica. Stefanutti, L., et al. [1995,eng] 50-753
- Upland watershed hydrochemical response to acidification during snowmelt. Allan, C., [1995,eng] 50-5210
- Uptake of chlorine dioxide by model PSCs under stratospheric conditions. Brown, L.A., et al. [1996,eng] 50-4164
- Uptake of HBr on ice at polar atmospheric conditions. Chu, L.T., et al. [1995,eng] 50-3090
- Volcanic ash variations in the antarctic stratosphere. Anderson, J., et al. [1996,eng] 50-5613
- Volcanic perturbation of the atmosphere in both polar regions: 1991-1994. Herber, A., et al. [1996,eng] 50-3444
- Volcanic stratospheric loading derived from Greenland ice core measurements. Zielinski, G.A., [1995,eng] 50-1331
- Weathering of aeolian dusts in alpine snows. Delmas, V., et al. [1996,eng] 50-4588
- Yearly cycle of lower tropospheric ozone at the Arctic Circle. Rummukainen, M., et al. [1996,eng] 50-5614
- Younger Dryas as viewed through the Summit Greenland ice cores. Mayewski, P.A., [1994,eng] 50-5301
- Zonal asymmetries in simulation of arctic stratospheric ozone. Isaksen, I.S.A., et al. [1990,eng] 50-6026
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- Enhanced dating procedures for arctic Quaternary marine deposits. Goodfriend, G.A., et al. [1996,eng] 50-4580
- Extent of the Warta Glaciation deposits in the northern foreland of the Lublin upland near Dęblin. Zarski, M., [1993,pol] 50-3669
- Geomorphological and neotectonic features of Hurd Peninsula, Livingston Island, South Shetland Islands. Pallas, R., et al. [1995,eng] 50-1337
- Growth curves for calcium-tolerant lichens in the Canadian Rocky Mountains. McCarthy, D.P., et al. [1995,eng] 50-3330
- Late Holocene snow avalanche activity in southern Norway. McCarroll, D., et al. [1995,eng] 50-3336
- Late Quaternary paleogeography of the Eurasian Basin, Arctic Ocean. Cronin, T.M., et al. [1994,eng] 50-658
- Lichenometric analysis of the Kärkeppe slush-avalanche fan, Kärkeppe, Sweden. Bull, W.B., et al. [1995,eng] 50-4191
- Lichenometric dating of alpine Little Ice Age moraines. Winkler, S., et al. [1995,ger] 50-3396
- On the age of stratospheric air and inorganic chlorine and bromine release. Daniel, J.S., et al. [1996,eng] 50-6331

- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995,eng] 50-1866
- Paleoecological reconstruction of the Late Pleistocene, based on loess Malacofauna in Hungary. Krolopp, E., et al. [1995,eng] 50-1048
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- Problematic ice sheets. Rutter, N.W., [1995,eng] 50-498
- Questions in the application of the actualism principle in glaciology. Tronov, M.V., [1972,rus] 50-538
- Radiocarbon dating of the Götö-Finiglacial boundary of the Swedish Time Scale. Brunnberg, L., et al. [1992,eng] 50-2551
- Recent oscillations of the San Quintin and San Rafael glaciers, Patagonian Chile. Winchester, V., et al. [1996,eng] 50-5579
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- Stable carbon isotope ratios in tree rings of pines from northern Finland. Sonninen, E., et al. [1994,eng] 50-3181
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- Tree ring value determination of climatic change in Switzerland. Vogt, R.B., et al. [1996,ger] 50-6714
- Tree-ring dating of extreme water level events at Lake Bienville, subarctic Québec, Canada. Lepage, H., et al. [1996,eng] 50-4339
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- Antarctic journal of the United States, vol.29, no.1, [1994,eng] 50-139
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- Barley genetic resources on the Qinghai-Xizang Plateau. Xu, T.W., [1992,chi] 50-1492
- Crop-hail damage in the Midwest corn belt. Hillaker, H.J., Jr., et al. [1985,eng] 50-4592
- Device for snow retention. Khuzin, V.Kh., [1992,rus] 50-1927
- Effect of climate change on erosion and nutrient transport from arable land. Kallio, K., et al. [1994,eng] 50-3196
- Effect of fertilizer on the quality and productivity of Jiashi melons. Zhao, G.H., et al. [1991,chi] 50-5124
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- Forecasting earth surface temperature for the optimal application of frost protection methods. Krasovitski, B., et al. [1996,eng] 50-5021
- Freeze protection of Florida citrus with microsprinkler irrigation. Parsons, L.R., et al. [1995,eng] 50-3074
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- Land application turns wastewater into ice cubes. Madison, M., et al. [1994,eng] 50-2122
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- Means of snow melioration. Terpilovskii, E.I.U., et al. [1992,rus] 50-1926
- Microsprinkler irrigation for freeze protection of young citrus trees. Davies, F.S., [1995,eng] 50-3075
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- Nitrous oxide emission from an agricultural soil subjected to different freeze-thaw cycles. Chen, Y., et al. [1995,eng] 50-5687
- Plant nutrient runoff in Norwegian watersheds. Haraldsen, T.K., et al. [1995,eng] 50-741
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- Studies on the soils and land resources of Xinjiang. Xinjiang Institute of Biology, Pedology, and Desert Research of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang shengwu turang shamo yanjiusuo), Urumqi, [1991,chi] 50-5106
- Study on a high-efficiency new type of urea fertilizer using ^{15}N . Xiong, J.M., et al. [1991,chi] 50-5129
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- Transformation of an enzyme pool in cultivated podzol soil. Freger, V.M., [1994,rus] 50-279
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Source of summer arctic atmospheric aerosols. Maenhaut, W., et al. [1996,eng] 50-4321
Thermal calculation for anti-icer with micro-ejector. Qui, X.G., et al. [1995,eng] 50-1067
Turbine blade icing model. Finstad, K.J., et al. [1992,eng] 50-3628
Ventilation experiments in a seasonal snow cover. Albert, M.R., et al. [1995,eng] 50-2397

Air ice interface

See [also]: Ice air interface

Air ice water interaction

- 1994/95 winter ice in the Baltic Sea between the Ems and the Oder rivers. Strübing, K., [1995,ger] 50-4535
Arctic and climate: the Arctic Climate System Study program. Kondrat'ev, K.I.A., et al. [1993,rus] 50-4113
Arctic and environmental change. Wadhams, P., ed, et al. [1995,eng] 50-5226
Arctic Ocean atmospheric boundary layer structure and flow. Nilsson, E.D., [1996,eng] 50-4314
Arctic Ocean dimethyl sulfide seasonal variability. Leck, C., et al. [1996,eng] 50-4313
Arctic Ocean ice and water transport during 1946-1988. Proshutinskii, A.I.U., et al. [1995,eng] 50-6313
Arctic Ocean—a special natural cryogenic system. Danilov, I.D., [1996,rus] 50-6374
Arctic oceanography: marginal ice zones and continental shelves. Smith, W.O., Jr., ed, et al. [1995,eng] 50-1159
Arctic sea ice extent and thickness. Wadhams, P., [1995,eng] 50-5235
Arktis 1993: report on the field phase with examples of measurements. Brümmer, B., ed, [1993,eng] 50-4945

- Atmosphere-ocean interactions in the marginal ice zones of the Nordic seas. Guest, P.S., et al. [1995,eng] 50-1161
Atmosphere-surface interactions over polar oceans and heterogeneous surfaces. Vihma, T., [1995,eng] 50-4035
Atmospheric heat budget seasonal variations in 1988. Okada, I., et al. [1995,eng] 50-2581
Buoy for all arctic seasons: the Ice-Ocean Environmental Buoy. Honjo, S.S., [1996,eng] 50-6673
Buoy installation and operation in Terra Nova Bay. Cucinotta, A., et al. [1994,eng] 50-4284
Buoys in the Arctic study heat exchange. Honjo, S.S., et al. [1996,eng] 50-6334
C-band backscatter measurements of winter sea-ice in the Weddell Sea, Antarctica. Drinkwater, M.R., et al. [1995,eng] 50-1817
Characteristics of Arctic Ocean climate based on COADS data, 1980-1993. Clark, M.P., et al. [1996,eng] 50-6545
Charting movement of sea ice by satellite. Carsey, F., [1995,eng] 50-715
Climate and ice-snow cover. Peng, G.B., et al. [1992,chi] 50-1168
Climate simulations with a global atmosphere-ocean model. pt. I. Lunkeit, F., et al. [1996,eng] 50-4090
Climatic atlas of Labrador Sea seasonal ice concentration. Wang, J., et al. [1991,eng] 50-5259
Climatological aspects of cyclone development and decay in the Arctic. Serreze, M.C., [1995,eng] 50-599
Comparing simulated glacial climate and paleodata: a reexamination. Broccoli, A.J., et al. [1996,eng] 50-4398
Comparison of monthly sea ice simulation models. Wu, X.R., et al. [1996,eng] 50-5451
Convection induced polynyas during the freezing of antarctic seawater. Hadji, L., [1996,eng] 50-6452
Coupled ice-ocean-atmosphere model of the Bering Sea. Hedstrom, K.S., [1995,eng] 50-6310
Decadal oscillations driven by the annual cycle in a zonally-averaged coupled ocean-ice model. Yang, J.Y., et al. [1996,eng] 50-3069
Development of a regional climate model of the western Arctic. Lynch, A.H., et al. [1995,eng] 50-597
Dimethyl sulfide in the arctic atmosphere. Ferek, R.J., et al. [1995,eng] 50-2850
Doppler observations of Bering Sea ice edge ocean circulation. Okkonen, S., et al. [1995,eng] 50-1032
Dynamics of heat exchange between sediment and water in a lake. Fang, X., et al. [1996,eng] 50-5970
Effect of sea ice distribution on atmospheric circulation models. Grzner, A., et al. [1996,eng] 50-5864
Energy-balance model of lake-ice evolution. Liston, G.E., et al. [1995,eng] 50-457
Evaporation from a small lake in the continental Arctic using multiple methods. Gibson, J.J., et al. [1994,eng] 50-5694
Global sea-ice—upper-ocean model: some preliminary results. Fichefet, T., et al. [1993,eng] 50-4821
Heat budgets of the Arctic Ocean and Nordic Seas. Simonsen, K., et al. [1996,eng] 50-4298
Heat flux from leads in pack ice from a Landsat TM image. Lindsay, R.W., [1994,eng] 50-5179
Heat flux through Weddell Sea ice cover. Lytle, V.I., et al. [1996,eng] 50-5263
High resolution observations of Weddell Sea surface currents using ERS-1 SAR sea-ice motion vectors. Thomas, J.P., et al. [1995,eng] 50-1819
High-latitude climate change with an atmospheric coupled sea ice model. Washington, W.M., et al. [1996,eng] 50-6055
Ice sheets, climate change and sea level. Drewry, D., [1996,eng] 50-3411
Ice-core analysis for sea-ice development in Ross, Amundsen and Bellingshausen seas, 1993 and 1994 winters. Jeffries, M.O., et al. [1995,eng] 50-6503
Ice-ocean seasonal cycle and climate response in Hudson Bay. Soucier, F.J., et al. [1995,eng] 50-5931
Ice-thermal regime at front deltas of rivers of the Laptev Sea. Nalimov, I.U.V., [1995,eng] 50-2070
Increasing CO₂ decreasing insolation, and initiation of ice sheets. Chu, S.P., [1994,eng] 50-671
Inertial currents in the Beaufort Sea: observations of response to wind and shear. Merrifield, M.A., et al. [1996,eng] 50-4299
Interaction of arctic fogs with aerosols. Nilsson, E.D., et al. [1996,eng] 50-4318
Interannual variability of sea-level pressure, sea-ice and runoff over the Arctic. Power, S.B., et al. [1991,eng] 50-5258
Interdecadal climate variability in the subpolar North Atlantic. Wöhlleben, T.M.H., et al. [1995,eng] 50-2743
Investigation of the general circulation of the Arctic Ocean using an isopycnal model. Holland, D.M., et al. [1996,eng] 50-3822
Investigations of air-sea interactions carried out during the TRANSDRIFT II Expedition. Afanas'eva, I.U., et al. [1995,eng] 50-2060
Labrador Sea atmospheric circulation/sea-ice anomalies. Newell, J.P., [1996,eng] 50-6227
Modeling climatic sensitivity of European marginal seas. Backhaus, J.O., [1996,eng] 50-4022
Modeling the influence of ice on sea level variations in the Baltic Sea. Zhang, Z.H., et al. [1995,eng] 50-6758
Modeling the surface heat flux response to long-lived SST anomalies in the North Atlantic. Power, S.B., et al. [1995,eng] 50-639
Modelling arctic climate change. Cattle, H., et al. [1995,eng] 50-5227

- Modelling interannual sea ice variability in the Gulf of St. Lawrence. DeTracey, B., [1993,eng] 50-375
New formulation for the Bowen ratio over saturated surfaces. Andreas, E.L., et al. [1996,eng] 50-6570
North Water polynya studies in Baffin Bay. Apr. 1978-Dec. 1979. Müller, F., et al. [1980,eng] 50-3974
North-East Water polynya: satellite observations summer 1992 and 1993. Gudmandsen, P., et al. [1995,eng] 50-1814
NSF: ocean sciences, arctic & global change research. Gross, M.G., [1991,eng] 50-719
Numerical model simulation of a summer reversal of the Beaufort gyre. Preller, R.H., et al. [1989,eng] 50-4706
Observation of momentum and heat transfers between ocean and atmosphere in the Chukchi Sea. Sasaki, Y., et al. [1996,eng] 50-4479
On changes of air pressure during an ice age. Loewe, F., [1973,ger] 50-4617
On the ice-ocean response to wind forcing. Omstedt, A., et al. [1996,eng] 50-6666
Origin and structure of a numerically simulated polar low over Hudson Bay. Albright, M.D., et al. [1995,eng] 50-2526
Oscillatory behavior in arctic sea ice concentrations. Gloersen, P., et al. [1996,eng] 50-4300
Overview of the Arctic Ocean Expedition of 1991 (IAOE-91). Leck, C., et al. [1996,eng] 50-4312
Ozone layer concentration over the Weddell Sea. Elanskii, N.F., et al. [1995,eng] 50-6328
Physically based model of the form drag associated with sastrugi. Andreas, E.L., [1995,eng] 50-237
Proceedings of the NIPR Symposium on Polar Meteorology and Glaciology. No.9. Watanabe, O., ed. NIPR Symposium on Polar Meteorology and Glaciology, 17th, Tokyo, July 13-14, 1994, [1995,eng] 50-2574
Radiative transfer in atmosphere-sea ice-ocean system. Jin, Z., et al. [1996,eng] 50-5276
Recent climate variability in the vicinity of the Antarctic Peninsula. King, J.C., [1994,eng] 50-2994
Reconstruction of the ice winter severity since 1701 in the western Baltic. Koslowski, G., et al. [1995,eng] 50-1957
Relation between scattering coefficient and radiation flux over land-fast sea ice. Barber, D.G., et al. [1995,eng] 50-1816
Remote sensing of sea ice variations in response to atmospheric circulation. Maslanik, J.A., et al. [1995,eng] 50-1815
Resolved: the Arctic controls global climate change. Alley, R.B., [1995,eng] 50-1167
Review of modelling the thermodynamics of floating ice. Savage, S.B., et al. [1996,eng] 50-6488
River ice processes. Prowse, T.D., [1995,eng] 50-785
Role of air-sea heat flux in Newfoundland Shelf sea temperature variability. Umoh, J.U., et al. [1995,eng] 50-4209
Role of ice in the global water cycle. Lawford, R.G., [1993,eng] 50-5079
Satellite radar survey of Japan Sea ice processes. Martin, S., et al. [1995,eng] 50-1810
Satellite studies of pollution in the Barents and Kara seas. Kögeler, J., et al. [1995,eng] 50-4136
SCAR report No.11. Feb. 1996. Scientific Committee on Antarctic Research. [1996,eng] 50-5803
Scientific plan for a regional research programme in the Arctic on global change. International Arctic Science Committee (IASC). Oslo, Norway, [1994,eng] 50-1508
Sea ice and sediment export from the Laptev Sea fluvial lead during 1991/92 winter season. Dethleff, D., [1995,eng] 50-2073
Sea ice in the global climate system: requirements for an ocean observing system. Allison, I., et al. [1995,eng] 50-4248
Sea ice variations under doubled atmospheric carbon dioxide. Timbal, B., et al. [1995,eng] 50-2734
Sea ice. Parkinson, C.L., [1996,eng] 50-4998
Seasonal aerosol variability in the arctic marine boundary layer. Leck, C., et al. [1996,eng] 50-4320
Seasonal simulation of the southern ocean coupled ice-ocean system. Häkkinen, S., [1995,eng] 50-2113
Sedimentation at a tidewater glacier in Arthur Harbor. Ashley, G.M., et al. [1994,eng] 50-2223
Sensitivity of numerical prognoses to antarctic sea ice distribution. Watkins, A.B., et al. [1995,eng] 50-2111
Simulation and analysis of upper Niagara River ice-jam conditions. Wang, D.S., et al. [1995,eng] 50-356
Simulation of the mixed-layer circulation in the Arctic Ocean. Holland, D.M., et al. [1996,eng] 50-2843
Simulation of the seasonal arctic sea-ice cover with a dynamic thermodynamic sea-ice model. Holland, D.M., et al. [1993,eng] 50-5186
Small-scale physical processes in the Arctic Ocean. Padman, L., [1995,eng] 50-1162
Solar heating of the arctic mixed layer. Maykut, G.A., et al. [1995,eng] 50-2775
Source of summer arctic atmospheric aerosols. Maenhaut, W., et al. [1996,eng] 50-4321
Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savel'ev, B.A., [1963,rus] 50-3832
Subgrid parameterization of surface heat and momentum fluxes over polar oceans. Vihma, T., [1995,eng] 50-2110
Thermal regime of ice covered Swedish lakes. Bengtsson, L., et al. [1994,eng] 50-5696
Thermodynamic model of lake ice formation and melting. Dmitriev, N.V., [1995,eng] 50-5480
Thermohaline circulation of the Arctic Ocean and the Greenland Sea. Rudels, B., [1995,eng] 50-5234
Turbulence in the statically unstable oceanic boundary layer under arctic leads. McPhee, M.G., et al. [1996,eng] 50-4297

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Air pollution

- Uptake of methanesulfonate and sulfate in ice. Whung, P.Y., et al. [1994,eng] 50-1895
- Weddell-1 ice drift station in Antarctica. Mel'nikov, I.A., [1995,eng] 50-6689
- Wind events compared with polynya area estimates derived from SSM/I data. Markus, T., et al. [1993,eng] 50-5596
- Wind-induced ice floe rotation and icequakes north of the Alaskan Beaufort Sea coast. Kozo, T.L., et al. [1996,eng] 50-6508
- Winter 1994 weather and ice conditions for the Laurentian Great Lakes. Assel, R.A., et al. [1996,eng] 50-3294
- Winter ice in Okhotsk Sea and spring and summer climate in north Japan. Yamada, Y., [1996,jpn] 50-5903
- Winter investigations in the Ross, Amundsen and Bellingshausen seas, 1993-1995. Jafía Obregón, R., et al. [1995,spa] 50-2583
- Winter-summer differences of carbon dioxide and oxygen in the Weddell Sea surface layer. Hoppema, M., et al. [1995,eng] 50-3006
- Air inflated structures**
See (also): Inflatable structures
- Air leakage**
Fan pressurization measurements by four protocols. Flanders, S.N., [1995,eng] 50-485
- Laboratory testing of air retarders in metal building panels. Flanders, S.N., et al. [1995,eng] 50-1980
- Air masses**
Arctic Ocean atmospheric boundary layer structure and flow. Nilsson, E.D., [1996,eng] 50-4314
- Arktis 1993: report on the field phase with examples of measurements. Brümmer, B., ed. [1993,eng] 50-4945
- Boreal forest and the polar front. Pielke, R.A., et al. [1995,eng] 50-2847
- Chemical characterization of individual aerosol particles in central Siberia. Van Malderen, H., et al. [1996,eng] 50-4966
- Classification of hailstorm systems in north China and the characteristics of hailstorm cells. Yang, P.C., et al. [1983,eng] 50-4095
- Detection of climate change in the Arctic: an updated report. Ye, H.C., et al. [1994,eng] 50-3026
- Evolution of water vapor in the southern polar stratosphere. Lahoz, W.A., et al. [1996,eng] 50-5011
- Ground and aircraft weather observations and in-flight aircraft icing. Bernstein, B.C., et al. [1996,eng] 50-5373
- Himalayan summer snow cover and withdrawal of the Indian summer monsoon. Dey, B., et al. [1985,eng] 50-4970
- Numerical case study of a polar low in the Labrador Sea. Mailhot, J., et al. [1996,eng] 50-5869
- Ozone layer concentration over the Weddell Sea. Elanskii, N.F., et al. [1995,eng] 50-6328
- Photooxidants in the marine arctic troposphere in summer. Weller, R., et al. [1996,eng] 50-5255
- Planetary waves in total ozone and their relation to antarctic ozone depletion. Bodeker, G.E., et al. [1995,eng] 50-4541
- Pressure cutoff effects on polar stratospheric chemistry. Cerniglia, M.C., et al. [1995,eng] 50-588
- Radiometric observations of supercooled liquid water within a split front over Sierra Nevada. Heggli, M.F., et al. [1985,eng] 50-4972
- Snowfall distribution on the seaside of Hokkaido, Japan. Tachibana, Y., [1995,eng] 50-342
- Total hydrogen budget in the arctic winter stratosphere. Engel, A., et al. [1996,eng] 50-5767
- Air pollution**
130 years deposition record of sulfate, nitrate and chloride from a high-alpine glacier. Döschner, A., et al. [1995,eng] 50-4079
- Acid aerosols in rime on Kyushu, Japan. Nagafuchi, O., et al. [1995,eng] 50-4957
- Acid pollutants in air and precipitation/deposition at the Sudeten Mountains. Poland. Kmiec, G., et al. [1995,eng] 50-4954
- Acid precipitation in Hokkaido (Part 2). Tani, A., et al. [1995,jpn] 50-6739
- Aerosol deposition to an alpine tundra ecosystem. Sievering, H., et al. [1996,eng] 50-5964
- Aerosols composition over the Arctic Ocean. Shevchenko, V.P., et al. [1995,eng] 50-2061
- Aerosols used as tracers for stratosphere-troposphere exchange in the Arctic. Foltescu, V.L., et al. [1995,eng] 50-777
- Air quality at a zinc/lead mine in arctic Alaska. MacCay, C., et al. [1996,eng] 50-6174
- Airborne measurements of atmospheric methane over oil fields in western Siberia. Tohjima, Y., et al. [1996,eng] 50-6509
- Airborne studies of submicron aerosol in the troposphere over West Siberia. Panchenko, M.V., et al. [1996,eng] 50-5281
- Analysis of DDT, DDE and PCBs in the blood of *Pygoscelis* of Antarctica. Yang, H.F., et al. [1989,chi] 50-6776
- Analysis of the ecological status in the Ladoga Lake basin. Rumiantsev, V.A., et al. [1992,rus] 50-385
- Analyzing the composition of ecosystems of land in the Noril'sk industrial region. Igamberdiev, V.M., et al. [1994,rus] 50-277
- Ancient pollution recorded in Greenland ice. Hong, S.M., et al. [1996,eng] 50-3956
- Anthropogenic impacts on biodiversity in the Arctic. Young, O.R., et al. [1995,eng] 50-3899
- Arctic 'greenhouse effect'. Blanchet, J.P., et al. [1994,eng] 50-5034
- Arctic and antarctic ozone depletion inferred from radiometric soundings. MacKenzie, J.A., et al. [1996,eng] 50-5768
- Arctic atmospheric composition during episodic air pollution. Lejenäs, H., et al. [1996,eng] 50-6710
- Arctic haze phenomenon. Shaw, G.E., [1995,eng] 50-4569
- Arctic marine mammals as integrators and indicators of mercury in the Arctic. Wagemann, R., et al. [1995,eng] 50-4881
- Arctic ozone hole—a myth or a possibility. Singh, O.N., et al. [1995,eng] 50-4529
- Arctic tropospheric chemistry. Hernández, M.D.A., [1996,eng] 50-3868
- Arctic wasteland: a perspective on arctic pollution. Davis, N., [1996,eng] 50-5838
- Atmospheric aerosol in the Finnish Arctic. Virkkula, A., et al. [1995,eng] 50-4952
- Atmospheric aerosol in Tomsk. Zuev, V.V., [1996,eng] 50-5285
- Atmospheric aerosol turbidity over polar regions. Radionov, V.F., et al. [1995,eng] 50-6326
- Atmospheric bromine in the Arctic. Berg, W.W., et al. [1983,eng] 50-3650
- Atmospheric deposition and pollutant exposure of eastern U.S. forests. Mohnen, V.A., [1992,eng] 50-4052
- Atmospheric deposition at Niwot Ridge, CO. Rusch, D., et al. [1995,eng] 50-2395
- Atmospheric deposition effects on foliar injury and foliar leaching in red spruce. Schier, G.A., et al. [1992,eng] 50-4056
- Atmospheric ozone, its depletion and antarctic ozone hole. Ghosh, S.N., et al. [1994,eng] 50-1687
- Atomic emission spectrometry of Greenland snow lead impurities. Zobiński, R., et al. [1995,eng] 50-4082
- Automobile emissions under arctic conditions. Andres, R.J., et al. [1996,eng] 50-6173
- Behavior of mercury in seawater to the northwest of the Antarctic Peninsula. Ruan, Z., [1989,chi] 50-6774
- Boundary-layer ozone depletion as seen in the Norwegian arctic in spring. Solberg, S., et al. [1996,eng] 50-4152
- Bromine-chlorine coupling in the antarctic ozone hole. Danilin, M.Y., et al. [1996,eng] 50-3065
- Cation trace analysis of snow and firn samples from high-alpine sites by ion chromatography. Döschner, A., et al. [1995,eng] 50-594
- Changes in trace element speciation in Kola north surface waters during snow melt. Rodushkin, I.V., et al. [1995,eng] 50-4080
- Characteristics of air pollution in the Magadan District. Kozovets, N.E., [1991,rus] 50-442
- Chemical characterization of individual aerosol particles in central Siberia. Van Malderen, H., et al. [1996,eng] 50-4966
- Chemical composition of acid snowfall in northern part of Hokkaido. Satoh, F., et al. [1996,jpn] 50-6727
- Chlorine monoxide in the antarctic spring vortex, pt.2. Shindell, D.T., et al. [1996,eng] 50-3018
- Climatology of high-latitude air pollution as illustrated by Fairbanks and Anchorage, Alaska. Bowling, S.A., [1986,eng] 50-4910
- Cloud condensation nuclei over the Arctic Ocean in early spring. Hegg, D.A., et al. [1995,eng] 50-348
- Contaminants in the arctic marine environment: priorities for protection. Macdonald, R.W., et al. [1996,eng] 50-5574
- Contribution to the hydrological and hydrochemical response of mountain basins. Babiková, G., et al. [1994,eng] 50-3670
- Decadal evolution of the antarctic ozone hole. Jiang, Y., et al. [1996,eng] 50-5253
- Decline of fauna in small streams in the Swedish mountain range. Olofsson, E., et al. [1995,eng] 50-4078
- Deposit of atmospheric biphenyls in the Canadian Arctic. Gregor, D., et al. [1996,eng] 50-6521
- Deposition around a coal-fired power station during a winter-time precipitation event. Jylhä, K., [1995,eng] 50-4953
- Deposition of semivolatile organic chemicals by snow. Franz, T.P., Jr., [1994,eng] 50-372
- Detection of air pollution at a Svalbard mountain station. Beine, H.J., et al. [1996,eng] 50-5205
- Directional hemispheric reflectance as an indicator of snow cover stability. Sergeant, C., et al. [1995,fre] 50-4685
- Diversity of pine forests in the Lapland State Reserve, the Kola Peninsula. Neshataev, V.I.U., et al. [1995,eng] 50-3174
- Dry depositional loading of nitrogen to an alpine snowpack. Niwot Ridge, Colorado. Cress, R.G., et al. [1995,eng] 50-2396
- Dynamical influences on the antarctic ozone hole. Harvey, M.W., et al. [1996,eng] 50-6648
- Ecogeochemical investigations, Kola Peninsula: sulphur and trace element content in snow. Äyräs, M., et al. [1995,eng] 50-4081
- Ecology and decline of red spruce in the eastern United States. Eagar, C., ed. [1992,eng] 50-4049
- Ecophysiology of a snow-bed moss during snowmelt. Woolgrove, C.E., et al. [1996,eng] 50-6748
- Effect of acid snow and acid rain on the soils and others in Niigata Prefecture. Taguchi, Y., et al. [1996,jpn] 50-5801
- Effect of air pollution on flora and fauna in tundra landscapes. Polshvedkin, V.V., [1994,rus] 50-256
- Effect of air pollution on soil invertebrates in the Lapland biosphere reserve. Giliazova, E.V., [1994,rus] 50-286
- Effect of ethanol additives on odor detection of Alaskan gasolines. Zhao, X.H., et al. [1995,eng] 50-3393
- Effects of acidification on plankton biomass in high mountain lakes. Engle, D., et al. [1995,eng] 50-2149
- Effects of air pollution on carbon allocation in red spruce. McLaughlin, S.B., et al. [1992,eng] 50-4058
- Effects of smelter emissions on pine tree frost hardiness. Sutinen, M.L., et al. [1996,eng] 50-4309
- Emissions from antiskid materials applied to icy roadways. Phase 2. Kinsey, J.S., [1995,eng] 50-3939
- Estimation of aerosol deposition to a snow surface. Sharma, M., et al. [1995,eng] 50-3011
- Evaluation of the changes in regional wintertime deposition in Finland during 1976-1993. Sovieri, J., et al. [1995,eng] 50-4956
- First results of $^{15}\text{N}/^{14}\text{N}$ ratios in nitrate from alpine and polar ice cores. Freyer, H.D., et al. [1996,eng] 50-3724
- Genotoxicity of snow in the Montreal metropolitan area. White, P.A., et al. [1995,eng] 50-1567
- Greenland atmospheric aerosol composition during a foehn. Kikuchi, K., et al. [1996,eng] 50-6216
- Halocarbon seasonal variations in the arctic troposphere. Yokouchi, Y., et al. [1996,eng] 50-5612
- Heavy metal concentrations in peat profiles from the high Arctic. Headley, A.D., [1996,eng] 50-3721
- Heterogeneous atmospheric bromine chemistry. Lary, D.J., et al. [1996,eng] 50-3019
- Ice-crystal fogs of central Sakha. Osipov, D.A., [1995,eng] 50-4702
- Impact of stratospheric flight on ozone. Pitari, G., et al. [1995,eng] 50-557
- Influence of forest fire aerosols on sampling of polar atmospheres. Polissar, A.V., et al. [1996,eng] 50-5206
- Influence of the growth mechanisms of snow particles on their chemical composition. Takahashi, T., et al. [1996,eng] 50-5610
- Isotopic tracers for investigating hydrological processes. Cooper, L.W., et al. [1996,eng] 50-4846
- Lead isotopic ratios in Greenland and antarctic snow and ice. Chisholm, W., et al. [1995,eng] 50-1256
- Lichen accumulation of airborne metals adjacent to a lead-zinc mine. Pilegaard, K., [1994,eng] 50-5604
- Lidar measurements of arctic polar ozone depletion. Wirth, M., et al. [1996,eng] 50-5286
- Lidar measurements of global dust transport from the Taklimakan Desert. Itabe, T., et al. [1991,jpn] 50-1430
- Long-range tropospheric transport of pollution aerosols into the Alaskan Arctic. Raatz, W.E., et al. [1984,eng] 50-4722
- Manganese and other trace elements in urban snow near an expressway. Loranger, S., et al. [1996,eng] 50-5776
- Measurements of Alaskan spring atmospheric ozone content. Beine, H.J., et al. [1996,eng] 50-6640
- Mending the ozone hole: science, technology, and policy. Makhijani, A., et al. [1995,eng] 50-2523
- Model for measuring PAH deposits on snow. Sharma, M., et al. [1995,eng] 50-3037
- Model of arctic air pollution by sulfur aerosols. Dastoor, A.P., et al. [1996,eng] 50-5450
- Modeling dry deposition of dust along the Dalton Highway. Lamprecht, R., et al. [1996,eng] 50-4853
- Modeling of snow reflectance in the visible and near infrared. Leroux, C., et al. [1995,fre] 50-4672
- Modeling the effects of climate change, air pollutants and land use on freshwater ecosystems: summary. Kauppi, L., et al. [1994,eng] 50-5192
- Monitoring organic pollutants in the Arctic in 1992. Fellin, P., et al. [1996,eng] 50-4359
- Northern forest plants under the pressure of environmental changes. Laine, K., et al. [1994,eng] 50-3231
- Nutrient and persistent pollutant deposition on the Bothnian Bay ice and snow fields. Rahm, L., et al. [1995,eng] 50-1650
- O_3 and NO_2 fluxes over snow measured by eddy correlation. Stocker, D.W., et al. [1995,eng] 50-2151
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge, Alaska. Department of Environmental Conservation. Division of Environmental Quality, [1990,eng] 50-3913
- Ozone deposition in a subarctic woodland, pt.1. Munger, J.W., et al. [1996,eng] 50-6641
- Ozone hole. Hall, T.M., [1996,eng] 50-4995
- Ozone layer: the road not taken. Prather, M., et al. [1996,eng] 50-5214
- Periodic variations in air-water gas exchange of Arctic Ocean insecticide pollutants. Jantunen, L.M., et al. [1995,eng] 50-1862
- Photooxidants in the marine arctic troposphere in summer. Weller, R., et al. [1996,eng] 50-5255
- Physicochemical properties and partitioning of organochlorine compounds in air and water. Falconer, R.L.M., [1994,eng] 50-688
- Physiological responses of *Pinus sylvestris* on changing carbon dioxide and ozone concentration. Holopainen, T., et al. [1994,eng] 50-3232
- Possible increased toxicity of automobile emissions in cold climates. Perkins, R.A., [1996,eng] 50-6137
- Recent air pollution variations inferred from Greenland ice sheet heavy metal concentrations. Candelone, J.P., et al. [1995,eng] 50-590
- Report on acidification in the arctic countries. Nenonen, M., [1991,eng] 50-3418
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- River pollution of Russian northern seas. Rovinskii, I.A., et al. [1995,eng] 50-6548
- Road-related disturbances in an arctic watershed. Leadley, P.W., et al. [1996,eng] 50-4856
- Role of industries and environmental effects on corrosion control in the North. Dutta, P.K., [1996,eng] 50-3760
- Satellite observation of arctic ozone depletion. Müller, R., et al. [1996,eng] 50-6636

Air snow interface

- Satellite studies of pollution in the Barents and Kara seas. Kögel, J., et al. [1995,eng] 50-4136
- Scavenging of gases during growth of ice crystals. Santachiara, G., et al. [1995,eng] 50-2470
- Scientific plan for a regional research programme in the Arctic on global change. International Arctic Science Committee (IASC), Oslo, Norway, [1994,eng] 50-1508
- Seasonal cycle of C_2 - C_3 hydrocarbons over the Baltic Sea and northern Finland. Laurila, T., et al. [1996,eng] 50-5607
- Smoke plume trajectory from *in situ* burning of crude oil in Alaska—field experiments. McGrattan, K.B., et al. [1995,eng] 50-5727
- Snowbed bryophyte tissue composition related to air pollution. Woolgrove, C.E., et al. [1996,eng] 50-4004
- Snowpack evidence of air pollution in Lapland and the Kola Peninsula. Lindroos, A.J., et al. [1995,eng] 50-4955
- Soil-mediated effects of atmospheric deposition on eastern U.S. spruce-fir forests. Johnson, D.W., et al. [1992,eng] 50-4055
- Solar irradiance, air pollution and temperature changes in the Arctic. Stanhill, G., [1995,eng] 50-5231
- Sorption of nonpolar organic vapors by ice and snow. Hoff, J.T., et al. [1995,eng] 50-644
- Source of summer arctic atmospheric aerosols. Maenhaut, W., et al. [1996,eng] 50-4321
- Sources and distribution of sulfate in the Pacific atmosphere. Chen, L.Q., et al. [1989,chi] 50-6786
- Sources of acidity in fresh snowfall elemental concentrations. Baisden, W.T., et al. [1995,eng] 50-2126
- Sources of biogenic sulfur in the high Arctic. Hopke, P.K., et al. [1995,eng] 50-589
- Sources of organic carbon aerosols in the arctic atmosphere. Kawamura, K., et al. [1996,eng] 50-5611
- Study on the actual conditions of acid snow in Hokuriku District. Yoshikawa, S., [1992,jpn] 50-3133
- Sulfate deposition over the Arctic Ocean. Smith, L., [1995,eng] 50-643
- Sulfur hexafluoride—a powerful new atmospheric tracer. Maiss, M., et al. [1996,eng] 50-5608
- Surface ozone at high latitudes. Theodorsen, A., et al. [1996,eng] 50-4871
- Synthesis and conclusions from studies of red spruce decline. Johnson, A.H., et al. [1992,eng] 50-4059
- Theoretical model of the transfer of radionuclides (the accident at the Siberian chemical plant). Belov, P.N., [1995,rus] 50-3774
- Trichloroacetic acid in conifer needles and arboreal lichens in forest environments. Juuti, S., et al. [1996,eng] 50-4206
- Tropical toxins ruin arctic catch. Pearce, F., [1995,eng] 50-968
- Use of remote sensing spacecraft in real-time support for disaster management. Torrici Montaperto, A., et al. [1992,eng] 50-620

Air snow interface

See [also]: Snow air interface

Air soil interface

See [also]: Soil air interface

Air temperature

- 10,000-years dynamics of limnic ecosystems and climatic change. Salonen, V.-P., et al. [1994,eng] 50-3182
- 135,000-year Vostok SPECMAP common temporal framework. Sowers, T., et al. [1993,eng] 50-2867
- 1989 AASE temperature and wind measurements. Chan, K.R., et al. [1990,eng] 50-5980
- 1994/95 winter ice in the Baltic Sea between the Ems and the Oder rivers. Strübing, K., [1995,ger] 50-4535
- Air Force Global Weather Central Surface Temperature model. Kopp, T.J., [1995,eng] 50-3300
- Alone: the classic polar adventure. Byrd, R.E., [1995,eng] 50-2851
- Alpine glacial advances derived from summer air temperature records. Bray, J.R., [1982,eng] 50-3380
- Analysis of the air temperature in the Holocene using various methods. Baranova, N.A., et al. [1996,rus] 50-6350
- Annual air-temperature measurement and ablation estimate at Moreno Glacier, Patagonia. Takeuchi, Y., et al. [1996,eng] 50-5512
- Antarctic automatic weather station data for the calendar year 1994. Keller, L.M., et al. [1996,eng] 50-5806
- Antarctic circumpolar wave in surface pressure, wind, temperature and sea-ice extent. White, W.B., et al. [1996,eng] 50-4213
- Antarctic Peninsula ice shelves retreat. Vaughan, D.G., et al. [1996,eng] 50-3354
- Application of lake temperature model for predicting the effect of climatic change. Virta, J., et al. [1994,eng] 50-3200
- Arctic ozone hole—a myth or a possibility. Singh, O.N., et al. [1995,eng] 50-4529
- Arctic process and climate studies with the TOVS satellite sounder. Francis, J.A., [1994,eng] 50-684
- Assessment of global climate model simulations of arctic air temperatures. Tao, X., et al. [1996,eng] 50-5532
- Asymmetric diurnal temperature change in the alpine region. Weber, R.O., et al. [1994,eng] 50-4790
- Atmospheric heat budget seasonal variations in 1988. Okada, I., et al. [1995,eng] 50-2581
- Behavior of tropospheric and stratospheric ozone in The Arctic and Antarctica. Taalas, P., [1993,eng] 50-4769
- Bioclimatic conditions in the region of Arcowski Station during the summer period. Styszyńska, A., [1989,pol] 50-2931
- Calculated and measured air and soil freeze-thaw frequencies. Baker, D.G., et al. [1995,eng] 50-1217

- Carbon and water in polar lichens. Kappen, L., et al. [1995,eng] 50-3782
- Changes in the cryogeological conditions of developed lower reaches and estuaries of northern rivers. Shvetsov, P.F., et al. [1991,rus] 50-1301
- Characteristics of a sudden drop in average daily air temperatures in the western Arctic. Grakhovskii, G.N., [1990,rus] 50-325
- Characteristics of runoff formation at the Kirgizskiy Alatau, Tien Shan. Aizen, V.B., et al. [1995,eng] 50-2435
- Characteristics of the meteorological regime of glaciers in Upper Svanetia during ablation. Voloshina, A.P., et al. [1972,rus] 50-525
- Characteristics of winters in a high mountain region climate in a period of new climatic norms. Kveták, Š., et al. [1991,rus] 50-3521
- Chinese loess accumulation compared to Greenland ice core climatology. An, Z.S., et al. [1995,eng] 50-1065
- Climate monitor. Vol.22. [1995,eng] 50-3351
- Climate of Inner Mongolia. Wang, W.H., ed. [1990,chi] 50-2172
- Climate of the penultimate ice age according to data from an antarctic ice core. Kotliakov, V.M., et al. [1993,rus] 50-4103
- Climate of the Qinghai-Xizang Plateau. Dai, J.X., ed. [1990,chi] 50-2173
- Climate of Xinjiang. Li, J.F., ed. [1991,chi] 50-2174
- Climatic changes in Northern Europe. Heino, R., et al. [1994,eng] 50-3183
- Climatic effects on terminus variations of a Norwegian glacier. Nesje, A., et al. [1995,eng] 50-1836
- Climatic features near the Tanggula Pass in the centre of the Tibetan Plateau. Zhang, Y.S., et al. [1995,eng] 50-4513
- Climatic variation of Xinjiang in recent 3000 years. Li, J.F., [1985,chi] 50-1996
- Climatology of high-latitude air pollution as illustrated by Fairbanks and Anchorage, Alaska. Bowling, S.A., [1986,eng] 50-4910
- Clouds in the Himalaya Mountains. March through May. Qian, Z.J., [1982,chi] 50-6611
- Comparison of air temperature and humidity in standard and experimental shelters at Lomnický štít. Gajar, B., et al. [1991,eng] 50-3523
- Comparison of load restriction timings determined using FHWA guidelines and frost tubes. Yesiller, N., et al. [1996,eng] 50-4752
- Comparison of methods used to create estimate of air-freezing index. Steurer, P.M., et al. [1995,eng] 50-360
- Concurrent ozone and temperature trends derived from ozone-sonde stations. Fortuin, J.P.F., et al. [1995,eng] 50-1774
- Conditions for the formation of extreme average daily air temperatures in the fall in the Kara Sea. Korzhikov, A.I.A., [1990,rus] 50-321
- Cycling around the South Pole. Yuan, X.J., et al. [1996,eng] 50-4211
- Danger by the numbers—meaningful cold weather indicators. Shacham, M., et al. [1995,eng] 50-1646
- Data filtering for thermal mapping of road surface temperatures. Shao, J., et al. [1995,eng] 50-775
- Degradation of Arctic ice cap islands from climatic warming. Ignat'eva, I.I.U., et al. [1993,rus] 50-883
- Dentrification of the polar winter stratosphere. Hamill, P., et al. [1990,eng] 50-6000
- Detection of climate change in the Arctic: an updated report. Ye, H.C., et al. [1994,eng] 50-3026
- Determination of snowmelt factor in the Himalayan region. Singh, P., et al. [1996,eng] 50-5705
- Development of a climate generator for Finland. Il. Posch, M., [1994,eng] 50-3227
- Differentiation of temperature and water vapor pressure during summer in NW Spitsbergen. Wójcik, G., et al. [1989,pol] 50-2909
- Differentiation of three-dimensional temperatures and atmospheric humidity (Spitsbergen). Przybylak, R., [1989,pol] 50-2906
- Distribution of $\delta^{18}O$ in precipitation on the Qinghai-Xizang Plateau. Zhang, X.P., et al. [1995,eng] 50-4512
- Doppler spectroscopy of antarctic wind velocities. Nakajima, H., et al. [1995,eng] 50-3811
- DTR and cloudcover in the Nordic countries: observed trends and estimates for the future. Kaas, E., et al. [1994,eng] 50-3027
- Effect of perennial rock freezing on the water saturation of coal basins. Elisafenko, T.N., [1985,rus] 50-249
- Effect of snow cover anomaly on global climate. Krenke, A.N., et al. [1995,rus] 50-3969
- Effect of soil-ground and surface conditions on the insulating properties of snow cover. Konstantinov, P.I.A., [1996,rus] 50-6393
- Effects of long-term elevation in air temperature and CO₂ concentration on frost hardness of Scots pine. Repo, T., [1994,eng] 50-3213
- Effects of temperature and solar radiation on glacier melting. Drodov, O.A., et al. [1973,rus] 50-432
- Eking out icing into. Hamm, J., [1995,eng] 50-3687
- Estimation of daily evapotranspiration from one time-of-day thermal infrared temperature. Li, F.Q., et al. [1990,chi] 50-6662
- Estimation of snowmelt volume using air temperature and wind speed. Hasebe, M., et al. [1995,eng] 50-1958
- European paleoclimatic changes based on coleopteran analysis. Coope, G.R., et al. [1995,eng] 50-6565

- Evidence of a 22-year cycle in air temperature. Ol', A.I., et al. [1991,rus] 50-1639
- Experimental voyage through Northern Sea Route. Yamaguchi, H., [1996,eng] 50-4425
- Features of the regime and dynamics of the East Aksu glacier in the Kungey Alatau range. Fateev, V.P., et al. [1973,rus] 50-429
- Features of using climatic data in calculating rock temperatures in mountainous countries. Leibman, M.O., [1983,rus] 50-315
- Forecasting earth surface temperature for the optimal application of frost protection methods. Krasovitski, B., et al. [1996,eng] 50-5021
- Formation of the air temperature field in the eastern Arctic and its effect on navigation. Dmitriev, A.A., [1990,rus] 50-334
- Formation of the cryo-ecological segment in Central Yakutia. Fedorov, A.N., [1996,rus] 50-6843
- Formation of the winter temperature-wind complex in the Kola Bay region. Zykova, G.G., [1992,rus] 50-1275
- Frost-free record reconstruction for eastern Massachusetts, 1733-1980. Baron, W.R., et al. [1984,eng] 50-4915
- Greenhouse effect and the global environmental changes. Obrębska-Starkel, B., et al. [1991,pol] 50-5003
- Greenland and United Kingdom paleotemperature comparisons from Greenland snow accumulation rates. Lowe, J.J., et al. [1995,eng] 50-1082
- Heat balance study of melting coefficient. Yamazaki, T., [1995,jpn] 50-1172
- Heat flow in the lithosphere in the western Siberian platform. Deviatkin, V.N., et al. [1996,rus] 50-6392
- Ice shelf breakup. Fahnestock, M., [1996,eng] 50-3490
- Icefield Ranges climatology program: 1965 data presentation and programming analysis. Marcus, M.G., et al. [1966,eng] 50-3975
- Impact of Antarctica on surface air temperatures in the southern polar region. Liubarskii, A.N., [1993,rus] 50-4506
- Innovations on a quartz crystal microbalance frost-point hygrometer. Kaluzhny, M., et al. [1995,eng] 50-414
- Integral indicator of atmosphere and ocean state in the eastern Arctic. Dmitriev, A.A., et al. [1990,rus] 50-335
- Investigation of the surface condition in Taklimakan Desert. Tsuchiya, K., et al. [1991,jpn] 50-1426
- Isotopic calibration of Canadian arctic climatic change records. Beltrami, H., et al. [1995,eng] 50-3682
- Lake ice and its remote sensing monitoring in the Tibetan Plateau. Chen, X.Z., et al. [1995,chi] 50-5634
- Late Pleistocene equilibrium-line reconstructions in the northern Peruvian Andes. Rodbell, D.T., [1992,eng] 50-2549
- Lidar observations of stratospheric temperature above McMurdo Station, Antarctica. Di Donfrancesco, G., et al. [1996,eng] 50-5605
- Little Ice Age temperature estimated by arctic heather growth variations. Havström, M., et al. [1995,eng] 50-1121
- Long-term arctic stratospheric temperature variations. Nagatani, R.M., et al. [1990,eng] 50-5978
- Long-term snow variations at Nagaoka, Japan. Nakamura, T., et al. [1996,eng] 50-4898
- Long-term variability of the atmospheric circulation over Spitsbergen. Niedzwiedz, T., [1993,eng] 50-2182
- Low cloud icing climatological data. Takasugi, S., [1970,eng] 50-4405
- Mean annual air temperature trends since 1904 in the South Shetland Islands. Han, J.K., et al. [1995,chi] 50-5639
- Mesoscale and microscale structure of a severe ice pellet storm. Hapiesiak, J.M., et al. [1995,eng] 50-1526
- Mesospheric ozone investigations in south polar regions. Brezgin, N.I., et al. [1992,rus] 50-136
- Meteorological conditions of the antarctic ozone hole. Cisneros, J.M., [1990,spa] 50-5527
- Meteorological factors in the Himalaya Mountains, March through May. Wen, C.J., et al. [1982,chi] 50-6610
- Meteorological observations at Showa Station by JARE-33 in 1992. Matsuhara, K., et al. [1995,jpn] 50-4554
- Model of predicting snow disaster using NOAA/AVHRR data in Nagqu area of Xizang. Lu, A.X., et al. [1995,chi] 50-3987
- Modeling the surface heat flux response to long-lived SST anomalies in the North Atlantic. Power, S.B., et al. [1995,eng] 50-639
- Moisture profiling of the cloudy winter atmosphere using combined remote sensors. Stankov, B.B., et al. [1995,eng] 50-158
- Mountainous meteorology, climatology and aerology of the lower layers of troposphere. Panenka, I., ed. [1991,eng] 50-3518
- Natural orthogonal components of winter anomalies in the surface air temperature field. Vangengeim, T.G., et al. [1990,rus] 50-332
- Noctilucent clouds and the thermal structure near the arctic mesopause in summer. Lübken, F.J., et al. [1996,eng] 50-5453
- On forecasting extreme average daily air temperatures in the Kara Sea. Korzhikov, A.I.A., [1990,rus] 50-324
- On the polar stratospheric cloud formation potential of the northern stratosphere. Pawson, S., et al. [1995,eng] 50-2116
- Permafrost along the Xining-Zhangye Highway. Wang, S.L., et al. [1995,chi] 50-5628
- Permafrost and glaciers of Upper Engadin, Switzerland. Hölzle, M., [1994,ger] 50-2771
- Pliocene climates: the nature of the problem. Crowley, T.J., [1996,eng] 50-6624

Air water interactions

- Polar stratospheric clouds observed by lidar at McMurdo Station during the 1993 winter. Adriani, A., et al. [1994,eng] 50-4239
- Potential ice ablation in the USSR. Khodakov, V.G., et al. [1972,rus] 50-522
- Precipitation sensitivity to cloud microphysical parameters. Liu, Y.Q., et al. [1996,eng] 50-4353
- Precipitation, snow conditions and air temperature in Austria in the period 1981-1990. [1994,ger] 50-4266
- Probability distributions used in 100-year return period of air-freezing index. Steurer, P.M., [1996,eng] 50-4753
- Qinghai-Xizang Plateau as a source region for climatic changes. Tang, M.C., et al. [1992,chi] 50-1479
- Radiative effects of polar stratospheric clouds. Kinne, S., et al. [1990,eng] 50-5986
- Radiative heating rates during the Airborne Arctic Stratospheric Expedition. Rosenfield, J.E., et al. [1990,eng] 50-5981
- Recent climate changes in southern Patagonia. Ibarzabal y Donangelo, T., et al. [1996,eng] 50-5513
- Recent climatic trend and thermal response of permafrost in Sal-luit, northern Quebec, Canada. Wang, B.L., et al. [1996,eng] 50-6699
- Recent trends in maximum and minimum temperature threshold exceedances in the northeastern United States. DeGaetano, A.T., [1996,eng] 50-6572
- Reconstructed model of trace gases vertical distribution. Karol', I.L., et al. [1995,eng] 50-625
- Reconstructing the climate of the Little Ice Age and its model-ing. Kislov, A.V., et al. [1995,rus] 50-3773
- Reconstruction of the paleotemperature of the air according to ground ice isotopes. Koniakhin, M.A., [1990,rus] 50-1632
- Record low ozone at McMurdo Station in spring of 1993. Johnson, B.J., et al. [1994,eng] 50-4238
- Record low Siberian ozone levels. Bojkov, R.D., et al. [1995,eng] 50-1212
- Reestablishing periodic meteorological values at an avalanche station. Kharitonov, G.G., [1991,rus] 50-11
- Relations between weather systems affecting Tibetan Plateau and oxygen isotope in precipitation. Zhang, X.P., et al. [1995,chi] 50-5619
- Relationship between snow cover boundary and air temperature. Kislov, A.V., [1994,eng] 50-6093
- Relationship between temperature and glacier melting with mid-dle troposphere temperature. Volkova, M.V., et al. [1973,rus] 50-433
- Relationship of tropospheric dry layers to freezing precipitation type. Smith, G., [1995,eng] 50-6684
- Results of testing of prognostic relationships for more accurate general meteorological forecasts. Bolotinskaia, M.Sh., et al. [1990,rus] 50-328
- Role of January in the character of recent winters in the United States. Diaz, H.F., [1984,eng] 50-4914
- Satellite sounding of arctic stratospheric temperatures. Claud, C., et al. [1996,eng] 50-3445
- Sensible heat flux measurements near a cold surface. Yen, Y.-C., [1995,eng] 50-879
- Sensor mapping of arctic wetland distribution. Morrissey, L.A., et al. [1996,eng] 50-4764
- Siberian future climate predictions. Volkova, V.S., et al. [1995,eng] 50-6584
- Small-scale waves encountered during AASE. Bacmeister, J.T., et al. [1990,eng] 50-5982
- Snow and ice cover and climate sensitivity. Oerlemans, J., et al. [1995,eng] 50-3246
- Snow and sea ice correlation to Chinese summer air tempera-tures. Fu, C.B., [1983,eng] 50-4099
- Snowmelt modelling by combining air temperature and a dis-tributed radiation index. Cazorzi, F., et al. [1996,eng] 50-5689
- Solar irradiance, air pollution and temperature changes in the Arctic. Stanhill, G., [1995,eng] 50-5231
- Space-time distribution of temperature inversions in the arctic atmospheric boundary layer. Nagurnyi, A.P., [1995,eng] 50-2728
- Statistical analysis of precipitation and air temperature in the southern Patagonia icefield. Peña, H., et al. [1992,eng] 50-381
- Statistical characteristics of average daily air temperatures in the Arctic. Grakhovskii, G.N., [1990,rus] 50-322
- Stratospheric temperature variations in the north polar vortex. Zurek, R.W., et al. [1996,eng] 50-3070
- Stratospheric temperatures during AASE: results from STRA-TAN. Rood, R.B., et al. [1990,eng] 50-5979
- Stratospheric temperatures during the 88-89 northern hemi-sphere winter. Newman, P.A., et al. [1990,eng] 50-5977
- Study on snowmelt runoff prediction using weekly weather fore-cast. Hattai, S., et al. [1995,eng] 50-1959
- Study on some problems of cold waves in Xinjiang. Xu, J.Q., et al. [1985,chi] 50-2175
- Summer air temperature in the nival-glacial belt of the Central Asian mountain massif. Lebedeva, I.M., [1993,rus] 50-4104
- Summer temperatures from an ice core at Law Dome. Han, J.K., [1989,chi] 50-6771
- Synoptic-statistical method of forecasting air temperature in the Arctic. Ivanov, V.V., [1990,rus] 50-329
- Temperature conditions in Iceland and the North Atlantic, 1901-1990. Einarsson, M.A., [1993,eng] 50-4770
- Temperature fluctuations in climatic optima in the Holocene and Pleistocene. Klimanov, V.A., et al. [1995,rus] 50-4117
- Temperature regime of artificially compacted snow of the Molo-dezhnaya runway. Nazarov, V.D., [1992,rus] 50-147

- Temporal and spatial variation of CO₂, CH₄ and N₂O fluxes in a boreal minerotrophic pine fen. Silvola, J., et al. [1994,eng] 50-3219
- Thermal differentiation in slopes of a small periglacial valley (Bellsund, Spitsbergen). Lanczont, M., et al. [1989,pol] 50-2910
- Thermal environments of arctic soil organisms during winter. Coulson, S.J., et al. [1995,eng] 50-2811
- Thickness and ablation measurements of Fremont Glacier, Wyo-ming. Naftz, D.L., et al. [1993,eng] 50-4796
- Tilting at wind chills. Horstmeyer, S., [1995,eng] 50-1645
- Tips on avoiding low-level icing. Schuyler, N., [1986,eng] 50-4403
- Total ozone concentrations during the antarctic spring anomaly of 1989. Brezgin, N.I., et al. [1992,rus] 50-135
- Transport dynamics of material carried in the Waldemar River in Spitsbergen during the 1985 summer season. Pietrucich, C., et al. [1989,pol] 50-2916
- Tropical alpine climates. Rundel, P.W., [1994,eng] 50-3045
- Turbulent transfer over an antarctic ice shelf. Vinje, T.E., [1969,eng] 50-3953
- Twenty-four hour course of wind temperatures at Arcowski Sta-tion (King George Island, South Shetlands). Wójcik, G., et al. [1989,pol] 50-2904
- Two-year simulation of the Great Lakes region with a coupled modeling system. Bates, G.T., et al. [1995,eng] 50-1566
- U.S. FROST: Data and Science Plan. Report from the U.S. Sci-ence FROST Workshop, 2 and 3 August 1993. Bromwich, D.H., ed. et al. [1993,eng] 50-3332
- Verification and effectiveness of a method for long range meteoro-logical forecasting in Antarctica. Rabstevich, S.V., [1990,rus] 50-330
- Vertical temperature gradient of the air in the high mountains of Central Asia. Davidovich, N.V., [1972,rus] 50-534
- Warm core in a polar low observed with a satellite microwave sounding unit. Forsythe, J.M., et al. [1996,eng] 50-4186
- Weather in the Himalaya Mountains, March through May. Qian, Z.J., [1982,chi] 50-6609
- Wind chill. Kalkstein, L.S., [1996,eng] 50-5002
- Winter 1994 weather and ice conditions for the Laurentian Great Lakes. Assel, R.A., et al. [1996,eng] 50-3294
- Air water interactions**
- 2xCO₂ experiment with prescribed changes in sea surface tem-perature. Mahouf, J.-F., et al. [1992,eng] 50-226
- Altimetry of North Atlantic subpolar current variations. White, M.A., et al. [1995,eng] 50-2778
- Antarctic macroalgae—sources of volatile halogenated organic compounds. Laturnus, F., et al. [1996,eng] 50-5594
- Arctic oceanography: marginal ice zones and continental shelves. Smith, W.O., Jr., ed. et al. [1995,eng] 50-1159
- Atmosphere-ocean interactions in the marginal ice zones of the Nordic seas. Guest, P.S., et al. [1995,eng] 50-1161
- Atmospheric bromine in the Arctic. Berg, W.W., et al. [1983,eng] 50-3650
- Atmospheric carbon emission from North Asian lakes: a factor of global significance. Semiletov, I.P., et al. [1996,eng] 50-5609
- Atmospheric CO₂ variations at Spitsbergen. Engardt, M., et al. [1996,eng] 50-3723
- Behavior of mercury in seawater to the northwest of the Antarc-tic Peninsula. Ruan, Z., [1989,chi] 50-6774
- Biological CO₂ pump in seasonally ice-covered waters. Leg-endre, L., [1996,eng] 50-6033
- Bromoform emission from ice algae and arctic ozone depletion. Buckley, P.T., [1993,eng] 50-700
- Catastrophic storm surges in the southern part of the Laptev Sea. Ashik, I.M., et al. [1995,eng] 50-2068
- Climate dynamics and global change. Lindzen, R.S., [1994,eng] 50-5242
- Computer network database for paleoclimatological studies. Roof, S.R., et al. [1996,eng] 50-5712
- Convergence band clouds along the west coast of Hokkaido. Kobayashi, F., et al. [1993,eng] 50-6040
- DOC storage in arctic seas: the role of continental shelves. Walsh, J.J., [1995,eng] 50-1165
- Earth rotation, ocean circulation and paleoclimate. Möner, N.A., [1995,eng] 50-6063
- Effect of ENSO and Eurasian snow cover on the Asian summer monsoon. Li, C.F., [1994,eng] 50-681
- Effect of local wind on the dynamics of a Norwegian fjord. Leth, O.K., [1995,eng] 50-4135
- Effects of sea ice cover on atmospheric methane over the Sea of Okhotsk. Lammers, S., et al. [1995,eng] 50-1147
- GCM modeling of the stratospheric dynamics and its coupling with chemistry. Cariolle, D., et al. [1995,eng] 50-1773
- GCM response to an antarctic polynya. Glowienka-Hense, R., [1995,eng] 50-3100
- Integral indicator of atmosphere and ocean state in the eastern Arctic. Dmitriev, A.A., et al. [1990,rus] 50-335
- Local circulation in a fjord and exchange of water with the adja-cent ocean. Asplin, L., [1995,eng] 50-4134
- Methane plumes near Bear Island, Barents Sea. Lammers, S., et al. [1995,eng] 50-748
- Observational studies and numerical simulations of marine con-vective boundary layers. Rao, G.S., [1994,eng] 50-673
- Past and present oceanic energy balance patterns. Newell, R.E., et al. [1989,eng] 50-5409
- Periodic variations in air-water gas exchange of Arctic Ocean insecticide pollutants. Jantunen, L.M., et al. [1995,eng] 50-1862

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- Physical oceanography of fjord-coast systems in Norway. Svendsen, H., [1995,eng] 50-4132
- Physicochemical properties and partitioning of organochlorine compounds in air and water. Falconer, R.L.M., [1994,eng] 50-688
- Polar lows in the Labrador Sea—a case study. Moore, G.W.K., et al. [1996,eng] 50-3821
- Release of volatile halogenated organic compounds by uniaigal cultures of polar macroalgae. Laturnus, F., [1995,eng] 50-1202
- Resolved: the Arctic controls global climate change. Alley, R.B., [1995,eng] 50-1167
- Sea-air exchange of sulfur, phosphorus, and nitrogen in marine aerosols over the Antarctic Peninsula waters. Chen, L.Q., et al. [1989,chi] 50-6775
- Simulation and observation of ice formation (freeze-over) in a lake. Fang, X., et al. [1996,eng] 50-5466
- Sources and distribution of sulfate in the Pacific atmosphere. Chen, L.Q., et al. [1989,chi] 50-6786
- Storm surges in Canadian waters. Murty, T.S., et al. [1995,eng] 50-1854
- Study of the surface circulation to the north of Bransfield Strait, Antarctica. de Souza, R.B., [1992,spa] 50-6663
- Sulfide oxidation products in the antarctic atmosphere. Davison, B., et al. [1996,eng] 50-5615
- Transfer coefficients of radon-222 across the sea surface. Kholuiskii, S.N., et al. [1995,rus] 50-4120
- Turbulent heat transfer in the atmosphere of the northern Euro-pean basin. Martem'ianova, E.S., [1992,rus] 50-1272
- Wind forcing of marine primary production in the northern atmospheric low-pressure belt. Sakshaug, E., et al. [1995,eng] 50-4130
- Airborne equipment**
- Congressional hearing on programs related to aircraft deicing. 1992. U.S. Congress. House. Committee on Public Works and Transportation. [1992,eng] 50-6204
- Design of an Airborne Imaging Microwave Radiometer. Paul, J.L., et al. [1992,eng] 50-3570
- Developing the U.S. Coast Guard's Airborne Dispersant Deliv-ery System capability. Bleicher, D., et al. [1995,eng] 50-5722
- Airborne radar**
- Application of synthetic aperture radar (SAR) imagery on ant-arctic glaciology. Takahashi, A., et al. [1995,jpn] 50-4553
- Dual multiparameter radar observations of intense convective storms. Brangi, V.N., et al. [1996,eng] 50-4597
- Helicopter-borne alpine glacier surveys using short pulse radar. Arcone, S.A., et al. [1992,eng] 50-55
- Impulse radar studies of interface roughness. Jezek, K.C., et al. [1992,eng] 50-60
- Measuring geophysical parameters of the Greenland ice sheet using airborne radar altimetry. Ferraro, E.J., et al. [1995,eng] 50-1881
- Model to retrieve precipitation rate profiles from airborne radar and radiometer measurements. Weinman, J.A., et al. [1992,eng] 50-3571
- Radar design for geophysical sounding. Oswald, G.K.A., [1992,eng] 50-64
- Waveform model for surface and volume scattering from ice and snow. Newkirk, M.H., et al. [1996,eng] 50-3886
- Aircraft**
- Air Transport Options Workshop, to be held at the Antarctic Division, Hobart, Wednesday, 1 March 1995. Australia. Ant-arctic Science Advisory Committee. [1995,eng] 50-6417
- Airborne Polar Experiment. CNR Direzione Centrale Attività Scientifiche. [1994,eng] 50-6197
- Comments on "Production of ice particles in clouds due to air-craft penetrations". Mossop, S.C., et al. [1984,eng] 50-4917
- Concept of the cooperative air transport system in East Antarc-tica. Klokov, V., et al. [1994,eng] 50-4279
- Congressional hearing on programs related to aircraft deicing. 1992. U.S. Congress. House. Committee on Public Works and Transportation. [1992,eng] 50-6204
- Flameout, preventing ice and water ingestion flameouts in high-and low-bypass turbine engines. [1989,eng] 50-2985
- Helicopter services for USAF and NZAP. Petroleum Helicopters, Inc., [1996,eng] 50-5925
- Impact of stratospheric flight on ozone and water vapor. Rind, D., et al. [1995,eng] 50-627
- Introductory analysis of boundary-layer development on de/anti-icing fluid. Perron, E., et al. [1996,eng] 50-4217
- Predicting winter weather. Williams, J., [1995,eng] 50-3686
- Workshop on Antarctic Air Transport Networks. Council of Managers of National Antarctic Programs. [1995,eng] 50-6270
- See [also]: Airplanes; Balloons; Helicopters
- Aircraft icing**
- Aircraft deicing. Roed, A., [1992,eng] 50-2983
- Aircraft icing forecasts for instrument flight rules. Bertorelli, P., [1992,eng] 50-3761
- Aircraft icing handbook. [1993,eng] 50-5064
- Aircraft icing over northwest Europe. Ashley, H., [1979,eng] 50-4402
- Aircraft icing risk assessment for instrument flight rules. Ber-torelli, P., [1992,eng] 50-3759
- Airfoil with integral de-icer using overlapped tubes. Rauchhorst, R.L., [1993,eng] 50-2338
- Apparatus for measuring ice distribution profiles. Gerardi, J.J., et al. [1995,eng] 50-3482
- ATC and the icing dilemma. Glines, C.V., [1992,eng] 50-2982

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Albedo

- Automated aircraft icing forecast technique project report. Mansur, M.V., [1984,eng] 50-4619
- Aviation meteorology for visual and instrument flight rules: aircraft icing. McCool, K.B., [1992,eng] 50-3706
- Aviation weather: forces to be reckoned with. Taylor, R.L., [1991,eng] 50-6498
- Balancing safety and the environment. Mericas, D., et al., [1994,eng] 50-2123
- Beware carb ice. [1992,eng] 50-3799
- Biological treatment of waste water containing glycols from de-icing agents. Nitschke, L., et al., [1996,eng] 50-3619
- Carburetor ice gremlin? [1990,eng] 50-3573
- Characteristics of surface roughness associated with leading-edge ice accretion. Shin, J.W., [1996,eng] 50-4407
- Clean wings for winter. Steenblik, J.W., [1992,eng] 50-2981
- Cold weather operations. [1983,eng] 50-3792
- Comments on "Production of ice particles in clouds due to aircraft penetrations". Mossrop, S.C., et al., [1984,eng] 50-4917
- Comparison of aircraft icing forecast models. Cornell, D., et al., [1995,eng] 50-2471
- Composition for an anti-icing coating. Bochmanov, A.D., et al., [1992,rus] 50-1920
- Confirming airworthiness prior to takeoff in icing conditions—pilot options. Elovanta, J.T., [1992,eng] 50-3798
- Congressional hearing on programs related to aircraft deicing, 1992. U.S. Congress. House. Committee on Public Works and Transportation, [1992,eng] 50-6204
- Cratering phenomena on aircraft anti-icing films. La Due, J., et al., [1996,eng] 50-4219
- De-icer. Briscoe, J.A., et al., [1988,eng] 50-2333
- Detection of possible aircraft icing in clouds by passive-active radars. Tarabukin, I.A., et al., [1992,eng] 50-3569
- Detector for indicating ice formation on the wing of an aircraft. Luukkala, M., [1995,eng] 50-3472
- Effects of anti-icing fluid on wing lift during supercooled precipitation. Bouchard, G., et al., [1995,eng] 50-3255
- Eking out icing info. Hamm, J., [1995,eng] 50-3687
- Elastic wave sensing system. Liu, Y., et al., [1995,eng] 50-3471
- Electro-impulse de-icer. Adams, L.J., [1995,eng] 50-3469
- Electromagnetic wave attenuating and deicing structure. Webster, S.D., et al., [1991,eng] 50-2343
- Evaluation of aircraft icing forecasts for the continental United States. Politovich, M.K., et al., [1991,eng] 50-3267
- Evaluation of the proposed ASOS freezing rain sensor. Ramsay, A.C., [1996,eng] 50-4034
- Extreme warm frontal icing on 25 February 1994 causes an aircraft accident near Utoxeter. Pike, W.S., [1995,eng] 50-2796
- Flameout: preventing ice and water ingestion flameouts in high- and low-bypass turbine engines. [1989,eng] 50-2985
- Freezing-rain reporting capability of the Automated Surface Observing System (ASOS). Ramsay, A.C., [1996,eng] 50-5334
- Fuzzy-controller for flow and mixture regulation in an aircraft deicing vehicle. Knappe, H., [1993,eng] 50-2298
- Ground and aircraft weather observations and in-flight aircraft icing. Bernstein, B.C., et al., [1996,eng] 50-5373
- Ground deicing problems cause accidents. Sumwalt, R.L., III, [1993,eng] 50-2991
- Ground deicing. George, F., [1995,eng] 50-3688
- Ice detection apparatus for transportation safety. Stolarczyk, L.G., et al., [1995,eng] 50-3475
- Ice detection for turboprop aircraft. Render, P.M., et al., [1995,eng] 50-3691
- Ice in the intake causes close call. [1990,eng] 50-3572
- Ice is where you find it. Steenblik, J.W., [1995,eng] 50-4705
- Ice-preventive covering. Persson, S., et al., [1992,eng] 50-2232
- ICEYE: development of an aircraft ice accretion warning and monitoring system. Slaba, J., et al., [1995,eng] 50-4036
- Icing conditions encountered by a research aircraft. Sand, W.R., et al., [1984,eng] 50-4493
- Icing degrades aircraft performance: fluids provide best defense against ice on the ground. [1992,eng] 50-3575
- Icing menace, part II. Glines, C.V., [1990,eng] 50-2987
- Icing menace. Glines, C.V., [1989,eng] 50-2986
- Icing: performance issues. Wagner, G.A., [1990,eng] 50-2988
- Industry researchers develop variety of ice sensors. Hughes, D., [1993,eng] 50-481
- Inflight icing part II: making hard choices. Steenblik, J.W., [1995,eng] 50-4703
- Inflight icing part III: operations. Steenblik, J.W., [1995,eng] 50-4704
- Inflight icing: certification vs. reality. Steenblik, J.W., [1995,eng] 50-1962
- Intercomparison of mesoscale forecasts of aircraft icing using SSM/I retrievals. Tremblay, A., et al., [1996,eng] 50-4524
- Investigation into ice detection parameters for turboprop aircraft. Render, P.M., et al., [1996,eng] 50-4218
- Method and apparatus for remote detection and thickness measurement of ice or liquid layer. Gagnon, R.E., [1995,eng] 50-3483
- Method and apparatus for timed de-icing. Kugelman, M.M., et al., [1987,eng] 50-2334
- Microstructure and mechanical properties of some small impact ice accretions. Hammond, D.W., [1996,eng] 50-5339
- New ideas on aircraft icing forecast: first example and experiences. Fuchs, W., et al., [1995,eng] 50-203
- New U.S. rules established for aircraft ground deicing and anti-icing. [1992,eng] 50-3576
- Newest weapons in the battle against airframe icing. Czaplyski, V., [1994,eng] 50-2989
- No ice on board. Johnson, J.P., et al., [1995,eng] 50-1973
- Numerical forecasting of liquid water content to assess airframe icing risk. Lunnun, R.W., [1991,eng] 50-3266
- Numerical simulation of aircraft icing on wings and nacelles. Brahimi, M.T., et al., [1996,eng] 50-5392
- Part 135 icing: is half a reg better than none?. DiNunno, G., [1993,eng] 50-2990
- Pilot techniques during icing conditions. den Hertog, R., [1992,eng] 50-3795
- Potential icing forecast compared with NOAA-14 images. Fuchs, W., et al., [1996,eng] 50-5374
- Power loss in inclement weather. Volk, L., [1992,eng] 50-3796
- Preliminary results of ice-aluminum interfacial fracture toughness testing. Whelan, A.E., et al., [1995,eng] 50-2959
- Prevention of icing in the intakes of aerospace propulsors. Scott, J.L., et al., [1991,eng] 50-2236
- Production and depletion of supercooled liquid water in a Colorado winter storm. Politovich, M.K., et al., [1995,eng] 50-3560
- Program to improve aircraft icing forecasts. Sand, W.R., et al., [1991,eng] 50-3265
- Proposed icing severity index based upon meteorology. Politovich, M.K., et al., [1991,eng] 50-3263
- Research overview of ground de/anti-icing products. Bernardin, S., et al., [1996,eng] 50-5401
- Response of a research aircraft to icing and evaluation of severity indices. Politovich, M.K., [1996,eng] 50-4406
- Self-regulating deicer valve. Phillips, R.W., II, [1988,eng] 50-2244
- Small airline continues to win big battle against aircraft ground icing. [1992,eng] 50-3574
- Student invents a prize-winning ice detector. Rice, D., [1996,eng] 50-5084
- System for detecting ice or snow on surface which specularly reflects light. Stern, H., [1995,eng] 50-3476
- Tailplane stall: the time is one reason. Dow, J.P., Sr., et al., [1993,eng] 50-2978
- Test program for aircraft ground anti-icing fluids. Myers, B.B., [1992,eng] 50-3797
- Thermal anti-icing of aircraft structures. Arnold, M.J., et al., [1993,eng] 50-2234
- Thermal calculation for anti-icer with micro-ejector. Qui, X.G., et al., [1995,eng] 50-1067
- Tips on avoiding low-level icing. Schuyler, N., [1986,eng] 50-4403
- Turbine engine icing spray bar design issues. Bartlett, C.S., [1995,eng] 50-1654
- Turboprop tailplane icing. Steenblik, J.W., [1992,eng] 50-2979
- Unique aircraft icing event—a case study. Peters, J.L., [1990,eng] 50-4404
- Which deicing fluids should be used and how. DiNunno, G., [1992,eng] 50-2984
- Why icing causes tailplane stalls. Ingelman-Sundberg, M., [1992,eng] 50-2980
- Winter flying—helicopters. [1985,eng] 50-3794
- Winter flying. [1985,eng] 50-3793
- Aircraft landing areas**
- Air Transport Options Workshop, to be held at the Antarctic Division, Hobart, Wednesday, 1 March 1995. Australia. Antarctic Science Advisory Committee, [1995,eng] 50-6417
- Antarctic airfields. Mellor, M., [1995,eng] 50-1192
- Australian ice airstrip is a failure. Handmer, D., et al., [1990,eng] 50-3841
- Compacted snow runway technology at McMurdo. Blaisdell, G.L., et al., [1995,eng] 50-1193
- Concept of the cooperative air transport system in East Antarctica. Klokov, V., et al., [1994,eng] 50-4279
- Congressional hearing on programs related to aircraft deicing, 1992. U.S. Congress. House. Committee on Public Works and Transportation, [1992,eng] 50-6204
- Contributions to antarctic research IV. Elliot, D.H., ed, et al., [1995,eng] 50-1190
- Logistics in remote areas in Greenland. Andersson, T.I.H., et al., [1995,eng] 50-2967
- Pegasus: a glacial-ice runway for wheeled flight operations at McMurdo Station. Blaisdell, G.L., et al., [1995,eng] 50-6501
- Road and airfield development in the subarctic and Arctic, Alaska and northwest Canada. Rooney, J.W., et al., [1996,eng] 50-6186
- SNOTAMS: Advisories on airport snow and ice conditions. Hamm, J., [1996,eng] 50-3685
- Workshop on Antarctic Air Transport Networks. Council of Managers of National Antarctic Programs, [1995,eng] 50-6270
- See [also]: Airports; Ice runways; Runways
- Aircraft operations**
- Antarctic airfields. Mellor, M., [1995,eng] 50-1192
- Airplanes**
- Aircraft operation for earth science study in the Yamato Mountains by JARE 35. Funaki, M., [1995,jpn] 50-3496
- Canadian Air Force ice strip requirements. [1982,eng] 50-4594
- Damage to equipment and structures in the North. Novopashin, M.D., et al., [1993,rus] 50-465
- Impact of stratospheric flight on ozone. Pitari, G., et al., [1995,eng] 50-557
- Airports**
- Antarctic airfields. Mellor, M., [1995,eng] 50-1192
- Balancing safety and the environment. Mericas, D., et al., [1994,eng] 50-2123
- Overview of environmental and hydrogeologic conditions at Bethel, Alaska. Dorava, J.M., et al., [1995,eng] 50-2484
- Overview of environmental and hydrogeologic conditions at Bettles Field, Alaska. Cowan, J.R., [1995,eng] 50-2492
- Overview of environmental and hydrogeologic conditions at Chandalar Lake, Alaska. Cowan, J.R., [1995,eng] 50-2497
- Overview of environmental and hydrogeologic conditions at Cold Bay, Alaska. Rice, W.A., et al., [1995,eng] 50-2489
- Overview of environmental and hydrogeologic conditions at Farewell, Alaska. Dorava, J.M., et al., [1995,eng] 50-2485
- Overview of environmental and hydrogeologic conditions at Fort Yukon, Alaska. Nakanishi, A.S., et al., [1994,eng] 50-2482
- Overview of environmental and hydrogeologic conditions at Galena, Alaska. Nakanishi, A.S., et al., [1994,eng] 50-2481
- Overview of environmental and hydrogeologic conditions at Hinchinbrook Island, Alaska. Dorava, J.M., et al., [1995,eng] 50-2486
- Overview of environmental and hydrogeologic conditions at Iliamna, Alaska. Hall, J.D., [1995,eng] 50-2495
- Overview of environmental and hydrogeologic conditions at Nome, Alaska. Dorava, J.M., [1995,eng] 50-2488
- Overview of environmental and hydrogeologic conditions at Puntilla Lake, Alaska. Dorava, J.M., et al., [1995,eng] 50-2487
- Overview of environmental and hydrogeologic conditions at Sitka, Alaska. Hogan, E.V., [1995,eng] 50-2494
- Overview of environmental and hydrogeologic conditions at Tanana, Alaska. Nakanishi, A.S., et al., [1994,eng] 50-2483
- Overview of environmental and hydrogeologic conditions at Unalakleet, Alaska. Dorava, J.M., [1995,eng] 50-2496
- Overview of environmental and hydrogeologic conditions at Wrangell, Alaska. Hogan, E.V., [1995,eng] 50-2493
- Overview of environmental and hydrogeologic conditions near Big Delta, Alaska. Nelson, G.L., [1995,eng] 50-2490
- Overview of environmental and hydrogeologic conditions near Petersburg, Alaska. Hogan, E.V., [1995,eng] 50-2491
- Program to improve aircraft icing forecasts. Sand, W.R., et al., [1991,eng] 50-3265
- Route location and siting of roads and airfields. Schraeder, R.L., et al., [1996,eng] 50-6187
- Technique for nowcasting hourly snowfall. Chappell, C.F., et al., [1991,eng] 50-3262
- Thermal machine for clearing airport pavements of snow and ice. Mogutnov, A.A., [1992,rus] 50-1910
- Alasay**
- Characteristics of the development of thermo-erosional gullies on mid-alasay slopes. Varlamov, S.P., [1996,rus] 50-6405
- Cryogenic phenomena in the lithosphere. Gavrilov, A.V., et al., [1996,rus] 50-6352
- Dynamics of thermokarst relief on the Yukechinsk polygon. Bosikov, N.P., [1996,rus] 50-6400
- Evolution of lowland landscapes in northeastern Asia during Late Quaternary time. Tomirdiari, S.V., [1982,eng] 50-3370
- Albania**
- Note on rock glaciers in the Albanian Alps. Palmentola, G., et al., [1996,eng] 50-6702
- Albedo**
- 1990 arctic sea ice reduction related to snow cover minima. Serreze, M.C., et al., [1995,eng] 50-773
- Albedo of dirty snow during conditions of melt. Conway, H., et al., [1996,eng] 50-5969
- Albedo of forest with crown snow. Yamazaki, T., et al., [1996,jpn] 50-3501
- Albedo on snow surface in Patriot Hills, Antarctica. Shinohara, M., et al., [1995,eng] 50-4384
- Albedo. Kellogg, W.W., [1996,eng] 50-4974
- Antarctic cloud scattering depth using ground-based radiometry. Ricchiazzi, P., et al., [1995,eng] 50-1335
- Assessment of global climate model simulations of arctic air temperatures. Tao, X., et al., [1996,eng] 50-5532
- Bidirectional reflectance measurements of two snow types. Taylor, S., et al., [1995,eng] 50-3113
- Calculation of spectral albedo for a melt pond. Makshtas, A., et al., [1995,eng] 50-2066
- Characteristics of the meteorological regime of glaciers in Upper Svaneitia during ablation. Voloshina, A.P., et al., [1972,rus] 50-525
- Chemical and physical conversion in cold atmosphere and the effect of radiation. Kulmala, M., et al., [1994,eng] 50-3187
- Climatic implications of ice microphysics. Liou, K.N., [1995,eng] 50-958
- Detection and monitoring of H₂O and CO₂ ice clouds on Mars. Bell, J.F., III, et al., [1996,eng] 50-5195
- Determination of snowmelt factor in the Himalayan region. Singh, P., et al., [1996,eng] 50-5705
- Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al., [1996,eng] 50-4766
- Disposition of solar radiation in sea ice and the upper ocean. Ebert, E.E., et al., [1995,eng] 50-572
- Downwelling radiation fluxes at the arctic surface based on parameterizations. Silcox, R.A., [1994,eng] 50-5303
- Dusting river ice with leaf mulch to aid in ice deterioration. Haehnel, R.B., et al., [1996,eng] 50-6072
- Effect of color and texture on the surface temperature of asphalt concrete pavements. Berg, R.L., [1985,eng] 50-4362
- Effect of snow cover anomaly on global climate. Krenke, A.N., et al., [1995,rus] 50-3969
- Energy balance model for a small valley glacier, pt.1. Arnold, N.S., et al., [1996,eng] 50-4893

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- Energy characteristics of a mountain-glacier basin (in the example of the Aktru basin). Belova, N.I., [1973,rus] 50-425
- Environmental security and the NSR: a pan-Arctic challenge? Östregren, W., [1996,eng] 50-4451
- Estimation of surface albedo from NOAA AVHRR data in high latitudes. Laine, V., et al., [1996,eng] 50-5870
- Evidence of arctic-wide atmospheric aerosols from DMSP visible imagery. Shine, K.P., et al., [1984,eng] 50-4494
- Heat balance study of melting coefficient. Yamazaki, T., [1995,jpn] 50-1172
- Heat flux from leads in pack ice from a Landsat TM image. Lindsay, R.W., [1994,eng] 50-5179
- High-latitude climate change with an atmospheric coupled sea ice model. Washington, W.M., et al., [1996,eng] 50-6055
- Ice ages and the Milankovitch theory: a study of interactive climate feedback mechanisms. Cess, R.D., et al., [1979,eng] 50-2976
- Ice plate absorption of infrared radiation. Popov, A.A., et al., [1994,eng] 50-1284
- Model of cloudiness evolution in cirrus cloud masses. Khvorostanov, V.I., [1995,eng] 50-4749
- Model of Northern Hemisphere glaciation. Dong, B.W., et al., [1995,eng] 50-1328
- Modeling of snow reflectance in the visible and near infrared. Leroux, C., et al., [1995,fre] 50-4672
- Parameterization of surface albedo for sea ice and its snow cover. Barry, R.G., [1996,eng] 50-5014
- Permafrost and glaciers of Upper Engadin, Switzerland. Hölzle, M., [1994,ger] 50-2771
- Radiation and ozone data at Zhongshan and Great Wall stations, 1993-1994. Bian, L.G., et al., [1995,eng] 50-5916
- Radiation conditions on the Greenland ice sheet. Konzelmann, T., [1994,eng] 50-69
- Radiative fluxes and their impact on the energy balance of the Greenland ice sheet. Konzelmann, T., et al., [1995,eng] 50-1871
- Radiative properties of snow for clear sky solar radiation. Choudhury, B.J., [1979,eng] 50-3955
- Remote-sensing data used in a polar atmosphere and cryosphere study. Hirasawa, N., et al., [1995,jpn] 50-1695
- Saline ice sheet surface scattering with controlled roughness parameters. Bredow, J.W., et al., [1995,eng] 50-982
- Seasonal nitrogen cycles on Pluto. Hansen, C.J., et al., [1996,eng] 50-4347
- Shortwave reflectance properties of arctic tundra landscapes. Hope, A.S., et al., [1996,eng] 50-4845
- Simulation of climatic model of global snow cover evolution. Douville, H., et al., [1995,eng] 50-2736
- Small ice cap instability in the presence of fluctuations. Lee, W.H., et al., [1995,eng] 50-641
- Snow algae microbiology related to ultraviolet radiation effects. Thomas, W.H., et al., [1995,eng] 50-2814
- Snow and ice cover and climate sensitivity. Oerlemans, J., et al., [1995,eng] 50-3246
- Snow mass in boreal forests derived from a modified passive microwave algorithm. Foster, J.L., et al., [1995,eng] 50-3718
- SO₂ distributions on Io. Sartoretto, P., et al., [1996,eng] 50-6529
- Spectral albedos of Charon's surface composition. Roush, T.L., et al., [1996,eng] 50-4002
- Surface radiation budget. Svalbard and Antarctica, 1987. Yamanouchi, T., et al., [1995,eng] 50-2580
- Temporal weather impacts upon exterior intrusion detection systems. Ryerson, C.C., et al., [1995,eng] 50-4544
- Test of variant soil moisture conditions on the Canadian Global Forecast Model. Delage, Y., et al., [1995,eng] 50-1528
- Thermal balance of the surface of the Manukh Glacier. Voloshina, A.P., [1972,rus] 50-535
- Titan's surface: composition and variability from the near-infrared albedo. Coustenis, A., et al., [1995,eng] 50-2031
- Validation of climate model for snow cover variations. Douville, H., et al., [1995,eng] 50-2735
- Algae**
- Algae in terrestrial phytocoenoses of the east European Arctic. Patova, E., [1995,eng] 50-3175
- Algae populating drifting sea ice in Antarctica. Ligowski, R., [1989,pol] 50-2928
- Antarctic macroalgae—sources of volatile halogenated organic compounds. Laturus, F., et al., [1996,eng] 50-5594
- Applications of freshwater diatoms to geographical research. Moser, K.A., et al., [1996,eng] 50-5013
- Arctic algal communities in the region of the Nuvuk Islands, northeastern Hudson Bay, Canada. Keats, D.W., et al., [1989,eng] 50-3692
- Arctic kelp community in the Alaskan Beaufort Sea. Dunton, K.H., et al., [1982,eng] 50-3681
- Autumnal sea ice biota in polar seas. Hoshiai, T., et al., [1996,eng] 50-6031
- Biogenic emission of organobromine compounds to the Arctic Ocean and atmosphere. Sturges, W.T., et al., International Conference on Natural-Produced Halogens, Delft, The Netherlands, 1995. Edited by A. Grimwell and E.W.B. de Leer, [1995,eng] 50-4825
- Biological CO₂ pump in seasonally ice-covered waters. Legendre, L., [1996,eng] 50-6033
- Biology of high latitude kelp. Dunton, K.H., et al., [1995,eng] 50-4139
- Bromoform emission from ice algae and arctic ozone depletion. Buckley, P.T., [1993,eng] 50-700
- Carbon acquisition and growth of antarctic sea ice diatoms in closed bottle incubations. Gleitz, M., et al., [1996,eng] 50-5455
- Chlorophyll distribution in a body of fresh water covered with ice. Zavoruev, V.V., et al., [1996,eng] 50-5816
- Classification uncertainties within foraminifera species in McMurdo Sound, Antarctica. Bowser, S.S., et al., [1995,eng] 50-3345
- Climate change and biological oceanography of the Arctic Ocean. Gradinger, R., [1995,eng] 50-5233
- Consumption of nitrogen compound from snowpack by microbiological activity. Suzuki, K., et al., [1996,jpn] 50-6728
- Contribution of fast-ice algae to the spring phytoplankton bloom in Ellis Fjord, McMin, A., [1996,eng] 50-5271
- Diatoms in South Pole ice: implications for eolian contamination of Sirius Group deposits. Kellogg, D.E., et al., [1996,eng] 50-3387
- Dimethyl sulfide in the arctic atmosphere. Forek, R.J., et al., [1995,eng] 50-2850
- Distribution of sea-ice algae in Hudson Bay. Monti, D., et al., [1996,eng] 50-5211
- Effects of dehydration and freezing stress on brown algae. Pearson, G.A., et al., [1995,eng] 50-1523
- Fluxes of nutrients between benthic and planktic communities in the coastal zone of the Barents Sea. Kuznetsov, L.L., et al., [1995,eng] 50-3606
- Fossil charophytes from the Qaidam Basin. Tang, L.H., et al., [1991,chi] 50-2032
- Freezing driven upwelling in antarctic sea ice biological systems. Ackley, S.F., et al., [1996,eng] 50-6032
- Gamma emitters in the Barents Sea area. Matishov, D.G., et al., [1993,eng] 50-2191
- High resolution study of the platelet ice ecosystem in McMurdo Sound. Arrigo, K.R., et al., [1995,eng] 50-2522
- Hydrocarbons in antarctic ice algae. Fogelqvist, E., et al., International Conference on Natural-Produced Halogens, Delft, The Netherlands, 1995. Edited by A. Grimwell and E.W.B. de Leer, [1995,eng] 50-4824
- Ice algae biomass variations around Zhongshan Station. He, J.F., et al., [1995,chi] 50-3642
- Ice algal investigations: historical perspective. Horner, R.A., [1996,eng] 50-6030
- Identification of the Holocene-Pleistocene boundary in the Bering Sea by diatoms. Baldauf, J.G., [1982,eng] 50-3382
- Impact of climate change on carbon cycle in freshwater ecosystems. Kankaala, P., et al., [1994,eng] 50-3201
- Inorganic carbon uptake by an antarctic sea-ice diatom, *Nitzschia frigida*. Mitchell, C., et al., [1996,eng] 50-3404
- Isotope analysis of Arctic Ocean ice algae primary productivity. Hobson, K.A., et al., [1995,eng] 50-3359
- Life forms in antarctic sea ice. Dahms, H.U., [1992,ger] 50-646
- Marine snow in antarctic coastal waters. Marchant, H.J., et al., [1996,eng] 50-6034
- Microalgal light-harvesting in McMurdo Sound. Robinson, D.H., et al., [1995,eng] 50-106
- Microbial biology of melting Weddell Sea ice. Gleitz, M., et al., [1996,eng] 50-5677
- Microbial sea ice ecology at a coastal antarctic site. Archer, S.D., et al., [1996,eng] 50-5456
- Modeling the heating and melting of sea ice through light absorption by microalgae. Zeebe, R.E., et al., [1996,eng] 50-2844
- NORSMAP '89-Norwegian remote sensing spectrometry for mapping and monitoring of algal blooms and pollution. Pettersson, L.H., et al., [1992,eng] 50-622
- Occurrence of an algal bloom under arctic pack ice. Gradinger, R., [1996,eng] 50-4159
- Occurrence of net phytoplankton between Elephant I. and the southern passages. Koczyńska, E.E., et al., [1989,pol] 50-2927
- Occurrence of sub-ice algal aggregations off northeast Greenland. Gutt, J., [1995,eng] 50-163
- Oil pollution in Arctic waters. Futsaeter, G., et al., [1991,eng] 50-3421
- Paleoenvironmental history of a Canadian freshwater lake. Hickman, M., et al., [1996,eng] 50-6696
- Palmer ecological research program. Smith, R.C., et al., [1995,eng] 50-5944
- Pelagic bryozoan from Antarctica. Peck, L.S., et al., [1995,eng] 50-1827
- Periphytic diatom assemblages from high arctic ponds. Douglas, M.S.V., et al., [1995,eng] 50-1460
- Possibility of using soil algae in improving disturbed tundra lands. Dubovik, I.E., et al., [1994,rus] 50-280
- Proceedings of the NIPR Symposium on Polar Biology, No.9. Hirasawa, T., ed, NIPR Symposium on Polar Biology, 17th, Tokyo, Dec. 7-9, 1994, [1996,eng] 50-6029
- Radiation risk. Buckley, R.G., et al., [1990,eng] 50-1204
- Rational use of natural resources and protection of the zone of algae macrophytes in a northern region. Makarov, V.N., [1991,rus] 50-1311
- Release of volatile halogenated organic compounds by unalgal cultures of polar macroalgae. Laturus, F., [1995,eng] 50-1202
- Salinity tolerance of planktonic foraminifers in sea ice. Spindler, M., [1996,eng] 50-6035
- Satellite mapping of algal blooms and sea ice in the North Sea and Ussemeer. Roozkrans, H., [1994,eng] 50-1517
- Science news from The Ice: highlights from the 1994-1995 austral summer. Simarski, L., [1995,eng] 50-6500
- Seasonal variations in antarctic sea ice brine chemistry. Gleitz, M., et al., [1995,eng] 50-1117
- Snow algae microbiology related to ultraviolet radiation effects. Thomas, W.H., et al., [1995,eng] 50-2814
- Some regularities in the formation of algal flora in disturbed tundra ecosystems. Sharipova, M.I.U., et al., [1994,rus] 50-268
- Status of a Weddell Sea foraminifer. Berberich, D., [1996,ger] 50-3867
- Ultraviolet-B radiation and photosystem II activity in antarctic ice algae. Schofield, O., et al., [1995,eng] 50-2573
- Variables of cryopreservation of marine microalgae. Caffavate, J.P., et al., [1995,eng] 50-4327
- Water chemistry and periphyton in an alpine wetland. Toetz, D., [1995,eng] 50-4161
- Water column and sea-ice primary production during Austral spring in the Bellingshausen Sea. Boyd, P.W., et al., [1995,eng] 50-1027
- Alimentation**
- Variation in snowmelt alimentation of annual river runoff. Bolgov, M.V., et al., [1996,eng] 50-5860
- See [also]: Glacier alimentation
- Alkalinity**
- See [also]: Chemical properties
- All terrain vehicles**
- Cold weather tests of 4-wheeled armored military vehicle. Davis, J.B., et al., [1996,eng] 50-5665
- Cold weather tests of medium tactical vehicles. Storey, J.B., [1996,eng] 50-5655
- Design and analysis of a low speed drag plow for use in deep snow. Walsh, M.R., [1991,eng] 50-6198
- Jeeps along the Fjällur River: handbook of highland travel. Gislason, G.M., ed, [1994,ice] 50-2789
- Methodology for predicting for winter conditions in the NATO Reference Mobility Model. Ahlvin, R.B., et al., [1995,eng] 50-48
- Modelling vehicle mobility over multi-layered deep snowcover. Irwin, G.J., et al., [1995,eng] 50-50
- Soil deformation and stress analysis under a rolling wheel. Foster, W.A., Jr., et al., [1995,eng] 50-47
- See [also]: Tracked vehicles
- Alluvium**
- Analysis of stone size and shape in arctic environments. King, C.A.M., et al., [1968,eng] 50-5760
- Braided outwash fans in the Gulf of Alaska. Boothroyd, J.C., et al., [1975,eng] 50-4814
- Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996,rus] 50-6382
- Compressibility of perennally frozen loams in Chita. Torgashev, V.V., et al., [1993,rus] 50-126
- Cryogenic structure of surface deposits in Central Yakutia. Konchenko, L.A., [1996,rus] 50-6378
- Depositional sequence of the Quaternary period in Xinjiang. Peng, X.L., [1985,chi] 50-2005
- Depositional sequences in glaciolacustrine deltas. Gustavson, T.C., et al., [1975,eng] 50-4818
- Discharge and fluvial sediment transport in a semi-arid Andean catchment. Barsch, D., et al., [1994,eng] 50-1544
- Early Pleistocene glaciation in the Qinling Mountains of China. Rost, K.T., [1992,ger] 50-1682
- Erosion of the Laurentide region of North America by glacial and glaciofluvial processes. Bell, M., et al., [1990,eng] 50-1789
- Experience in biological recultivation of alluvial sandy soils in the Lena River floodplain. Poklonnaya, L.V., [1994,rus] 50-299
- Flux and preservation of organic carbon in Baffin Island fjords. Syvitski, J.P.M., et al., [1990,eng] 50-924
- Glaciofluvial and glaciolacustrine sedimentation. Jopling, A.V., ed, et al., [1975,eng] 50-4806
- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., [1995,eng] 50-2480
- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., et al., [1995,eng] 50-4039
- Interpretation of faults in glaciofluvial sediments. McDonald, B.C., et al., [1975,eng] 50-4810
- Late Pleistocene environment of north China. Zheng, H.H., et al., [1991,chi] 50-1844
- Late Pleistocene vegetation of eastern Beringia: pollen analysis of dated alluvium. Schweiger, C.E., [1982,eng] 50-3373
- Late Weichselian to early Holocene sedimentation in eastern Svalbard. Möller, P., et al., [1995,eng] 50-4716
- Late Wisconsinan outwash in southeastern British Columbia. Clague, J.J., [1975,eng] 50-4815
- Loess layer and the paleoclimate of northern piedmont of Tian Shan. Zhang, H.Y., et al., [1985,chi] 50-2003
- Model of frozen strata in the cryolithozone. Gravis, G.F., [1996,rus] 50-6373
- Nature of esker sedimentation. Banerjee, I., et al., [1975,eng] 50-4811
- Paleoenvironmental implications of modern periglacial eolian deposits. Dijkman, J.W.A., et al., [1991,eng] 50-5172
- Permafrost in glaciofluvial sediments of the last glaciation. Habbe, K.A., [1993,eng] 50-1678
- Permafrost, gelification and fluvial sediment transfer in the Austrian Alps. Veit, H., et al., [1993,eng] 50-1676
- Post-glacial mass flow and associated deposits in paleovalleys of Greenland. Collinson, J.D., et al., [1989,eng] 50-5168
- Predicting sediment load of Swiss rivers. Hunziker, R.P., [1995,ger] 50-4173

Alpine glaciation

- Proglacial fluvial and lacustrine environments. Church, M., et al. [1975,eng] 50-4808
- Quaternary periglacial conditions of a Himalayan river valley fill. Marh, B.S., et al. [1994,eng] 50-5548
- Quaternary terraces and related deposits in the western Wind River Basin, Wyoming. Jaworowski, C., [1993,eng] 50-702
- Recent fluvial sediment budgets in glacial and periglacial environments, NW Spitsbergen. Barsch, D., et al. [1994,eng] 50-1584
- Reinforcement percentage effects on bending strength of soil-ice mixtures. Nixon, W.A., et al. [1995,eng] 50-358
- Rhythmic sedimentation in Glacial Lake Hitchcock, Massachusetts-Connecticut. Ashley, G.M., [1975,eng] 50-4820
- Salinity of Quaternary deposits in the western Yamal Peninsula. Lakhina, O.V., et al. [1983,rus] 50-314
- Sediment transport and discharge in a high arctic catchment (Liefdefjorden, NW Spitsbergen). Barsch, D., et al. [1994,eng] 50-1545
- Sediment transport in glacial meltwater streams. Østrem, G., [1975,eng] 50-4809
- Sedimentary successions in Pleistocene ice-marginal lakes. Shaw, J., [1975,eng] 50-4819
- Sedimentology of the Brampton esker in Ontario. Sanderson, H.C., [1975,eng] 50-4812
- Slope erosion processes in the Alps. Becht, M., [1995,eng] 50-4829
- Slush stream phenomena—process and geomorphic impact. Barsch, D., et al. [1993,eng] 50-1674
- Soil formation in floodplains in high latitudes. Gafurov, F.G., et al. [1992,rus] 50-22
- Studies on Holocene fluvial geomorphodynamics on the upper Oberwieser. Thomas, J., [1993,ger] 50-2769
- Transport dynamics of material carried in the Waldemar River in Spitsbergen during the 1985 summer season. Pietruciech, C., et al. [1989,pol] 50-2916
- Alpine glaciation**
- 130 years deposition record of sulfate, nitrate and chloride from a high-alpine glacier. Döschner, A., et al. [1995,eng] 50-4079
- Alpine "loeman" and Holocene climatic change. Baroni, C., et al. [1996,eng] 50-6708
- Alpine base for glacier-regime studies in Uzbekistan. Konov, V.G., [1993,eng] 50-6343
- Alpine glacial advances derived from summer air temperature records. Bray, J.R., [1982,eng] 50-3380
- Alpine glacial history reconstruction in Wyoming and Argentina. Gosse, J.C., [1994,eng] 50-672
- Alpine glaciers in the Little Ice Age—catalogue and C¹⁴ documentation. Zumbühl, H.J., et al. [1990,ger] 50-3398
- Alpine glaciers in the Little Ice Age. Zumbühl, H.J., et al. [1988,ger] 50-3397
- Arcto-alpine and boreal elements in the high altitude flora of north west Himalaya. Gupta, R.K., [1994,eng] 50-5417
- Basal ice facies and their formation in the western Alps. Hubbard, B., et al. [1995,eng] 50-2805
- Basic features of glacial landforms in the Minshan. Tang, B.X., et al. [1994,eng] 50-4783
- Catastrophic mass movements in the mountains around the Qinghai-Xizang Plateau. Fort, M., et al. [1995,eng] 50-4835
- Characteristics of the post-glacial advance and retreat in Mount Xixia Bangma region. Zheng, B.X., [1982,chi] 50-6606
- Collected papers on the Quaternary in and region Xinjiang. Xinjiang University, Xinjiang Geology and Mineral Resources Bureau, Xinjiang Branch Academy of Sciences, [1985,chi] 50-1995
- Contributions to research on Tibet. Pörtge, K.H., ed. et al. [1994,ger] 50-4774
- Dating of soil development on Sierra Nevada moraines. Bach, A.J., et al. [1996,eng] 50-4630
- Debris transfer and sedimentary environments: alpine glaciated areas. Johnson, P.G., [1995,eng] 50-4828
- Distribution, growth, and variation of glaciers in the Kunlun Mountains. Zhang, Z.S., et al. [1986,chi] 50-1989
- Early Pleistocene glaciation in the Qinling Mountains of China. Rost, K.T., [1992,ger] 50-1682
- Englacial drainage influence on sediment transport pathways. Kirkbride, M., et al. [1996,eng] 50-6255
- Erosion rates and sediment evacuation by glaciers. Hallet, B., et al. [1996,eng] 50-5317
- Full-glacial shoreline vegetation during the maximum highstand at Owens Lake, California. Koehler, P.A., et al. [1994,eng] 50-1543
- Geomorphological altitude zones in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4775
- Glacial and fluvial geomorphology of western Himalaya (Liddar Valley). Kaul, M.N., [1990,eng] 50-5550
- Glacial drift and the glacial epoch in the Quaternary period of Xinjiang. Peng, X.L., [1985,chi] 50-2000
- Glacial evidence of climatic cooling during the Younger Dryas. Osborn, G.D., et al. [1995,eng] 50-4625
- Glacial overdeepened valleys in the Austrian Alps. Van Husen, D., [1990,ger] 50-1790
- Glaciers, snow and ice—dictionary of glaciology, snow and avalanche research in Switzerland. Ziehr, W., ed. [1993,ger] 50-3385
- Gravimetric investigation of permafrost on the Blockglaciers Murtel-Corvatsch (Oberengadin). Klingel, E., et al. [1993,ger] 50-4909
- Great Qinghai-Xizang ice sheet. Han, T.L., [1991,chi] 50-2176
- Hydrological bibliography of Switzerland for 1992. Sevrük, B., et al. [1992,ger] 50-5028

- Ice flow vectors on the debris-mantled Tasman Glacier, 1957-1986. Kirkbride, M., [1995,eng] 50-2717
- Icy indicators of global warming. Denniston, D., [1993,eng] 50-3344
- Inquiry on ice ages in Mount Xixia Bangma region. Shi, Y.F., et al. [1982,chi] 50-6605
- Late Quaternary climatic fluctuations of the Venezuelan Andes. Yurechik, R., ed. [1991,eng] 50-5643
- Late Quaternary glacial and climatic history of the Liddar Valley, Kashmir Himalaya. Kaul, M.N., [1994,eng] 50-5549
- Late-glacial advances in the western Italian Alps. Porter, S.C., et al. [1982,eng] 50-3383
- Little Ice Age evidence from a south-central North American ice core. U.S.A. Naftz, D.L., et al. [1996,eng] 50-4334
- Mapping alpine snow and ice using Landsat TM and SAR imagery at Wapta icefield. Brugman, M.M., et al. [1996,eng] 50-5545
- Meltwater drainage patterns from alpine glaciers. Collins, D.N., [1995,eng] 50-2430
- Moraines and ice scoured topographies in southern Patagonia. Yamada, S., [1992,eng] 50-380
- Not modelling but drowning. Edwards, R., [1995,eng] 50-1965
- On the paleoclimatology of the Tibetan Plateau during the last glaciation. Frenzel, B., [1994,ger] 50-4777
- On the Quaternary paleoglacial action of the northern Tianshan. Zhang, H.Y., [1985,chi] 50-2001
- On the sedimentary environment of the glaciofluvial terraces of the Tian Shan Mountains near Urumqi. Han, S.T., [1985,chi] 50-2002
- On the sedimentological character of alpine basal ice facies. Hubbard, B., et al. [1996,eng] 50-6259
- Paleohydrological changes in French mountains due to paleoclimatic changes. Magny, M., [1995,eng] 50-5038
- Pedogenic processes and evolution of the soils on moraines in alpine periglacial environments. Liu, G.N., et al. [1995,chi] 50-5631
- Pleistocene glaciations in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1993,eng] 50-1677
- Preliminary hydrological results from Sarenas glacier basin, French Alps. Barbet, D., et al. [1993,eng] 50-5690
- Quaternary geology and geomorphology of Mount Xixia Bangma region. Liu, D.S., et al. [1982,chi] 50-6602
- Quaternary glacial in the Andes. Heine, K., [1995,eng] 50-4837
- Quaternary glaciations in the eastern and central Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4776
- Quaternary periglacial conditions of a Himalayan river valley fill. Marh, B.S., et al. [1994,eng] 50-5548
- Report on the Mount Xixia Bangma region scientific expedition, 1964. [1982,chi] 50-6593
- Sedimentary and hydrologic processes within modern terrestrial valley glaciers. Lawson, D.E., [1995,eng] 50-3591
- Soil/weathering rate relations from glacial sediment chemical evolution. Taylor, A., et al. [1995,eng] 50-1806
- Study on the sequences of the Quaternary glaciations in the Bayan Har Mountains. Zhou, S.Z., [1995,chi] 50-5633
- Transit time of meltwaters in alpine glaciers. Collins, D.N., [1995,eng] 50-2429
- Variations of Upsala Glacier in southern Patagonia since the late Holocene to the present. Malagnino, E., et al. [1992,eng] 50-379

See [also]: Mountain glaciers

Alpine landscapes

- 1994 Lugee Tsho glacial lake outburst flood, Bhutan Himalaya. Watanabe, T., et al. [1996,eng] 50-4236
- A hydrochemical model for seasonally snow-covered alpine watersheds. Wolford, R.A., et al. [1996,eng] 50-4237
- Alpine ecosystem snow depths derived from tree damage. Woodridge, G.L., et al. [1996,eng] 50-4629
- Alpine ecosystem snow depths derived from tree damage. Woodridge, G.L., et al. [1996,eng] 50-4629
- Alpine glaciers in the Little Ice Age. Zumbühl, H.J., et al. [1988,ger] 50-3397
- Alpine plant diversity: a global survey and functional interpretations. Körner, C., [1995,eng] 50-3892
- Alpine tree line soil erosion derived from bedrock geomorphological map analysis. Stocker, E., [1996,ger] 50-6678
- Alpine vascular flora of the Tushar Mountains, Utah. Taye, A.C., [1995,eng] 50-1541
- Anatomy of tropical alpine plants. Carlquist, S., [1994,eng] 50-3049
- Arctic and alpine biodiversity: patterns, causes and ecosystem consequences. [1995,eng] 50-3888
- Asymmetric diurnal temperature change in the alpine region. Weber, R.O., et al. [1994,eng] 50-4790
- Avalanche incidents during the winter of 1993-94. Oberschmied, C., et al. [1994,ita] 50-1563
- Beetle microhabitat distribution in a glacier ablation zone. Gerben, B.A., [1995,eng] 50-2812
- Biomass diversity in arctic and alpine ecosystems. Pastor, J., [1995,eng] 50-3904
- Cation trace analysis of snow and firn samples from high-alpine sites by ion chromatography. Döschner, A., et al. [1995,eng] 50-594
- Channel erosion during flooding of alpine streams. Becht, M., [1996,ger] 50-5251
- Characterizing multitemporal alpine snowmelt patterns for ecological inferences. Allen, T.R., et al. [1993,eng] 50-1447
- Chemical and isotopic tracers of snowmelt flowpaths in a subalpine watershed. Miller, E.K., et al. [1995,eng] 50-2427

Alpine landscapes

- Climate change and snow-cover duration in the Australian Alps. Whetton, P.H., et al. [1996,eng] 50-4751
- Climate change and the alpine flora: some perspectives. Theurillat, J.P., [1995,eng] 50-1015
- Climate change, plant reproductive ecology, and population dynamics. Molau, U., [1995,eng] 50-1009
- Climatic controls on rates of solifluction: variations within Europe. Mathews, J.A., et al. [1993,eng] 50-849
- Climatic significance of bristlecone pine frost-ring records. Brunstein, F.C., [1996,eng] 50-4338
- Cold resistance mechanisms in high desert Andean plants. Squeo, F.A., et al. [1996,eng] 50-5774
- Cold tolerance in tropical alpine plants. Beck, E., [1994,eng] 50-3048
- Comparative water relations of tropical alpine plants. Meinzer, F.C., et al. [1994,eng] 50-3047
- Dating of Holocene solifluction in the Austrian Alps. Veit, H., [1993,eng] 50-826
- Dendrochronology of climatic change in mountain environment. Tessier, L., et al. [1995,eng] 50-1019
- Determination of alpine treeline variations from soil charcoal sediments. Carcaillet, C., et al. [1996,eng] 50-4746
- Dry depositional loading of nitrogen to an alpine snowpack, Niwot Ridge, Colorado. Cress, R.G., et al. [1995,eng] 50-2396
- Ecology of an alpine cushion plant. Owen, W.R., [1995,eng] 50-1540
- Ecophysiological sensitivity of terrestrial vascular plants to climate change. Jonasson, S., [1995,eng] 50-1007
- Effect of root fungi on subarctic plant growth. Fernando, A.A., et al. [1996,eng] 50-6747
- Effects of avalanche snow redistribution on summer streamflow variations. de Scally, F.A., [1996,eng] 50-4333
- Effects of climate change on alpine plant diversity and distribution. Guisan, A., et al. [1995,eng] 50-1016
- Effects of climate change on plant diversity and distribution. Holten, J.I., [1995,eng] 50-1006
- Evergreen shrub leaf variations in taiga and tundra landscapes. Kudo, G., [1995,eng] 50-2732
- Evolution of snow cover and avalanche activity in the Italian Alps during winter 1993-94. Lizzero, L., et al. [1994,ita] 50-1562
- Fluvial dynamics in the periglacial belt of the central Austrian Alps. Höfner, T., [1995,eng] 50-2751
- Fluvial sediment transfer in the Central Alps. Höfner, T., [1993,ger] 50-3335
- Functional significance of inflorescence pubescence in tropical alpine species of *Puya*. Miller, G.A., [1994,eng] 50-3053
- Genetic diversity of an arctic-alpine herb species. Bauert, M.R., [1996,eng] 50-5493
- Geological and geophysical exploration of alpine and peri-alpine glacial valleys. Pugin, A., et al. [1995,eng] 50-3315
- Germination properties of herb perennials on Mt. Fuji. Nishitani, S., et al. [1996,eng] 50-4343
- Gravimetric investigation of permafrost on the Blockglaciers Murtel-Corvatsch (Oberengadin). Klingel, E., et al. [1993,ger] 50-4909
- Growth curves for calcium-tolerant lichens in the Canadian Rocky Mountains. McCarthy, D.P., et al. [1995,eng] 50-3330
- Growth dynamics and population development in an alpine grassland under elevated CO₂. Schläppli, B., [1996,eng] 50-5779
- Growth responses of an alpine grassland to elevated CO₂. Schläppli, B., et al. [1996,eng] 50-5771
- Herb reproductive timing in relation to snow conditions. Morton, M.L., [1994,eng] 50-1542
- Holocene solifluction in the Swiss Alps: dating and climatic implications. Gamper, M., [1993,eng] 50-824
- Holocene evolution of a stretch of an eastern Italian alpine valley. Friz, C., et al. [1995,eng] 50-6697
- Hydrochemical processes during snowmelt in a subalpine watershed, Colorado, USA. Peters, N.E., et al. [1995,eng] 50-2423
- Hydrochemistry of remote high altitude lakes in the Himalayan region. Gosse, E., et al. [1993,eng] 50-4548
- Hydrologic pathways in an alpine watershed. Mast, M.A., et al. [1995,eng] 50-2418
- Impact of atmospheric changes on alpine vegetation: the ecophysiological perspective. Körner, C., [1995,eng] 50-1014
- Impacts of climate change on mountain ecosystems: future research and monitoring needs. Guisan, A., et al. [1995,eng] 50-1020
- Individual-based model of alpine plant distributions. Humphries, H.C., et al. [1996,eng] 50-3151
- Influence of pocket gophers on the status of nutrients in alpine soils. Litaor, M.I., et al. [1996,eng] 50-4951
- Introduction to Fennoscandian mountains. Holten, J.I., [1995,eng] 50-1004
- Introduction to tropical alpine vegetation. Smith, A.P., [1994,eng] 50-3044
- Italian research on solifluction in the Alps. Meneghel, M., [1993,eng] 50-827
- Landscape damage by skiing at the Schauinsland in the Black Forest, Germany. Ries, J.B., [1996,eng] 50-4234
- Lichenometric dating of alpine Little Ice Age moraines. Winkler, S., et al. [1995,ger] 50-3396
- Lichens of alpine meadows on the Beartooth Plateau, Montana and Wyoming. U.S.A. Eversman, S., [1995,eng] 50-2815
- Major paleohydrographic changes in alpine foreland during the Pliocene-Pleistocene. Petit, C., et al. [1996,eng] 50-6538

Alpine soils

Altitude

- Meteorological events on the Italian Alps during the winter of 1993-94. Costantini, N., et al. [1994,ita] 50-1561
- Micro-scale patterns of modern pollen deposition within three alpine plant communities. Pardoe, H.S., [1996,eng] 50-4253
- Micrometeorological effects on alpine vegetation reproduction. Bergman, P., et al. [1996,eng] 50-5494
- Morphological and physiological radiation in páramo *Draba*. Pfitsch, W.A., [1994,eng] 50-3051
- Mountain hemlock expansion in a subalpine ecosystem. Taylor, A.H., [1995,eng] 50-3321
- Mountain permafrost and slope instability in the Italian Alps: the Val Pola landslide. Dramis, F., et al. [1995,eng] 50-669
- New Zealand talus-derived rock glacier climatic responses. Kirkbride, M., et al. [1995,eng] 50-6561
- Nitrogen deposition and release in alpine watersheds, Loch Vale, Colorado, USA. Campbell, D.H., et al. [1995,eng] 50-2416
- Nivation in the High Tatras, Poland. Raczowska, Z., [1995,eng] 50-4193
- Niwot Ridge snow fence experiment: biogeochemical response to changes in the seasonal snowpack. Brooks, P.D., et al. [1995,eng] 50-2421
- Norwegian gelifluction stages from dated buried soils. Nesje, A., [1993,eng] 50-828
- Note on rock glaciers in the Albanian Alps. Palmentola, G., et al. [1996,eng] 50-6702
- On the connexion of vegetation dynamics with climatic changes in High Asia. Miche, G., [1996,eng] 50-5089
- Origin and evolution of the mountain flora in Middle Asia and neighbouring mountain regions. Agakhanian, O.E., et al. [1995,eng] 50-3893
- Overview of the reproductive biology of *Espeletia* (Asteraceae) in the Venezuelan Andes. Berry, P.E., et al. [1994,eng] 50-3056
- Ozone deposition in a snow-covered subalpine spruce-fir forest environment. Zeller, K., et al. [1995,eng] 50-2394
- Paleorecords of plant biodiversity in the Alps. Ammann, B., [1995,eng] 50-3896
- Páramo microclimate and leaf thermal balance of Andean giant rosette plants. Meinzer, F.C., et al. [1994,eng] 50-3046
- Patterns and current changes in alpine plant diversity. Grabherr, G., et al. [1995,eng] 50-3898
- Patterns, cause, changes and consequences on biodiversity in arctic and alpine ecosystems. Chapin, F.S., III, et al. [1995,eng] 50-3907
- Peat bog paleoclimatology and ecology adjoining an Italian glacier. Burga, C.A., [1995,fre] 50-862
- Permafrost and glaciers of Upper Engadin, Switzerland. Hölzle, M., [1994,ger] 50-2771
- Physical climatology of alpine tundra, Scout Mountain, British Columbia, Canada. Saunders, J.R., et al. [1996,eng] 50-4235
- Plant communities of the Bol'soj Chirchik River Valley, Barguzinskij Range, East Siberia. Chytrý, M., et al. [1995,eng] 50-4950
- Plant form and function in alpine New Guinea. Ntaliuk, R.J., [1994,eng] 50-3060
- Pleistocene stratigraphy of the Athabasca River valley region, Rocky Mountains, Alberta. Levson, V.M., et al. [1995,eng] 50-5037
- Pleistocene treeline fluctuation in the Swiss Alps. Tinner, W., et al. [1996,eng] 50-5487
- Population biology of Mount Kenya lobelias. Young, T.P., [1994,eng] 50-3057
- Population biology of *Senecio keniodendron* (Asteraceae)- and Afroalpine giant rosette plant. Smith, A.P., et al. [1994,eng] 50-3058
- Population dynamics of a Hawaiian alpine rosette plant. Rundel, P.W., et al. [1994,eng] 50-3059
- Possible responses of mountain vegetation to a global climatic change. Ozenda, P., et al. [1995,eng] 50-1017
- Potential ecological impacts of climate change in the Alps and Fennoscandian mountains. Guisan, A., ed. et al. [1995,eng] 50-1002
- Proceedings. International Symposium on Biogeochemistry of Seasonally Snow-covered Catchments, Boulder, CO, July 1-14, 1995. [1995,eng] 50-2391
- Processes controlling the chemistry of two snowmelt-dominated streams in the Rocky Mountains. Campbell, D.H., et al. [1995,eng] 50-2545
- Radar survey of French Alps snow cover. Bernier, M., et al. [1996,fre] 50-5542
- Recent white spruce dynamics at the subarctic alpine treeline of north-western Canada. Szeicz, J.M., et al. [1995,eng] 50-3036
- Response of alpine vegetation canopy to experimental wind barrier. Smith, B., et al. [1996,eng] 50-3786
- Rotifer ecology in high-altitude alpine sites. Jersabek, C.D., [1995,eng] 50-4163
- Runoff composition in a bedrock catchment watershed. Clow, D.W., et al. [1995,eng] 50-2415
- Saharan dust recorded in Swiss alpine snow cover. Schwikowski, M., et al. [1995,eng] 50-778
- Sediment-based carbon nutrition in tropical alpine *Isoetes*. Keeley, J.E., et al. [1994,eng] 50-3052
- Seed germination and seedling growth of *Carex doerrii* growing on alpine zone of Mt. Fuji. Kibe, T., et al. [1993,eng] 50-956
- Sensitivity of alpine plants to potential climate changes. Skre, O., [1995,eng] 50-1008
- Ski slope vegetation in central Honshu, Japan. Tsuyuzaki, S., [1995,eng] 50-1861
- Slope processes and climate in the Abisko Mountains, northern Sweden. Rapp, A., et al. [1993,eng] 50-836
- Snow algae microbiology related to ultraviolet radiation effects. Thomas, W.H., et al. [1995,eng] 50-2814
- Snow surface energy exchanges and snowmelt at a continental alpine site. Cline, D., [1995,eng] 50-2408
- Snowpack controls on soil nitrogen dynamics in the Colorado alpine. Brooks, P.D., et al. [1995,eng] 50-2420
- Snowpack influences on geomorphic processes in Green Lakes Valley, Colorado Front Range. Caine, N., [1995,eng] 50-1404
- Soil nutrient dynamics in East African alpine ecosystems. Rehder, H., [1994,eng] 50-3055
- Solifluction controls in the French Alps. Pissart, A., [1993,eng] 50-839
- Solifluction in northern Finland: past and present. Seppälä, M., [1993,eng] 50-830
- Solifluction in the Swiss Alps and Bolivia. Graf, K., [1993,eng] 50-838
- Spectral quality and absorption of solar radiation in a mountain birch forest, Abisko, Sweden. Ovsted, M., et al. [1995,eng] 50-2813
- Steep latitudinal gradient of solar ultraviolet-B radiation in the arctic-alpine life zone. Caldwell, M.M., et al. [1980,eng] 50-1410
- Streamwater quality variations in a Colorado alpine environment. Caine, N., [1995,eng] 50-4189
- Surface water chemistry in alpine watersheds. Stottelmyer, R., et al. [1995,eng] 50-2424
- Swiss alpine palaeoclimate during the Holocene: pollen analytical evidence and general features. Burga, C.A., [1993,eng] 50-825
- Tectonic significance of alpine eclogites. Spalla, M.I., et al. [1996,eng] 50-5572
- Tibetan alpine ecosystem response to climatic changes. Zhang, Y.Q., et al. [1996,eng] 50-5495
- Tree establishment in subalpine meadows. Woodward, A., et al. [1995,eng] 50-3322
- Tropical alpine climates. Rundel, P.W., [1994,eng] 50-3045
- Tropical alpine ecology: progress and priorities. Rundel, P.W., et al. [1994,eng] 50-3061
- Tropical alpine environments—plant form and function. Rundel, P.W., ed. et al. [1994,eng] 50-3043
- Turnover and conservation of nutrients in the pachycaul *Senecio keniodendron*. Beck, E., [1994,eng] 50-3054
- Two-year record of eolian sedimentation in the Wind River Range, Wyoming, U.S.A. Dahms, D.E., et al. [1996,eng] 50-5496
- Vegetation and ecology of tropical mires in the high Andes of northern Chile. Rutschatz, B., [1995,ger] 50-4530
- Water chemistry and periphyton in an alpine wetland. Toetz, D., [1995,eng] 50-4161
- Watershed hydrochemistry simulation. Ohte, N., et al. [1995,eng] 50-2410
- Weathering of aeolian dusts in alpine snows. Delmas, V., et al. [1996,eng] 50-4588
- Alpine soils**
See [also]: Mountain soils
- Alpine tundra**
Aerosol deposition to an alpine tundra ecosystem. Sievering, H., et al. [1996,eng] 50-5964
- Alpine bryophyte communities. Geissler, P., [1982,eng] 50-5413
- Arcto-alpine and boreal elements in the high altitude flora of north west Himalaya. Gupta, R.K., [1994,eng] 50-5417
- Assessment on the diversity and status of the alpine plants of Indian Himalaya. Samant, S.S., [1994,eng] 50-5424
- Characteristics of the photosynthetic apparatus of plants. Pliankov, V.I., et al. [1995,rus] 50-4107
- Climate change, plant reproductive ecology, and population dynamics. Molau, U., [1995,eng] 50-1009
- Ecological study in an alpine pasture of Bhagirathi Valley, Garhwal Himalaya. Rajwar, G.S., et al. [1994,eng] 50-5429
- Ecology and conservation of alpine meadows in central Himalaya, India. Ram, J., et al. [1994,eng] 50-5418
- Effects of grazing on alpine vegetation in the Caucasus and the Rockies. Bock, J.H., et al. [1995,eng] 50-73
- High altitude (above timber-line) bryoflora of Kumaun Himalaya. Tewari, S.D., et al. [1994,eng] 50-5431
- High altitude flora of western Himalaya: peculiarities and conservation. Aswal, B.S., [1994,eng] 50-5421
- High altitudes of the Himalaya (biogeography, ecology & conservation). Pangtey, Y.P.S., ed. et al. [1994,eng] 50-5415
- Himalaya, its ecology and biogeography: a review. Mani, M.S., [1994,eng] 50-5416
- Ladakh: an update on natural resources. Dhar, U., et al. [1994,eng] 50-5423
- Microbial responses to nitrogen additions in alpine tundra soil. Fisk, M.C., et al. [1996,eng] 50-6065
- Mycorrhizal diversity in arctic and alpine tundra: an open question. Gardes, M., et al. [1996,eng] 50-6550
- Permafrost, gelifluction and fluvial sediment transfer in the Austrian Alps. Veit, H., et al. [1993,eng] 50-1676
- Plant communities in alpine habitat with special reference to Garhwal Himalaya. Rawat, D.S., et al. [1994,eng] 50-5420
- Population-genetic differentiation in mountain Sukaczew larch. Timerjanov, A.Sh., et al. [1994,rus] 50-271
- Potential ecological impacts of climate change in the Alps and Fennoscandian mountains. Guisan, A., ed. et al. [1995,eng] 50-1002
- Preliminary habitat suitability index model for Himalayan musk deer. Rawat, G.S., [1994,eng] 50-5430
- Protected areas and conservation of rare endemic plants in the Himalaya. Rawat, G.S., [1994,eng] 50-5422
- Spatial energy budgets in alpine tundra. Greenland, D., [1993,eng] 50-4802
- Survey of fungal plant diseases in a part of high altitudes of central Himalaya. Bisht, G.S., et al. [1994,eng] 50-5432
- Tree seedling and krummholz growth in the forest tundra of Rocky Mountain National Park. Weisberg, P.J., et al. [1995,eng] 50-72
- Tussock grass community in a Himalayan alpine grassland. Rikhi, H.C., et al. [1994,eng] 50-5428
- Typification of USSR surface territory for the aerospace monitoring system. Apostolov, I.U.S., et al. [1992,rus] 50-3405
- Understanding the impact of climate change on mountain ecosystems: an overview. Guisan, A., et al. [1995,eng] 50-1003
- Vegetation dynamics and animal behaviour in an alpine pasture of the Garhwal Himalaya. Sundriyal, R.C., [1994,eng] 50-5427
- Vegetation patterns in the alpine zone of the Himalaya in eastern Nepal. Kikuchi, T., [1994,eng] 50-5419
- Alps**
Approaches to the establishment of future climate scenarios for the alpine region. Wanner, H., et al. [1995,eng] 50-1011
- Assessing sensitivities of forests to climate change. Fischlin, A., [1995,eng] 50-1018
- Climate change and the alpine flora: some perspectives. Theunil, J.P., [1995,eng] 50-1015
- Climate change impacts on glaciers and permafrost. Haeblerli, W., [1995,eng] 50-1012
- Climate change impacts on snow cover: modelling case studies in Switzerland and the French Western Alps. Baumgartner, M.F., et al. [1995,eng] 50-1013
- Dendrochronology of climatic change in mountain environment. Tessier, L., et al. [1995,eng] 50-1019
- Effects of climate change on alpine plant diversity and distribution. Guisan, A., et al. [1995,eng] 50-1016
- Introduction to the Alps. Aeschmann, D., et al. [1995,eng] 50-1010
- Possible responses of mountain vegetation to a global climatic change. Ozenda, P., et al. [1995,eng] 50-1017
- Potential ecological impacts of climate change in the Alps and Fennoscandian mountains. Guisan, A., ed. et al. [1995,eng] 50-1002
- Water balance of the Alps. Chernogayeva, G.M., [1973,rus] 50-436
- Altimetry**
See [also]: Height finding
- Atiplanation**
Features of nivation landforms in the Changbaishan Mts. Song, C.Q., et al. [1995,chi] 50-5627
- Frost denudation landforms at the hinterland on the Qinghai-Xizang Plateau. Zhang, W.X., et al. [1989,chi] 50-1354
- Periglacial denudation in the Richardson Mountains. Fried, G., et al. [1993,eng] 50-1675
- Periglacial landforms and sediments in Argentina. Trombadori, D., [1991,ger] 50-1684
- Periglacial phenomena found in Mount Xixia Bangma region. Zheng, B.X., et al. [1982,chi] 50-6607
- Pleistocene atiplanation in northern Chile. Kött, A., et al. [1995,eng] 50-4947
- Stratified slope deposits: the stone-banked sheets and lobes model. Bertran, P., et al. [1995,eng] 50-4834
- Altitude**
Comparative water relations of tropical alpine plants. Meinzer, F.C., et al. [1994,eng] 50-3047
- Germination properties of herb perennials on Mt. Fuji. Nishitani, S., et al. [1996,eng] 50-4343
- Late Pleistocene equilibrium-line reconstructions in the northern Peruvian Andes. Rodbell, D.T., [1992,eng] 50-2549
- Laws of distribution of the snow cover on the Greater Caucasus (Soviet Union). Gurtovaia, E.E., et al. [1965,eng] 50-3427
- Low cloud icing climatological data. Takasugi, S., [1970,eng] 50-4405
- Nunataks of the last ice sheet in northwest Scotland. McCarroll, D., et al. [1995,eng] 50-3366
- Overview of the reproductive biology of *Espeletia* (Asteraceae) in the Venezuelan Andes. Berry, P.E., et al. [1994,eng] 50-3056
- Paleoecological study of Pleistocene mountain vegetation patterns. Gregory, K.M., et al. [1996,eng] 50-5081
- Páramo microclimate and leaf thermal balance of Andean giant rosette plants. Meinzer, F.C., et al. [1994,eng] 50-3046
- Patterns and current changes in alpine plant diversity. Grabherr, G., et al. [1995,eng] 50-3898
- Population biology of *Senecio keniodendron* (Asteraceae)- and Afroalpine giant rosette plant. Smith, A.P., et al. [1994,eng] 50-3058
- Radiation frost susceptibility and the association between sky exposure and leaf size. Jordan, D.N., et al. [1995,eng] 50-2132
- Reexamination of the formation of exhaust condensation trails by jet aircraft. Hanson, H.M., et al. [1995,eng] 50-1248
- Rime climate in Sodankylä. Säänti, K., et al. [1992,eng] 50-3630
- Simulation of Pleistocene glacial limits in Yunnan, China. Aniya, M., et al. [1991,eng] 50-3307
- Tips on avoiding low-level icing. Schuyler, N., [1986,eng] 50-4403

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- Topographic controls on Norwegian Holocene glaciers fluctuations. Aa, A.R., [1996,eng] 50-4374
Topographical influence on Himalayan snow cover distribution. Singh, P., et al., [1995,eng] 50-4012
Tropical alpine climates. Rundel, P.W., [1994,eng] 50-3045
Tropical alpine environments—plant form and function. Rundel, P.W., ed. et al., [1994,eng] 50-3043
Vertical distribution of lichens on the mountain, Aucellabjerg, northeastern Greenland. Hansen, E.S., [1996,eng] 50-4344

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Amorphous ice

- Aerosol uptake by model polar stratospheric cloud surfaces. Graham, J.D., et al., [1996,eng] 50-4144
Amorphous ice molecular transitions under electron bombardment. Kimmel, G.A., et al., [1995,eng] 50-156
Cosmogeology: evolution of ice in interstellar space and the early solar system. Kouchi, A., et al., [1995,eng] 50-1030
Electron cryo-microscopy of graphite in amorphous ice. Botcher, B., [1995,eng] 50-1647
Electron-beam-induced amorphization of ice III or IX obtained by high-pressure freezing. Sartori, N., et al., [1996,eng] 50-6531
Electron-stimulated dissociation of amorphous ice. Kimmel, G.A., et al., [1995,eng] 50-2160
Enrichment of CO over N₂ by their trapping in amorphous ice and implications to comet P/Halley. Nosesco, G., et al., [1996,eng] 50-5834
Evaporation rate, free energy, and entropy of amorphous water at 150 K. Speedy, R.J., et al., [1996,eng] 50-5920
High-density amorphous ice, the frost on interstellar grains. Jenniskens, P., et al., [1995,eng] 50-2780
Ice/supercooled water linear correlation length from Raman spectroscopy. Walrafen, G.E., et al., [1995,eng] 50-152
Isotopic exchange during glass transition of amorphous ice. Fisher, M., et al., [1995,eng] 50-150
Molecular dynamics simulation of vapor deposited amorphous ice. Essmann, U., et al., [1995,eng] 50-419
Photochemistry of chlorine dioxide in ice. Pursell, C.J., et al., [1995,eng] 50-154
Radioactive heating of porous comet nuclei. Prialnik, D., et al., [1995,eng] 50-1464
Similarity of vibrational spectra of high-density amorphous ice and high-pressure phase VI. Kolesnikov, A.I., et al., [1995,eng] 50-937
Structural characteristics of hydrogen-bonded networks in water and ice systems. Dore, J.C., et al., [1995,eng] 50-2697
Structures and phase transitions of amorphous ices. Okabe, I., et al., [1996,eng] 50-5103
X-ray and neutron scattering studies of the structure of water at a hydrophobic surface. Bellissent-Funel, M.C., et al., [1996,eng] 50-5713

See [also]: Vitreous ice

Amorphous solid water

- Liquid water below 150K. Johari, G.P., et al., [1996,eng] 50-5444

Amphibious vehicles

- Arctic platform evacuation vehicle. [1990,eng] 50-5588

Analog simulation

See [also]: Computerized simulation

Analysis (chemistry)

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Analysis (mathematics)

- Acoustic wave perturbations within the Barents Sea Polar Front. Lynch, J.F., et al., [1996,eng] 50-4590
Active layer of perennally frozen ground as a natural self-regulating system. Krivoshechekov, V.S., [1996,eng] 50-6395
Algorithm for the solution to the axisymmetric problem of the mechanics of frozen rocks. Slepsov, V.I., [1992,eng] 50-813
Analysis of moisture transfer in the aeration zone of the cryolithosphere. Shepelev, V.V., [1996,eng] 50-6817
Analysis of periodic variations in paleoclimatic indicators. Bolton, E.W., et al., [1995,eng] 50-1216
Anisotropy coefficient of the electrical resistivity of frozen ground. Velikin, S.A., et al., [1995,eng] 50-2512
Attenuation of microwaves by spherical hail. Battan, L.J., et al., [1986,eng] 50-4639
Avalanche modeling in concave and convex chutes. Greve, R., et al., [1993,eng] 50-1209
Basis for statistical inferences in coastal injury assessment of Exxon Valdez oil spill. McDonald, L.L., et al., [1995,eng] 50-3922
Basis for the effectiveness of using semiconductor heat pumps for mining in the North. Slepsov, V.I., [1992,eng] 50-815
Calculating intermediate reserves of mountain massifs during open pit mining. Zarovniav, B.N., et al., [1992,eng] 50-798
Calculating the dimensions of a flat pillar. Kovalev, I.I., [1992,eng] 50-807
Calculating the heat transfer coefficient of dry snow. Brukhanda, V.I., et al., [1991,eng] 50-7
Calculating the reliability of a pipeline base, constructed on surface foundations. Maksimenko, S., et al., [1989,eng] 50-2250
Calculation of free energy for molecular crystals by thermodynamic integration. Baez, L.A., et al., [1995,eng] 50-1951
Calibration of time domain reflectometry for measurement of liquid water in frozen soils. Seyfried, M.S., et al., [1996,eng] 50-3308
Characteristics of the crystallization of water in unsaturated soils. Golubev, V.N., [1996,eng] 50-6810

Characteristics of the geocryological conditions in shallow water areas in the cryolithozone. Buldovich, S.N., [1996,eng] 50-6389

- Characteristics of the seasonal freezing of rocks in the Tien Shan. Severskii, E.V., [1996,eng] 50-6368
Comparison of two techniques for R-value calculation, using winter in-situ data. Flanders, S.N., et al., [1995,eng] 50-1979
Cooperative polarisation in ice I_h and the unusual strength of the hydrogen bond. Heggie, M.I., et al., [1996,eng] 50-3958
Correction to paper by Schulson and Nickolayev. Schulson, E.M., et al., [1996,eng] 50-4361
Creep of frozen soil by damage mechanics. Miao, T.D., et al., [1995,eng] 50-1556
Crystallisation and the glass transition in suspensions of hard colloidal spheres. van Megen, W., [1995,eng] 50-1223
Data filtering for thermal mapping of road surface temperatures. Shao, J., et al., [1995,eng] 50-775
Determination of the ice strength for calculation of the ice load. Bekker, A.T., et al., [1996,eng] 50-4462
Determining the bearing strength of frozen foundations with variable temperature. Kononov, A.A., [1989,eng] 50-2253
Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al., [1996,eng] 50-4766
Discussion of paper by Biggar et al. Juárez-Badillo, E., et al., [1995,eng] 50-582
Dispersion-force effects in interfacial premelting of ice. Wilen, L.A., et al., [1995,eng] 50-2134
Dynamic deformation characteristics of rock foundations in the cryolithozone. Voronkov, O.K., et al., [1995,eng] 50-2505
Dynamics of metastable states: mode-coupling theory and beyond. Dufty, J.W., et al., [1995,eng] 50-1221
Ecological protection in mining of minerals. Tsygankov, A.V., et al., [1992,eng] 50-818
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Effect of chemical composition of soils on the strength and deformability of frozen saline soils. Roman, L.T., [1995,eng] 50-632
Effects of roof size on snow loads. Irwin, P.A., et al., [1995,eng] 50-3010
Electromagnetic system and its use in electrometry of the cryolithozone. Badalov, V.D., et al., [1989,eng] 50-2306
Energy characteristics of a mountain-glacier basin (in the example of the Aktru basin). Belova, N.I., [1973,eng] 50-425
Estimating reserves of placer deposits. Tomskaia, T.N., [1992,eng] 50-797
Estimating the mean annual primary production and outflow of organic carbon in Antarctica. Tseitlin, V.B., [1995,eng] 50-6321
Estimation of ice hydrometeor types and shapes from radar polarization measurements. Matrosov, S.Y., et al., [1995,eng] 50-3609
Estimation of mean flow velocity in ice-covered channels—discussion. Engel, P., et al., [1996,eng] 50-6338
Estimation of reliability of permafrost beds. Gerasimov, A.S., [1995,eng] 50-344
Experimental analysis of breakup of kimberlites using charges of low density explosives. Bondarenko, I.F., [1992,eng] 50-800
Features of the regime and dynamics of the East Aksu glacier in the Kungey Alatau range. Fateev, V.P., et al., [1973,eng] 50-429
Features of using climatic data in calculating rock temperatures in mountainous countries. Leibman, M.O., [1983,eng] 50-315
Flowthrough rockfill embankments: behavior in subzero temperatures. Hansen, D., et al., [1995,eng] 50-1841
Forecasting avalanche flow during a snowfall using a weighted value method. Sezin, V.M., et al., [1991,eng] 50-13
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Forecasting service life of frost-penetrated concrete. Fagerlund, G., [1996,eng] 50-4788
Formation and movement of avalanches. Moskalov, I.U.D., [1966,eng] 50-3833
Formation of taliks and high temperature frozen rocks under conditions of Central Yakutia. Shender, N.I., et al., [1996,eng] 50-6412
Glacier runoff in the Sarydzhar River basin. Kononov, V.G., et al., [1991,eng] 50-16
Heat balance integral method and freezing problems. Lunardini, V.J., [1996,eng] 50-6429
Heat flow in the cryolithozone in relation to subsurface heat flow. Deviatkin, V.N., et al., [1990,eng] 50-1626
Heat losses through outer protective enclosures with "Bridges of cold". Shapoval, A.F., et al., [1995,eng] 50-3086
Hindsight on river ice jam stability. Beltaos, S., [1996,eng] 50-6425
Ice content retrieval from clouds using Doppler radar. Sauva-geot, H., [1996,eng] 50-2772
Ice plate absorption of infrared radiation. Popov, A.A., et al., [1994,eng] 50-1284
Improved light scattering computations for hexagonal ice crystals. Xu, L., et al., [1996,eng] 50-3957
Improved segmentation of sea ice in radiometric imagery. Simpson, J.I., et al., [1995,eng] 50-3494
Improved use of passive microwave data for sea ice detection. Heygster, G.C., et al., [1992,eng] 50-225

- Inter-annual variation in the radiation and turbulent flow in the Barents, Norwegian and Greenland seas. Girdiuk, G.V., [1992,eng] 50-1270
Isotope techniques in permafrost investigations. Michel, F.A., [1989,eng] 50-2261
Kinetics of the freezing of water in dispersed soils (experiment, theory). Grechishchev, S.E., et al., [1996,eng] 50-6811
Linear least squares method for time series analysis. Khalil, M.A.K., et al., [1995,eng] 50-2388
Magnetic resonance imaging of gel phase transformations. Hong, J.S., et al., [1995,eng] 50-2739
Mathematical analysis of the flow of soils down a slope. Petrov, V.S., et al., [1993,eng] 50-119
Meaningful wind chill indicators derived from heat transfer principles. Brauner, N., et al., [1995,eng] 50-1552
Means of developing a frozen ground enclosure around a shaft to be sunk. Boguslavskii, E.I., et al., [1992,eng] 50-1901
Mechanism of breaking up a bench and optimizing the parameters of borehole-blasting excavation. Mikhailov, A.G., [1992,eng] 50-804
Method for calculating the anti-erosion stability of tundra soils on the Yamal Peninsula and its basis. Grigor'ev, V.I.A., et al., [1995,eng] 50-4102
Method of calculating the breakup of ice cover. Khvedynich, S.V., [1992,eng] 50-1265
Method of determining the surface boundary conditions for geocryological forecasting. Ershov, E.D., et al., [1996,eng] 50-6838
Method to calculate pack ice driving forces. Evgin, E., et al., [1995,eng] 50-1283
Methods for a structural processing of meteorological information. Dranitsa, I.U.P., [1992,eng] 50-1278
Methods for measuring discharge under ice cover—discussion. Engel, P., et al., [1996,eng] 50-2721
Microclimate of agricultural buildings—1. Bodrov, V.I., [1995,eng] 50-3442
Microwave permittivity of dry snow. Mätzler, C., [1996,eng] 50-3887
Microwave radiometry for monitoring the diverse cloudiness regimes on Earth: a review. Katsaros, K.B., [1992,eng] 50-227
Mode coupling in critical phenomena and supercooled liquids. Kawasaki, K., [1995,eng] 50-1219
Mode coupling theory of structural relaxations. Götz, W., et al., [1995,eng] 50-1220
Modeling of backscattering by non-spherical ice particles for the interpretation of cloud radar signals at 94 GHz. An error analysis. Okamoto, H., et al., [1995,eng] 50-3101
New concept of durability of highway construction. Smirnov, A.V., [1995,eng] 50-724
New formulation for the Bowen ratio over saturated surfaces. Andreas, E.L., et al., [1996,eng] 50-6570
Numerical analysis of vegetation cover structure and anthropogenic characteristics of deposits. Grisan, O.E., et al., [1990,eng] 50-1616
Oil recovery from Alaskan tar sands using electromagnetic heating. Islam, M.R., et al., [1991,eng] 50-1760
Oilwell casing downdrag from subsidence at Prudhoe Bay. Nair, K., et al., [1971,eng] 50-4196
On filtering consolidation of ground during pre-construction thawing. Barsegian, R.M., et al., [1996,eng] 50-6831
On forecasting extreme average daily air temperatures in the Kara Sea. Korzhikov, A.I.A., [1990,eng] 50-324
Optimal design of piping systems for district heating. Pheleace, G., [1995,eng] 50-1519
Optimal parameters of the technology for mining gypsum in the Olekminsk mine. Kokovin, V.A., et al., [1992,eng] 50-809
Parameters of the distribution of electromagnetic waves in frozen ground. Frolov, A.D., et al., [1995,eng] 50-2509
Phase equilibrium of soil water on the cryolithosphere. Kononov, A.A., [1996,eng] 50-6812
Pile bearing capacity in frozen soils. Mirenbur, I.U.S., [1996,eng] 50-6054
Possibility of forecasting monthly precipitation totals on the Kola Peninsula. Orlov, N.F., [1992,eng] 50-1277
Power law determination of ice crystal particle velocities. Mitchell, D.L., [1996,eng] 50-6558
Pressure and salinity effects on phase composition of water in frozen ground. Kondakov, V.V., et al., [1990,eng] 50-1612
Preventing the pollution of indigenous streams during open pit placer mining. Tsygankov, A.V., et al., [1990,eng] 50-1604
Processing satellite images to determine snow cover depth. Pichugina, E.L., [1991,eng] 50-3
Propagation of sound above a finite layer of snow. Nicolas, J., et al., [1985,eng] 50-3699
Quaternary Fourier stratigraphy: orbital templates and Milankovitch anomalies. Berger, W.H., [1994,eng] 50-1066
Radar and radiation properties of ice clouds. Atlas, D., et al., [1995,eng] 50-1246
Radiometry of cirrus cloud optical depths and ice crystal sizes. Ou, S.C., et al., [1995,eng] 50-3258
Radioonde examination of synoptical scale wind/cloud dynamics. Mace, G.G., et al., [1995,eng] 50-3256
Reexamination of the formation of exhaust condensation trails by jet aircraft. Hanson, H.M., et al., [1995,eng] 50-1248
Regional forecasting of cryogenic processes and ecology of the cryolithozone. Grechishchev, S.E., [1990,eng] 50-1598
Review of solution methods to the problem of heat-mass transfer during freezing and thawing. Komarov, I.A., [1996,eng] 50-6816

Analysis (mathematics)

Anchor ice

Antarctica—Amundsen-Scott Station

- Runoff of suspended sediments in the Dzhan-Kuati Glacier basin in summer 1970. Diurgenov, M.B., et al. [1972, rus] 50-554
- Salted drilling mud helps prevent casing collapse in permafrost. Kutsov, I.M., [1995, eng] 50-142
- Sensible heat flux measurements near a cold surface. Yen, Y.-C., [1995, eng] 50-879
- Significance of factors in a foundation-fill-heaving base. Babello, V.A., et al. [1993, rus] 50-131
- Sliding of glacial till over bedrock. Hindmarsh, R.C.A., [1996, eng] 50-6238
- Snow cover variations in a field catchment area. Shutoy, V.A., [1995, eng] 50-2729
- Some active and passive microwave signatures of antarctic sea ice from mid-winter to spring 1991. Gohin, F., [1995, eng] 50-161
- Some effects of conductor twisting on galloping. Richardson, A.S., Jr. [1980, eng] 50-3698
- Sounding to determine the thermophysical properties of frozen ground and bedrock. Gavrilov, R.I., [1993, rus] 50-124
- Spectral deviations of HF signals in antarctic radio lines. Khodzha-Akhmedov, Ch.L., et al. [1991, rus] 50-2271
- Straight line measurements of an open four-sided figure. Hofmann, W., [1958, ger] 50-4633
- Strength and yield criteria of frozen soil. Ma, W., et al. [1995, eng] 50-5478
- Study of dynamic effects on icebreaking in 2-dimension: experiment. Usami, A., et al. [1996, eng] 50-4468
- Study of the heat of crystallization of bound water in clay soils. Starostin, E.G., et al. [1996, rus] 50-6809
- Studying the thermo-stabilization of soil with a two-phase thermosiphon of small diameter. Pudov, A.S., et al. [1990, rus] 50-1620
- Supercooled liquids. Mohanty, U., [1995, eng] 50-1405
- Theory of inelastic x-ray scattering by phonons in ice. Johansson, P., [1996, eng] 50-6329
- Thermal calculations for pipe laying in frozen ground. Danielian, I.U.S., et al. [1990, rus] 50-1618
- Thermal recultivation of permafrost using a foam screen in the Arctic North. Feklistov, V.N., et al. [1990, rus] 50-1603
- Thermodynamic evaluation of the cold resistance of steel elements. Shafrai, S.D., et al. [1995, rus] 50-721
- Typification of USSR surface territory for the aerospace monitoring system. Apostolov, I.U.S., et al. [1992, rus] 50-3405
- Wind gusts in northern seas. Zykova, G.G., [1992, rus] 50-1271
- See [also]: Mathematical models; Statistical analysis; Stefan problem; Structural analysis; Thermal analysis
- Anchor ice**
- See [also]: Bottom ice
- Anchors**
- Anchoring of avalanche snow nets by exploded piles. Bouvet, P., et al. [1995, fre] 50-4679
- Artificial freezing suspended while Tower of Pisa foundation is anchored. Wheeler, P., [1995, eng] 50-885
- Construction activities inside of air structures protected from the arctic environment. Mangus, A.R., [1991, eng] 50-1730
- Design of ice booms. Foltyn, E.P., et al. [1996, eng] 50-6068
- Screw anchors economically control pipeline buoyancy in muskeg. Robertson, R., et al. [1995, eng] 50-4003
- Andes Mountains**
- Glaciological studies in the high central Andes using digital processing of satellite images. Llorens, R.E., et al. [1995, eng] 50-3339
- Anemometers**
- Anemometer for transmission line maintenance in heavy icing areas. Ozawa, A., et al. [1996, eng] 50-5395
- Calibration of anemometers for use in icing conditions. Makkonen, L., et al. [1996, eng] 50-5348
- Design of an anemometer for extreme conditions. Krynski, L., et al. [1996, eng] 50-4028
- Experiences of wind gauges used for measurements in cold regions. Tammelin, B., [1992, eng] 50-3637
- Focus 2000: wind, ice, and fog. Annual Mount Washington Observatory Symposium, 4th, North Conway, NH, June 23-24, 1995. [1996, eng] 50-4027
- Heated anemometer for atmospheric icing environments. Kenyon, P.R., et al. [1992, eng] 50-3638
- How to measure the wind accurately in icing conditions. Kenyon, P.R., et al. [1996, eng] 50-4030
- Measuring wind speed in freezing rain. Claffey, K.J., et al. [1996, eng] 50-4029
- Proceedings. International Experts' Meeting on Wind Power in Icing Conditions, Helsinki, Finland, 1992. Boreas-North Wind-Pohjatuuli. [1992, eng] 50-3626
- Sensible heat flux measurements near a cold surface. Yen, Y.-C., [1995, eng] 50-879
- Wind measurements at Ylläs broadcasting station 1982-1991. Lehtonen, P., [1992, eng] 50-3632
- Wind tunnel tests of ice-free anemometer. Morycka, J., et al. [1985, eng] 50-484
- Animals**
- Analyzing the state of Ural tributaries of the Ob' River according to zoobenthos indicators. Sharapova, T.A., et al. [1994, rus] 50-283
- Avalanche rescue dogs. Gouzon, J.P., [1995, fre] 50-2591
- Effects of mammals on ecosystem change at the Pleistocene-Holocene boundary. Zimov, S.A., et al. [1995, eng] 50-3895
- Integrated analysis of oil hydrocarbons in a marine environment and in the fat of animals. Kheshina, A.I.A., et al. [1991, rus] 50-1316
- Microorganisms sustaining large animals in seasonally ice-covered seas. Legendre, L., [1996, eng] 50-5907
- Plant-vertebrate herbivore interface in arctic ecosystems. Jefferies, R.L., et al. [1995, eng] 50-3905
- Preliminary habitat suitability index model for Himalayan musk deer. Rawat, G.S., [1994, eng] 50-5430
- Primer for the avalanche dog leader. [1964, eng] 50-5752
- Roles of ice nucleators in cold tolerant invertebrates. Duman, J.G., et al. [1995, eng] 50-3281
- Supercooling and ice nucleation in vertebrate ectotherms. Costanzo, J.P., et al. [1995, eng] 50-3282
- Anion exchange**
- See [also]: Ion exchange
- Anisotropy**
- Anisotropy coefficient of the electrical resistivity of frozen ground. Velikin, S.A., et al. [1995, rus] 50-2512
- Anisotropy in the adsorption of H₂O at low coordination sites on Pt(111). Morgenstern, M., et al. [1996, eng] 50-6199
- Crack nucleation in saline ice with interacting inhomogeneities. Wu, M.S., et al. [1995, eng] 50-1142
- Cryogenic fissures as a factor of soil anisotropy. Kulikov, A.I., [1996, eng] 50-5449
- Formation mechanism of side branches of dendritic ice crystals grown from vapor. Gonda, T., et al. [1996, eng] 50-5193
- Ice microcracking due to grain boundary sliding. Elvin, A.A., et al. [1996, eng] 50-4185
- Model of ductile behavior of columnar grained sea ice. Zhan, C., et al. [1996, eng] 50-5184
- Molecular dynamics study of surface melting on ice crystal. Nada, H., et al. [1994, eng] 50-3073
- Nucleation of microcracks in ice cubes compressed equally on all boundaries. Weiss, J., et al. [1996, eng] 50-5867
- On the scattering behaviour of bullet-rossette and bullet-shaped ice crystals. Strauss, B., [1996, eng] 50-6228
- Uniaxial constant compressive stress creep tests on sea ice. Sinha, N.K., et al. [1995, eng] 50-3000
- Antarctica**
- Antarctic ice sheet. Drewry, D.J., [1996, eng] 50-4976
- Antarctic macroalgae—sources of volatile halogenated organic compounds. Laturnus, F., et al. [1996, eng] 50-5594
- Antarctic sea ice analysis, 1991-1992. Naval Polar Oceanography Center. Naval Ice Center, [1992, eng] 50-444
- Antarctic Treaty's 30 years of operation. Machowski, J., [1989, pol] 50-2876
- Antarctica. Warren, S.G., [1996, eng] 50-4975
- Comparison of ice-sheet satellite altimeter retracking algorithms. Davis, C.H., [1996, eng] 50-2703
- Dust in Greenland and antarctic ice cores of the LGM. Yung, Y.L., et al. [1996, eng] 50-2727
- Dynamic isotope power system. Hunt, M.E., et al. [1992, eng] 50-396
- ECMWF analyses and predictions of the surface climate of Greenland and Antarctica. Genthon, C., et al. [1995, eng] 50-1327
- Estimating the mean annual primary production and outflow of organic carbon in Antarctica. Tseilun, V.B., [1995, rus] 50-6321
- Exploitation of mineral resources in Antarctica. Machowski, J., [1989, pol] 50-2932
- Explore Antarctica. Crossley, L., [1995, eng] 50-230
- First Poles in Antarctica—the beginnings of the history of our Antarctic studies. Zalewski, S.M., [1989, pol] 50-2872
- Geographic names of the Antarctic. Second edition 1995. Alberts, F.G., ed. [1995, eng] 50-4860
- Glacial geology: how ice shapes the land. Erickson, J., [1996, eng] 50-3555
- Guide to environmental impact assessment of activities in Antarctica. London. Foreign and Commonwealth Office. South Atlantic and Antarctic Department. Polar Regions Section, [1995, eng] 50-948
- Legal means for the protection of the antarctic environment from human activities. Machowski, J., [1993, eng] 50-2181
- Light dispersion and horizontal transparency in the surface boundary layer of the polar regions. Sakunov, G.G., et al. [1993, rus] 50-4507
- Measuring firm thickness and accumulation temperature. Craig, H., et al. [1996, eng] 50-3640
- New geography of the polar regions: synthesis and perspectives. Orombelli, G., ed. et al. Atti del Convegno della Società Geografica Italiana. Roma, 21-22 Novembre 1991 (Proceedings of the Italian Geographical Society Conference, Rome, 21-22 November 1991). [1994, ita] 50-2817
- Ozone hole. Hall, T.M., [1996, eng] 50-4995
- Polar regions: a political geography. Chaturvedi, S., [1996, eng] 50-5926
- Polythermal model of the antarctic ice sheet. Hansen, I., et al. [1996, eng] 50-6434
- Progress in glaciology and Quaternary glaciation research in China since 1978. Shi, Y.F., et al. [1995, eng] 50-4510
- Prospects for Polish studies in Antarctica. Birkenmajer, K., [1989, pol] 50-2877
- Using group explosions on the surface of antarctic glaciers during deep seismic sounding research. Shumilov, A.V., [1993, rus] 50-4508
- Verification and effectiveness of a method for long range meteorological forecasting in Antarctica. Rabstevich, S.V., [1990, rus] 50-330
- Workshop on Antarctic Air Transport Networks. Council of Managers of National Antarctic Programs, [1995, eng] 50-6270
- World of snow and ice. Kotliakov, V.M., [1994, rus] 50-1420
- XVI Polar Symposium: Achievements and Prospects of Polish Polar Research. Toruń, Sep. 19-20, 1989. Polar Symposium, 16th, Toruń, Poland. Sep. 19-20, 1989. [1989, pol] 50-2870
- Antarctica—Adlie Coast**
- First results of ¹⁵N/¹⁴N ratios in nitrate from alpine and polar ice cores. Freyer, H.D., et al. [1996, eng] 50-3724
- Origin of present-day antarctic precipitation from surface snow deuterium excess data. Ciais, P., et al. [1995, eng] 50-636
- Antarctica—Admiralty Bay**
- Chlorophyll *a*, suspended organic carbon and silicon in the sea ice of Admiralty Bay. Melnikov, I.A., [1993, rus] 50-920
- Antarctica—Alexander Island**
- Correction of satellite radar altimetry of antarctic ice sheets. Cooper, A.P.R., et al. [1996, eng] 50-5073
- Antarctica—Allan Hills**
- Isotope composition of the ice and subglacial geology near the Allan Hills. Faure, G., et al. [1993, eng] 50-6319
- Meteorites as time markers on antarctic blue ice fields. Benoit, P.H., [1995, eng] 50-1408
- Antarctica—Amundsen Sea**
- Antarctic ice sheet melting in the southeast Pacific. Jacobs, S.S., et al. [1996, eng] 50-5458
- Antarctic journal of the United States, vol.29, no.1. [1994, eng] 50-139
- C-band radar backscatter from antarctic first-year sea ice. 1. Jeffries, M.O., et al. [1995, eng] 50-6506
- C-band radar backscatter from antarctic first-year sea ice. 2. Morris, K., et al. [1995, eng] 50-6507
- Expedition ANTARKTIS-XI/3 of *Polarstern* in 1994. Miller, H., ed. et al. [1996, ger] 50-4325
- Glacial-ice fragments in antarctic sea ice. Haas, C., et al. [1995, eng] 50-464
- Ice-core analysis for sea-ice development in Ross, Amundsen and Bellingshausen seas, 1993 and 1994 winters. Jeffries, M.O., et al. [1995, eng] 50-6503
- Oceanographic expedition to the Amundsen and Bellingshausen Seas. Jacobs, S.S., et al. [1994, eng] 50-2225
- Sea ice and snow thickness in antarctic seas, winter 1993-94. Jeffries, M.O., et al. [1995, eng] 50-6504
- Sea ice extent and surface mass accumulation in Amundsen, Bellingshausen and Weddell seas. Giovinetto, M.B., et al. [1993, eng] 50-3553
- Sea-ice evolution in the Amundsen and Bellingshausen Seas. Jacobs, S.S., [1994, eng] 50-2226
- Snow cover on winter sea ice of Amundsen and Ross seas. Sturm, M., et al. [1995, eng] 50-6505
- Spatial and temporal variability in southern ocean sea ice coverage. Summerjohn, S.E., [1993, eng] 50-5520
- Winter investigations in the Ross, Amundsen and Bellingshausen seas, 1993-1995. Jafa Obregón, R., et al. [1995, spa] 50-2583
- Antarctica—Amundsen-Scott Station**
- 10-century comparison of prominent bipolar volcanic events in ice cores. Langway, C.C., Jr., et al. [1995, eng] 50-583
- 1994-1995 antarctic field season. Roberts, C.A., et al. [1995, eng] 50-2477
- AMANDA: Antarctic Muon And Neutrino Detector Array. Barwick, S.W., et al. [1994, eng] 50-4694
- Antarctic commute: CRREL searches for safe land route to South Pole. Chalmers, P., [1996, eng] 50-3239
- Antarctic muon and neutrino detector AMANDA: first data and outlook. Lynch, J., et al. [1995, eng] 50-6742
- Antarctic stratospheric spectroscopy using N₂O observations. Crewell, S., et al. [1995, eng] 50-1329
- Changes in ultraviolet radiation reaching the Earth's surface. Madronich, S., et al. [1995, eng] 50-4197
- Coincident events between SPASE and AMANDA detectors. Miller, T., et al. [1995, eng] 50-4305
- Diatoms in South Pole ice: implications for eolian contamination of Sirius Group deposits. Kellogg, D.E., et al. [1996, eng] 50-3387
- Downwelling radiation flux at continental surfaces. Garratt, J.R., et al. [1996, eng] 50-5018
- First data and future prospects for AMANDA, the antarctic muon and neutrino detector. AMANDA Collaboration, [1994, eng] 50-5215
- First results of ¹⁵N/¹⁴N ratios in nitrate from alpine and polar ice cores. Freyer, H.D., et al. [1996, eng] 50-3724
- Ground-penetrating radar investigation of the proposed dome-CARA tunnel route (South Pole Station). Arcone, S.A., et al. [1995, eng] 50-4543
- Matériel delivery to A-SSP Station. DenHartog, S.L., et al. [1995, eng] 50-1195
- Ocean load tides at the South Pole. Agnew, D.C., [1995, eng] 50-4199
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995, eng] 50-1866
- On the concentrations of O₂, N₂, and Ar in trapped gases from ice cores. Bender, M., et al. [1995, eng] 50-633
- Origin of present-day antarctic precipitation from surface snow deuterium excess data. Ciais, P., et al. [1995, eng] 50-636
- Ozone hole reemerges above the Antarctic. Monastersky, R., [1995, eng] 50-936
- Recovery of ozone in the lower stratosphere at the South Pole during the spring of 1994. Hofmann, D.J., et al. [1995, eng] 50-1182
- Sounding of polar stratospheric ozone annual variations. Grudev, A.N., et al. [1995, eng] 50-4748
- Source gases: concentrations, emissions, and trends. Fraser, P., et al. [1991, eng] 50-2782

Antarctica—Antarctic Peninsula

- Spectrometry of atmospheric emission over the South Pole. Van Allen, R., et al. [1996,eng] 50-4328
- Spectroscopy of antarctic stratospheric ozone variations. pt.2. Cheng, D.J., et al. [1996,eng] 50-4349
- Spectroscopy of stratospheric trace gases at the South Pole. De Zafra, R.L., et al. [1994,eng] 50-4240
- Ultraviolet radiation changes. McKenzie, R.L., et al. [1991,eng] 50-2788
- United States Antarctic Program. Roberts, C.A., et al. [1994,eng] 50-105
- Using solar energy at the South Pole: photovoltaic electricity and solar heating. Wills, R.H., [1988,eng] 50-3880
- Utilities and systems for the new Amundsen-Scott Station. Theno, S., et al. [1996,eng] 50-6142
- Antarctica—Antarctic Peninsula**
- Antarctic Peninsula ice shelves retreat. Vaughan, D.G., et al. [1996,eng] 50-3354
- Behavior of tropospheric and stratospheric ozone in The Arctic and Antarctica. Taalas, P., [1993,eng] 50-4769
- Behaviour of stratospheric and upper tropospheric ozone in high latitudes. Kyro, E., et al. [1994,eng] 50-3189
- Ice shelf breakup. Fahnestock, M., [1996,eng] 50-3490
- Palmer ecological research program. Smith, R.C., et al. [1995,eng] 50-5944
- Preliminary analysis of the cyclone activity over the Antarctic Peninsula in summer. Wang, D.C., et al. [1989,chi] 50-6769
- Problems in geodynamic studies of Antarctica. Guterch, A., [1989,pol] 50-2874
- Radiation risk. Buckley, R.G., et al. [1990,eng] 50-1204
- Recent climate variability in the vicinity of the Antarctic Peninsula. King, J.C., [1994,eng] 50-2994
- Sea-air exchange of sulfur, phosphorus, and nitrogen in marine aerosols over the Antarctic Peninsula waters. Chen, L.Q., et al. [1989,chi] 50-6775
- Sources and distribution of sulfate in the Pacific atmosphere. Chen, L.Q., et al. [1989,chi] 50-6786
- Study of snowflakes in antarctic clouds. Lachlan-Cope, T., [1996,eng] 50-4572
- Sulfide oxidation products in the antarctic atmosphere. Davison, B., et al. [1996,eng] 50-5615
- Ultraviolet radiation in the southern seas in early spring 1993. Wendler, G., et al. [1994,eng] 50-4241
- Weather forecasting for antarctic air and sea operations. Wattam, S., et al. [1995,eng] 50-5589
- Antarctica—Anvers Island**
- Study of brash ice in the proximal marine zone of a sub-polar tidewater glacier. Smith, N.D., et al. [1996,eng] 50-6224
- Antarctica—Arctowski Station**
- Atmospheric circulation in the region of Arctowski Station, 1986-1989. Kejna, M., [1993,eng] 50-2204
- Bioclimatic conditions in the region of Arctowski Station during the summer period. Styszyńska, A., [1989,pol] 50-2931
- Level of biomass and chlorophyll content of the plant communities, Arctowski Station. Barcikowski, A., et al. [1989,pol] 50-2923
- Twenty-four hour course of wind temperatures at Arctowski Station (King George Island, South Shetlands). Wójcik, G., et al. [1989,pol] 50-2904
- Wind velocities and frequency of its hourly values at Arctowski Station. Wójcik, G., et al. [1989,pol] 50-2903
- Antarctica—Arrival Heights**
- 1989 ozone hole. Nichol, S.E., et al. [1991,eng] 50-6421
- Ground-based aerosol measurements at Arrival Heights, Antarctica. Kreher, K., et al. [1996,eng] 50-6681
- Antarctica—Arthur Harbor**
- Antarctic phytoplankton and DNA library from communities exposed to ultraviolet-B. Jovine, R.V.M., et al. [1994,eng] 50-4246
- Melting rates of brash ice in Arthur Harbor. Smith, N.D., et al. [1994,eng] 50-2222
- Removal of hydrocarbons from the *Bahia Paraíso*. Arangio, I.A., [1994,eng] 50-4272
- Sedimentation at a tidewater glacier in Arthur Harbor. Ashley, G.M., et al. [1994,eng] 50-2223
- Antarctica—Asuka Station**
- Development of a wind turbine system for Antarctica. Kimura, S., [1992,eng] 50-3633
- Measuring snow particle size from video radar images. Hatanaka, M., et al. [1995,eng] 50-2579
- Antarctica—Beardmore Glacier**
- Beardmore Glacier glaciogenic succession, Transantarctic Mountains. Webb, P.N., et al. [1996,eng] 50-6630
- Antarctica—Bellingshausen Sea**
- ¹³C and ¹⁵N uptake by phytoplankton in the marginal ice zone of the Bellingshausen Sea. Bury, S.J., et al. [1995,eng] 50-1028
- Antarctic ice sheet melting in the southeast Pacific. Jacobs, S.S., et al. [1996,eng] 50-5458
- Antarctic journal of the United States, vol.29, no.1, [1994,eng] 50-139
- Biogenic hydrocarbons in particulate material of the Bellingshausen Sea marginal ice zone. Cripps, G.C., [1995,eng] 50-1025
- Biogeochemical study in the Bellingshausen Sea: overview of the STERNA 1992 expedition. Turner, D.R., et al. [1995,eng] 50-1021
- C-band radar backscatter from antarctic first-year sea ice. 1. Jeffries, M.O., et al. [1995,eng] 50-6506
- C-band radar backscatter from antarctic first-year sea ice. 2. Morris, K., et al. [1995,eng] 50-6507

- Chemistry of water and ice from Drake Passage and the Bellingshausen Sea. Turner, S.M., et al. [1995,eng] 50-1024
- Expedition ANTARKTIS-XI/3 of *Polarstern* in 1994. Miller, H., ed, et al. [1996,ger] 50-4325
- Glacial-ice fragments in antarctic sea ice. Haas, C., et al. [1995,eng] 50-464
- Ice-core analysis for sea-ice development in Ross, Amundsen and Bellingshausen seas, 1993 and 1994 winters. Jeffries, M.O., et al. [1995,eng] 50-6503
- Inorganic nutrients in the marginal ice zone of the Bellingshausen Sea in spring. Whitehouse, M.J., et al. [1995,eng] 50-1023
- Oceanographic expedition to the Amundsen and Bellingshausen Seas. Jacobs, S.S., et al. [1994,eng] 50-2225
- Phytoplankton response to fluctuating UVB. Karentz, D., et al. [1995,eng] 50-1323
- Radionuclide distribution in the marginal ice zone in the Bellingshausen Sea. Shimmield, G.B., et al. [1995,eng] 50-1029
- Sea ice and snow thickness in antarctic seas, winter 1993-94. Jeffries, M.O., et al. [1995,eng] 50-6504
- Sea ice extent and surface mass accumulation in Amundsen, Bellingshausen and Weddell seas. Giovinetto, M.B., et al. [1993,eng] 50-3553
- Sea-ice evolution in the Amundsen and Bellingshausen Seas. Jacobs, S.S., [1994,eng] 50-2226
- Snow and ice characteristics of the Bellingshausen Sea, during the spring melt. Aldworth, E., [1995,eng] 50-1022
- Spatial and temporal variability in southern ocean sea ice coverage. Stammerjohn, S.E., [1993,eng] 50-5520
- Suspended particulates and plankton during retreat of the marginal ice zone in the Bellingshausen Sea. Robins, D.B., et al. [1995,eng] 50-1026
- Ultraviolet radiation in the southern seas in early spring 1993. Wendler, G., et al. [1994,eng] 50-4241
- Water column and sea-ice primary production during Austral spring in the Bellingshausen Sea. Boyd, P.W., et al. [1995,eng] 50-1027
- Water masses and circulation around the South Shetland Islands in summer. Yang, T.Z., et al. [1989,chi] 50-6764
- Winter investigations in the Ross, Amundsen and Bellingshausen seas, 1993-1995. Jafa Obregón, R., et al. [1995,spa] 50-2583
- Antarctica—Bellingshausen Station**
- Highest usable frequencies on the Bellingshausen-Molodetz naya path in winter. Besprozvannaya, A.S., et al. [1991,rus] 50-2272
- Spectral deviations of HF signals in antarctic radio lines. Khodzha-Akhmedov, Ch.L., et al. [1991,rus] 50-2271
- Antarctica—Black Island**
- Antarctic alternative energy summary. Chiang, E., U.S. National Science Foundation. Office of Polar Programs, [1994,eng] 50-4278
- Antarctica—Bonney, Lake**
- Temperature evolution of a chemically stratified lake. Spiegel, R.H., et al. [1996,eng] 50-6333
- Antarctica—Botany Bay**
- Water in lichens at subzero temperatures. Schroeter, B., et al. [1995,eng] 50-2842
- Antarctica—Bransfield Strait**
- Behavior of mercury in seawater to the northwest of the Antarctic Peninsula. Ruan, Z., [1989,chi] 50-6774
- Chemical characteristics of water masses in the Bransfield Strait. Wang, Y.H., et al. [1989,chi] 50-6772
- Cyclopoids of the Bransfield Strait. Bielecka, L., [1993,eng] 50-2184
- Geomorphology of the shelf of the South Shetland Islands within the limits of Bransfield Strait. Marsz, A.A., [1989,pol] 50-2884
- Nutrient cycle in the Bransfield Strait. Wang, Y.H., et al. [1989,chi] 50-6773
- Problems in geodynamic studies of Antarctica. Guterch, A., [1989,pol] 50-2874
- Study of the surface circulation to the north of Bransfield Strait, Antarctica. de Souza, R.B., [1992,spa] 50-6663
- Water masses and circulation around the South Shetland Islands in summer. Yang, T.Z., et al. [1989,chi] 50-6764
- Antarctica—Bratina Island**
- Biogenic organic compounds in ponds on the McMurdo Ice Shelf. Schall, C., et al. [1996,eng] 50-3703
- Antarctica—Brimstone Peak**
- Geochemistry of volcanic ash in the ice near Brimstone Peak. Faure, G., et al. [1994,eng] 50-1885
- Antarctica—Brown Bluff**
- Products of subglacial volcanic eruptions under different ice thicknesses. Smellie, J.L., et al. [1994,eng] 50-2993
- Antarctica—Brunt Ice Shelf**
- Case study of turbulent parameters during the antarctic winter. Yagüe, C., et al. [1995,eng] 50-1339
- Antarctica—Bunger Hills**
- Atmospheric transparency and the stress of direct solar radiation in the Arctic and Antarctic. Wójcik, G., [1989,pol] 50-2902
- Bunger Hills—its genesis and some physiogeographical problems. Wiśniewski, E., [1989,pol] 50-2873
- Climatology and perennial lake ice at Bunger Hills. Doran, P.T., et al. [1996,eng] 50-6416
- Antarctica—Byrd Station**
- 10-century comparison of prominent bipolar volcanic events in ice cores. Langway, C.C., Jr., et al. [1995,eng] 50-583
- Design of underways facilities for Byrd Station. Mellor, M., et al. [1962,eng] 50-3805

- Earth's atmospheric record in ice cores. Boutroun, C.F., [1995,eng] 50-5069
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995,eng] 50-1866
- Relevance of glacial bed debris to glacial mechanics. Gow, A.J., et al. [1996,eng] 50-6251
- Antarctica—Canada Glacier**
- Glacier mass balances of Taylor Valley. Fountain, A.G., et al. [1994,eng] 50-3870
- Antarctica—Casey Station**
- Australian ice airstrip is a failure. Handmer, D., et al. [1990,eng] 50-3841
- Bacterial population in mineral soils from Antarctica and its relations to organic nutrients. Böller, M., [1989,pol] 50-2925
- Properties of antarctic maritime and coastal soils. Böller, M., et al. [1995,eng] 50-2567
- Reversible photoinhibition in antarctic moss during freezing and thawing. Lovelock, C.E., et al. [1995,eng] 50-2854
- Antarctica—Charlie, Dome**
- Automated DIMM telescope for Antarctica. Dopita, M.A., et al. [1996,eng] 50-5270
- Earth's atmospheric record in ice cores. Boutroun, C.F., [1995,eng] 50-5069
- First results of ¹⁵N/¹⁴N ratios in nitrate from alpine and polar ice cores. Freyer, H.D., et al. [1996,eng] 50-3724
- Antarctica—Comandante Ferraz Station**
- Brazilian network observations of the 1992 ozone hole. Kirchhoff, V.W.J.H., et al. [1993,eng] 50-562
- Antarctica—Commonwealth Glacier**
- Glacier mass balances of Taylor Valley. Fountain, A.G., et al. [1994,eng] 50-3870
- Antarctica—David Glacier**
- Dynamics of David Glacier and its floating Drygalski Ice Tongue. Frezzotti, M., [1994,ita] 50-2824
- Antarctica—Davis Bay**
- Inorganic carbon uptake by an antarctic sea-ice diatom, *Nitzschia frigida*. Mitchell, C., et al. [1996,eng] 50-3404
- Antarctica—Davis Station**
- Antarctic planktonic biomass seasonal variations. Skerratt, J.H., et al. [1995,eng] 50-1118
- Antarctica—Deception Island**
- Fluvial morphology and streamflow on Deception Island, Antarctica. Inbar, M., [1995,eng] 50-4190
- Seismo-acoustic studies in a flooded caldera on Deception Island. Kowalewski, W., et al. [1989,pol] 50-2878
- Antarctica—Discovery Bay**
- Geology of the eastern coast of Discovery Bay, Greenwich Island and the South Shetlands. Rudowski, S., [1989,pol] 50-2880
- Antarctica—Dominion Range**
- Late Holocene ice core history of the TAM. Mayewski, P.A., et al. [1995,eng] 50-1191
- Antarctica—Drake Passage**
- Problems in geodynamic studies of Antarctica. Guterch, A., [1989,pol] 50-2874
- Antarctica—Drygalski Ice Tongue**
- Dynamics of David Glacier and its floating Drygalski Ice Tongue. Frezzotti, M., [1994,ita] 50-2824
- Antarctica—Dumont d'Urville Station**
- High-speed network for communication by voice, data video and fax among three antarctic bases. Biasi, L., et al. [1994,eng] 50-4282
- Inter-annual variability in marine coastal antarctic bacterioplankton. Delille, D., et al. [1996,eng] 50-4006
- Producing energy for polar stations from the wind-water temperature gradient. LeGoff, H., et al. [1994,eng] 50-4275
- Unusual PSCs observed by lidar in Antarctica. Stefanutti, L., et al. [1995,eng] 50-753
- Antarctica—East Antarctica**
- Atmospheric surface pressure over the interior of Antarctica. Radok, U., et al. [1996,eng] 50-5678
- Climate of the penultimate ice age according to data from an antarctic ice core. Kotliakov, V.M., et al. [1993,rus] 50-4103
- Ice flow observations along traverse routes from the coast to Dome Fuji. Motoyama, H., et al. [1995,eng] 50-1692
- Interaction of katabatic winds and the formation of blue-ice areas in East Antarctica. Van den Broeke, M.R., et al. [1995,eng] 50-459
- Modeling and observational study of East Antarctic surface mass balance. Connolley, W.M., et al. [1996,eng] 50-3017
- Shallow ice coring and borehole casing at Dome Fuji Station, East Antarctica. Motoyama, H., et al. [1995,eng] 50-1694
- Snow accumulation rate from synthesis of microwave and altimeter data. Davis, C.H., [1995,eng] 50-162
- Southwest Pacific paleoceanography and development of the East Antarctic Ice Sheet. Flower, B.P., et al. [1995,eng] 50-2609
- Antarctica—East Ongul Island**
- Ground temperature and frost heave near Showa Station. Sawagaki, T., [1995,eng] 50-3696
- Antarctica—Ekström Ice Shelf**
- Neumayer weather data: 1992, 1993, 1994. König-Langlo, G., et al. [1996,eng] 50-4083
- Antarctica—Elephant Island**
- Ecosystem of the sea ice in Antarctica. Rakusa-Suszczewski, S., [1989,pol] 50-2875
- Occurrence of net phytoplankton between Elephant I. and the southern passages. Kocpzyńska, E.E., et al. [1989,pol] 50-2927

Antarctica—Ellis Fjord

- Phytoplankton biomass and taxonomy around Elephant I. Villafañe, V.E., et al. [1995,eng] 50-1826
 Recruitment and variability in antarctic krill. Siegel, V., et al. [1995,eng] 50-164
 Variability in nutrient concentrations around Elephant Island, Antarctica, during 1991-1993. Silva S., N., et al. [1995,eng] 50-941

Antarctica—Ellis Fjord

- Contribution of fast-ice algae to the spring phytoplankton bloom in Ellis Fjord. McMinn, A., [1996,eng] 50-5271

Antarctica—Explorers Cove

- Classification uncertainties within foraminifera species in McMurdo Sound, Antarctica. Bowser, S.S., et al. [1995,eng] 50-3345

Antarctica—Faraday Station

- Year-round column ozone observations at 65°S: validation and polar water data. Jones, A.E., et al. [1995,eng] 50-3524

Antarctica—Filchner Ice Shelf

- Drift of the tabular iceberg Filchner 1986A. Skvarca, P., et al. [1993,spa] 50-3552

- Submarine topographical chart around Filchner-Ronne Ice Shelf. Vaughan, D.G., et al. [1995,eng] 50-5443

Antarctica—Fildes Peninsula

- Human impact around polar stations on Fildes Peninsula. Krzysowska, A., [1993,eng] 50-2189

Antarctica—Fimbul Ice Shelf

- Turbulent transfer over an antarctic ice shelf. Vinje, T.E., [1969,eng] 50-3953

Antarctica—Flatvaer Islands

- Marine fossils and glacial history of raised beach deposits around Lützow-Holm Bay. Igarashi, A., et al. [1995,eng] 50-3695

Antarctica—Fletcher Ice Rise

- Topographic origin for double-ridge features in visible imagery of ice divides in Antarctica. Goodwin, A.H., et al. [1995,eng] 50-1870

Antarctica—Géologie Archipelago

- Inter-annual variability in marine coastal bacterioplankton. Delille, D., et al. [1996,eng] 50-4006

- Marine bacterioplankton and sea ice bacterial seasonal changes. Delille, D., et al. [1996,eng] 50-3869

- Plankton at the ice-water interface. Delille, D., et al. [1995,eng] 50-165

Antarctica—Georg Forster Station

- Chemical reactions in the polar stratosphere. Seisel, S., [1996,ger] 50-4734

- Volcanic perturbation of the atmosphere in both polar regions: 1991-1994. Herber, A., et al. [1996,eng] 50-3444

Antarctica—Georg von Neumayer Station

- Chemical reactions in the polar stratosphere. Seisel, S., [1996,ger] 50-4734

- Clean-up programme of stations of the Alfred Wegener Institute. Köhnen, H., [1994,eng] 50-4271

- Neumayer weather data: 1992, 1993, 1994. König-Langlo, G., et al. [1996,eng] 50-4083

- Sulfur hexafluoride—a powerful new atmospheric tracer. Maiss, M., et al. [1996,eng] 50-5608

- Volcanic perturbation of the atmosphere in both polar regions: 1991-1994. Herber, A., et al. [1996,eng] 50-3444

- Waste management concept at the German winter station Neumayer. El Naggar, S., et al. [1994,eng] 50-4269

Antarctica—Getz Ice Shelf

- Evolving front of the Ross Ice Shelf. Keys, H.J.R., et al. [1994,eng] 50-2693

Antarctica—Granite Harbor

- Water in lichens at subzero temperatures. Schroeter, B., et al. [1995,eng] 50-2842

Antarctica—Great Wall Station

- Major weather features at the Great Wall Station. Jiang, D.Z., et al. [1989,chi] 50-6768

- Radiation and ozone data at Zhongshan and Great Wall stations, 1993-1994. Bian, L.G., et al. [1995,eng] 50-5916

- Sedimentary model and dynamic process of the Great Wall Bay coast, Antarctica. Wang, X.L., [1989,chi] 50-6782

Antarctica—Greenwich Island

- Geology of the eastern coast of Discovery Bay, Greenwich Island and the South Shetlands. Rudowski, S., [1989,pol] 50-2880

Antarctica—Halley Station

- Development of a mobile garage/vehicle servicing facility. Halley scientific station. Smith, A.L., et al. [1994,eng] 50-4268

- Improved use of passive microwave data for sea ice detection. Heygster, G.C., et al. [1992,eng] 50-225

Antarctica—Heimefront Range

- Correction for *in-situ* ¹⁴C in antarctic ice with ¹⁴CO. Van Roijen, J., et al. [1995,eng] 50-5245

Antarctica—Hells Gate

- GPS geodetic activities in the 1994-95 antarctic campaign. Capra, A., et al. [1995,eng] 50-4393

- GPS recording of Hells Gate ice shelf tidal responses. Bondesan, A., et al. [1994,eng] 50-3765

- Strain net and ice flow monitoring of Hells Gate ice shelf. Bondesan, A., et al. [1995,eng] 50-4392

Antarctica—Hinode, Cape

- Ground temperature and frost heave near Showa Station. Sawagaki, T., [1995,eng] 50-3696

Antarctica—Howard Glacier

- Glacier mass balances of Taylor Valley. Fountain, A.G., et al. [1994,eng] 50-3870

Antarctica—Independence Hills

- Moraine observations at the foot of Independence Hills. Ishimaru, S., et al. [1995,eng] 50-4382

- Weathering processes in marbles from Independence and Patriot Hills. Yoshikawa, K., et al. [1995,eng] 50-4383

Antarctica—James Ross Island

- Geophysical studies of the Antarctic Peninsula. Fournier, H.G., [1994,eng] 50-1322

Antarctica—Jason Peninsula

- Rapid collapse of northern Larsen Ice Shelf, Antarctica. Rott, H., et al. [1996,eng] 50-2571

Antarctica—Juan Carlos I Station

- Alternative energy at the Juan Carlos I Station. Castellvi, J., et al. [1994,eng] 50-4277

Antarctica—King George Island

- Ecosystem of the sea ice in Antarctica. Rakusa-Suszczewski, S., [1989,pol] 50-2875

- Properties of antarctic maritime and coastal soils. Böller, M., et al. [1995,eng] 50-2567

- Research on Antarctic Shallow Coastal and Littoral Systems (RASCALS). Klöber, H., et al. [1995,ger] 50-2570

- Temperature distribution in Collins Ice Cap, King George I. Han, J.K., et al. [1995,eng] 50-3615

- Wind velocities and frequency of its hourly values at Arctowski Station. Wójcik, G., et al. [1989,pol] 50-2903

Antarctica—Korff Ice Rise

- Topographic origin for double-ridge features in visible imagery of ice divides in Antarctica. Goodwin, A.H., et al. [1995,eng] 50-1870

Antarctica—Krok Lake

- Plankton biomass variation in antarctic lakes. Bayliss, P.R., et al. [1995,eng] 50-1336

Antarctica—Lallemand Fjord

- Record of Holocene paleoclimate changes from glacial marine sediments in Lallemand Fjord. Shevenell, A.E., [1996,eng] 50-4074

Antarctica—Lambert Glacier

- Snow stratigraphy and accumulation rate in the Lambert Glacier basin. Ren, J.W., et al. [1995,chi] 50-5640

Antarctica—Larsemann Hills

- Rates of rock surface lowering, Princess Elizabeth Land, eastern Antarctica. Spate, A.P., et al. [1995,eng] 50-4149

- Research on the glaciation of the Larsemann Hills, East Antarctica. Li, S.K., [1995,chi] 50-3641

Antarctica—Larsen Ice Shelf

- Partial disintegration of antarctic ice. Simões, J.C., [1995,por] 50-3936

- Rapid collapse of northern Larsen Ice Shelf, Antarctica. Rott, H., et al. [1996,eng] 50-2571

- Recent retreat of ice shelves on the Antarctic Peninsula. Vaughn, D., et al. [1995,eng] 50-2155

Antarctica—Law Dome

- Atmospheric CO₂ variations inferred from antarctic ice composition. Etheridge, D.M., et al. [1996,eng] 50-3446

- Peroxide concentrations in the Dome Summit South ice core, Law Dome, Antarctica. van Ommen, T.D., et al. [1996,eng] 50-6327

- Summer temperatures from an ice core at Law Dome. Han, J.K., [1989,chi] 50-6771

Antarctica—Leningradskaya Station

- Diagnostics of the polar ionosphere using oblique and reverse-oblique sounding. Vovk, V.I.A., [1991,rus] 50-2264

- Evaluation of ionospheric inhomogeneities using reverse-oblique sounding. Vovk, V.I.A., [1991,rus] 50-2265

- Spectral deviations of HF signals in antarctic radio lines. Khodzha-Akhmedov, Ch.L., et al. [1991,rus] 50-2271

Antarctica—Lewis Cliff

- Ice thickness on Lewis Cliff Ice Tongue, 1993-1994. Echelmeyer, K., et al. [1994,eng] 50-1887

Antarctica—Livingston Island

- Geomorphological and neotectonic features of Hurd Peninsula, Livingston Island, South Shetland Islands. Pallás, R., et al. [1995,eng] 50-1337

- Lichens on Livingston and Robert Is. Valladares, F., et al. [1995,eng] 50-3779

Antarctica—Lützow-Holm Bay

- Application of synthetic aperture radar (SAR) imagery on antarctic glaciology. Takahashi, A., et al. [1995,jpn] 50-4553

- Marine fossils and glacial history of raised beach deposits around Lützow-Holm Bay. Igarashi, A., et al. [1995,eng] 50-3695

- Neoglobodrina pachyderma* distribution in the sea ice of Lützow-Holm Bay. Igarashi, A., et al. [1996,eng] 50-6036

Antarctica—Mackay Glacier

- Observations of the grounding-line area at a floating glacier terminus. Powell, R.D., et al. [1996,eng] 50-6264

- Submersible remote controlled vehicles for glacier-ocean-sediment study. Dowdeswell, J.A., et al. [1996,eng] 50-4902

Antarctica—Mackay Glacier Tongue

- Ground-line sedimentation at the Mackay Glacier Tongue. Dawber, M., et al. [1994,eng] 50-1897

Antarctica—Maitri Station

- Acoustic sounder measurements of the planetary boundary layer at Maitri, Antarctica. Naithani, J., et al. [1995,eng] 50-4208

Antarctica—Marambio Station

- Behaviour of stratospheric and upper tropospheric ozone in high latitudes. Kyro, E., et al. [1994,eng] 50-3189

- Ozone and NO₂ observations within the antarctic polar vortex. Gil, M., et al. [1990,spa] 50-5526

- Ozone observations on Antarctic Peninsula. Taalas, P., et al. [1993,spa] 50-3554

Antarctica—Marian Cove

- Foraminiferal bottom sediment assemblages from West Antarctica. Chang, S.K., et al. [1995,eng] 50-3346

Antarctica—Marie Byrd Land

- Atmospheric CO₂ in peat. White, J.W.C., et al. [1994,eng] 50-3770

Antarctica—Maudheim Station

- Ice shelf structure at Maudheim Station. Schytt, V., [1958,eng] 50-6420

- Movement of the ice shelf at Maudheim. Swithinbank, C., [1958,eng] 50-6525

- Snow studies at Maudheim. Schytt, V., [1958,eng] 50-6418

Antarctica—Mawson Station

- Marine snow in antarctic coastal waters. Marchant, H.J., et al. [1996,eng] 50-6034

- Source gases: concentrations, emissions, and trends. Fraser, P., et al. [1991,eng] 50-2782

Antarctica—McMurdo Dry Valleys

- Antarctic journal of the United States, vol.28, no.4.[1993,eng] 50-138

- Antarctic journal of the United States, vol.29, no.1.[1994,eng] 50-139

- Application of AMS ¹⁴C dating to ice core research. Wilson, A.T., [1995,eng] 50-5246

- Origin of salt in lakes and ponds of the McMurdo Dry Valleys. Takamatsu, N., et al. [1995,eng] 50-3697

Antarctica—McMurdo Ice Shelf

- Glaciology of the McMurdo Ice Shelf in the area of air operations. Klokov, V., et al. [1995,eng] 50-1194

- Planktonic communities of melt ponds on the McMurdo Ice Shelf, Antarctica. James, M.R., et al. [1995,eng] 50-1282

- Sulphur biogeochemistry in meltwater ponds on the McMurdo Ice Shelf. De Mora, S.J., et al. [1996,eng] 50-3577

- Summer plankton beneath the McMurdo Ice Shelf at White I. Knox, G.A., et al. [1996,eng] 50-3403

Antarctica—McMurdo Sound

- 1989 ozone hole. Nichol, S.E., et al. [1991,eng] 50-6421

- High resolution study of the platelet ice ecosystem in McMurdo Sound. Arrigo, K.R., et al. [1995,eng] 50-2522

- Microalgal light-harvesting in McMurdo Sound. Robinson, D.H., et al. [1995,eng] 50-106

- Microplankton bloom dynamics in McMurdo Sound, Antarctica. Stoecker, D.K., et al. [1993,eng] 50-3394

- Modeling the heating and melting of sea ice through light absorption by microalgae. Zeebe, R.E., et al. [1996,eng] 50-2844

- Possible influence of glacial eustasy on antarctic shelf stratigraphy. Bartek, L.R., et al. [1996,eng] 50-4823

- Preliminary results from fatigue tests on *in situ* sea ice beams. Haskell, T.G., et al. [1996,eng] 50-5469

Antarctica—McMurdo Station

- 1994-1995 antarctic field season. Roberts, C.A., et al. [1995,eng] 50-2477

- Biodiversity of gas vacuolate bacteria from antarctic sea ice and water. Gosink, J.J., et al. [1995,eng] 50-864

- Chlorine budget of the lower polar stratosphere. Shindell, D.T., et al. [1995,eng] 50-3091

- Compacted snow runway technology at McMurdo. Blaisdell, G.L., et al. [1995,eng] 50-1193

- Distributions of volcanic aerosols in antarctic polar stratospheric clouds. Adriani, A., et al. [1995,eng] 50-2848

- Evidence for midwinter chemical ozone destruction over Antarctica. Vömel, H., et al. [1995,eng] 50-754

- Ice wharves sampling and analysis plan for ocean dumping, McMurdo Station, Antarctica. Crockett, A.B., [1993,eng] 50-3929

- Lidar observations of stratospheric temperature above McMurdo Station, Antarctica. Di Donfrancesco, G., et al. [1996,eng] 50-5605

Mac Weather: improved meteorological support in Antarctica.

- Joseph, J.E., [1994,eng] 50-4285

- Movement of fuel spills in the Ross Ice Shelf. Tumeo, M.A., et al. [1994,eng] 50-5216

- Ozone abundance, cloud effects, and spectral irradiance. Stammes, K.H., et al. [1991,eng] 50-1417

- Ozone hole and the 1995 Nobel Prize in chemistry. Berger, A., [1996,fre] 50-5924

- Pegasus: a glacial-ice runway for wheeled flight operations at McMurdo Station. Blaisdell, G.L., et al. [1995,eng] 50-6501

- Polar stratospheric clouds observed by lidar at McMurdo Station during the 1993 winter. Adriani, A., et al. [1994,eng] 50-4239

- Potential for bioremediation of fuel-contaminated soil in Antarctica. Wardell, L.J., [1995,eng] 50-782

- Record low ozone at McMurdo Station in spring of 1993. Johnson, B.J., et al. [1994,eng] 50-4238

- Ultraviolet radiation changes. McKenzie, R.L., et al. [1991,eng] 50-2788

- United States Antarctic Program. Roberts, C.A., et al. [1994,eng] 50-105

Antarctica—Mirny Station

- Volcanic perturbation of the atmosphere in both polar regions: 1991-1994. Herber, A., et al. [1996,eng] 50-3444

Antarctica—Mimmo Plateau

- Chemical composition of snow between the Ronne Ice Shelf and the South Pole. Watanabe, O., et al. [1995,eng] 50-4388

Antarctica—Mimmo Station

- Glaciological data collected by JARE-35, 1994-1995. Shiraiwa, T., et al. [1996,eng] 50-5804

- High-resolution mass spectrometry for ice core trace element determination. Shimamura, T., et al. [1995,eng] 50-2576

Antarctica—Molodezhnaya Station

Antarctica—South Orkney Islands

- Ice flow observations along traverse routes from the coast to Dome Fuji. Motoyama, H., et al. [1995,eng] 50-1692
- Measuring snow particle size from video radar images. Hatanaka, M., et al. [1995,eng] 50-2579
- Proceedings of the NIPR Symposium on Polar Meteorology and Glaciology, No.9. Watanabe, O., ed. NIPR Symposium on Polar Meteorology and Glaciology, 17th, Tokyo, July 13-14, 1994. [1995,eng] 50-2574
- Antarctica—Molodezhnaya Station**
- Artificially compacted snow and temperature regime in a glacier active layer. Nazarov, V.D., [1992,rus] 50-149
- CAO data on the dependence of ozone density and relative mixture on angle of maximum solar elevation. Poliakova, E.A., et al. [1992,rus] 50-137
- Diagnostics of the polar ionosphere using oblique and reverse-oblique sounding. Vovk, V.I.A., [1991,rus] 50-2264
- Effects of temperature and density on snow cover stability of the Molodezhnaya runway. Nazarov, V.D., [1992,rus] 50-146
- Evaluation of ionospheric inhomogeneities using reverse-oblique sounding. Vovk, V.I.A., [1991,rus] 50-2265
- Highest usable frequencies on the Bellingshausen-Molodezhnaya path in winter. Besprozvannaya, A.S., et al. [1991,rus] 50-2272
- Mesospheric ozone investigations in south polar regions. Brezgin, N.I., et al. [1992,rus] 50-136
- Organization of regional forecasting services using oblique sounding of the ionosphere. Khodzha-Akhmedov, Ch.L., [1991,rus] 50-2262
- Spectral deviations of HF signals in antarctic radio lines. Khodzha-Akhmedov, Ch.L., et al. [1991,rus] 50-2271
- Spring and summer radiation regime in artificially compacted snow. Nazarov, V.D., [1992,rus] 50-148
- Temperature regime of artificially compacted snow of the Molodezhnaya runway. Nazarov, V.D., [1992,rus] 50-147
- Total ozone concentrations during the antarctic spring anomaly of 1989. Brezgin, N.I., et al. [1992,rus] 50-135
- Antarctica—Nansen Ice Sheet**
- Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces. Zibordi, G., et al. [1996,eng] 50-5467
- Antarctica—Nelson Island**
- Glaciological studies on Nelson Island, South Shetland Islands. Antarctica. Ren, J.W., et al. [1995,eng] 50-460
- Antarctica—Newall Glacier**
- Late Holocene ice core history of the TAM. Mayewski, P.A., et al. [1995,eng] 50-1191
- Antarctica—Nishino-ura Cove**
- Tidal displacement of sea ice at Nishino-ura Cove. Sato, T., et al. [1995,eng] 50-3694
- Antarctica—Norsel Iceport**
- Movement of the ice shelf at Maudheim. Swithinbank, C., [1958,eng] 50-6525
- Antarctica—Northern Foothills**
- Electric soundings on polar landforms of the Northern Foothills. Guglielmin, M., et al. [1995,eng] 50-4391
- Antarctica—Palmer Station**
- Antarctic cloud scattering depth using ground-based radiometry. Ricchiuzzi, P., et al. [1995,eng] 50-1335
- Biodiversity of gas vacuolate bacteria from antarctic sea ice and water. Gosink, J.J., et al. [1995,eng] 50-864
- Bursts of cloud condensation nuclei (CCN) by dissipating clouds at Palmer Station, Antarctica. Saxena, V.K., [1996,eng] 50-3602
- Changes in ultraviolet radiation reaching the Earth's surface. Madronich, S., et al. [1995,eng] 50-4197
- Palmer ecological research program. Smith, R.C., et al. [1995,eng] 50-5944
- Palmer Station docking facility. Conceptual engineering study. ITT Antarctic Services, Inc., [1986,eng] 50-3928
- Radiation risk. Buckley, R.G., et al. [1990,eng] 50-1204
- Ultraviolet inhibition of carbon fixation in phytoplankton. Boucher, N., et al. [1994,eng] 50-4245
- Ultraviolet radiation changes. McKenzie, R.L., et al. [1991,eng] 50-2788
- Ultraviolet radiation effects on phytoplankton during ozone depletion. Villafate, V.E., et al. [1994,eng] 50-4243
- Ultraviolet-B radiation and photosystem II activity in antarctic ice algae. Schofield, O., et al. [1995,eng] 50-2573
- United States Antarctic Program. Roberts, C.A., et al. [1994,eng] 50-105
- Antarctica—Patriot Hills**
- Albedo on snow surface in Patriot Hills, Antarctica. Shinohara, M., et al. [1995,eng] 50-4384
- Chemical composition of snow between the Ronne Ice Shelf and the South Pole. Watanabe, O., et al. [1995,eng] 50-4388
- Ice sheet surface features between 80 and 90S, along 90W. Yoshikawa, K., [1995,eng] 50-4386
- INACH expedition to Patriot Hills, Nov.-Dec. 1995. Casassa, G., [1996,spa] 50-5802
- Ionic constituents of surface snow samples, 1992-1993. Osada, K., et al. [1995,eng] 50-4389
- Observation of snow crystals in Antarctica and Greenland. Harada, K., [1995,eng] 50-4385
- Snow hardness variations in Patriot Hills. Harada, K., et al. [1995,eng] 50-4387
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- Antarctica—Pine Island Bay**
- High basal melt rates in Pine Island Glacier. Jenkins, A., et al. [1994,eng] 50-2227
- Antarctica—Pine Island Glacier**
- High basal melt rates in Pine Island Glacier. Jenkins, A., et al. [1994,eng] 50-2227
- Antarctica—Prydz Bay**
- Marine snow in antarctic coastal waters. Marchant, H.J., et al. [1996,eng] 50-6034
- Research on the glaciation of the Larsemann Hills, East Antarctica. Li, S.K., [1995,chi] 50-3641
- Antarctica—Queen Fabiola Mountains**
- Aircraft operation for earth science study in the Yamato Mountains by JARE 35. Funaki, M., [1995,jpn] 50-3496
- Antarctica—Queen Maud Land**
- Century of accumulation and temperature changes in Dronning Maud Land, Antarctica. Isaksson, E., et al. [1996,eng] 50-4352
- Development of the JARE deep ice coring system (II). Narita, H., et al. [1995,jpn] 50-1693
- Distribution of hydrogen peroxide in surface snow over antarctic ice sheet. Kamiyama, K., et al. [1996,eng] 50-3452
- Ice accumulation, western Queen Maud Land. Swithinbank, C., [1959,eng] 50-6203
- Ice shelf structure at Maudheim Station. Schytt, V., [1958,eng] 50-6420
- Inland ice and nunataks, Queen Maud Land. Swithinbank, C., [1959,eng] 50-6202
- Katabatic winds over an East Antarctic cirque. Jonsson, S., [1995,eng] 50-1338
- Snow studies at Maudheim. Schytt, V., [1958,eng] 50-6418
- Snow studies inland. Schytt, V., [1958,eng] 50-6419
- Surface ice flow and anisotropic internal radar echoes in Queen Maud Land ice sheet. Maeno, H., et al. [1995,eng] 50-2577
- Antarctica—Robert Island**
- Lichens on Livingston and Robert Is. Valladares, F., et al. [1995,eng] 50-3779
- Antarctica—Robertson Island**
- Geophysical studies of the Antarctic Peninsula. Fournier, H.G., [1994,eng] 50-1322
- Rapid collapse of northern Larsen Ice Shelf, Antarctica. Rott, H., et al. [1996,eng] 50-2571
- Antarctica—Ronne Ice Shelf**
- Submarine topographical chart around Filchner-Ronne Ice Shelf. Vaughan, D.G., et al. [1995,eng] 50-5443
- Temperature variability beneath Ronne Ice Shelf, Antarctica, from thermistor cables. Nicholls, K.W., [1996,eng] 50-2846
- Antarctica—Ross Ice Shelf**
- Alone: the classic polar adventure. Byrd, R.E., [1995,eng] 50-2851
- Basal friction of Ice Stream E, West Antarctica. MacAyeal, D.R., et al. [1995,eng] 50-448
- Compacted snow runway technology at McMurdo. Blaisdell, G.L., et al. [1995,eng] 50-1193
- Evolving front of the Ross Ice Shelf. Keys, H.J.R., et al. [1994,eng] 50-2693
- Ice: the antarctic diary of Charles F. Passel. Passel, C.F., [1995,eng] 50-3927
- Movement of fuel spills in the Ross Ice Shelf. Tumeo, M.A., et al. [1994,eng] 50-5216
- Snow accumulation and transport dynamics on the Ross Ice Shelf. Braaten, D.A., [1994,eng] 50-2219
- Antarctica—Ross Sea**
- Chronology of late Wisconsin ice retreat from the western Ross Sea, Antarctica. Licht, K.J., et al. [1996,eng] 50-3814
- Effect of sea ice on the salinity of antarctic bottom waters. Toggweiler, J.R., et al. [1995,eng] 50-336
- Evidence for a fluidized till deposit on the Ross Sea continental shelf. Jahns, E., [1994,eng] 50-2695
- Ice-core analysis for sea-ice development in Ross, Amundsen and Bellingshausen seas, 1993 and 1994 winters. Jeffries, M.O., et al. [1995,eng] 50-6503
- Interaction between arctic and antarctic sea ice. Xie, S.M., et al. [1995,eng] 50-3417
- Intercomparisons of sea ice concentration from SSM/I and AVHRR data of the Ross Sea. Zibordi, G., et al. [1995,eng] 50-938
- Long-term ice-sheet stability study in Ross Sea cores. Licht, K., et al. [1994,eng] 50-1893
- Radiocarbon date list VIII: Canada, Greenland, Iceland, and Antarctica. Manley, W.F., ed. et al. [1996,eng] 50-5927
- Sea ice and snow thickness in antarctic seas, winter 1993-94. Jeffries, M.O., et al. [1995,eng] 50-6504
- Sea-ice velocity fields estimation on Ross Sea with NOAA-AVHRR. Motezuma Flores, M., et al. [1995,eng] 50-983
- Sedimentological data on cores from the Joides Basin. Corradi, N., et al. [1995,eng] 50-4394
- Seismic survey of the Ross Sea continental shelf. Shipp, S.S., et al. [1994,eng] 50-2694
- Snow cover on winter sea ice of Amundsen and Ross seas. Sturm, M., et al. [1995,eng] 50-6505
- Spatial and temporal variability in southern ocean sea ice coverage. Stammerjohn, S.E., [1993,eng] 50-5520
- Temporal changes in shelf water of the southern Ross Sea. Hellmer, H.H., et al. [1994,eng] 50-2692
- Winter investigations in the Ross, Amundsen and Bellingshausen seas, 1993-1995. Jaña Obregón, R., et al. [1995,spa] 50-2583
- Antarctica—Rothera Station**
- Weather forecasting for antarctic air and sea operations. Wattam, S., et al. [1995,eng] 50-5589
- Antarctica—Schirmacher Ponds**
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- Secondary precipitates in Pleistocene and present cryogenic environments. Vogt, T., et al. [1996,eng] 50-4045
- Antarctica—Shackleton Range**
- Glacial geology and petrography of erratics in Shackleton Range, Antarctica. Höfle, H.C., et al. [1995,eng] 50-1525
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- Numerical simulation of Shirase Glacier. Pattyn, F., et al. [1995,eng] 50-2578
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- Aircraft operation for earth science study in the Yamato Mountains by JARE 35. Funaki, M., [1995,jpn] 50-3496
- Antarctic atmospheric moisture values obtained from microwave radiometers. Wada, M., et al. [1992,eng] 50-3568
- Atmospheric CO₂ over Showa Station. Murayama, S., et al. [1995,eng] 50-974
- Autumnal sea ice biota in polar seas. Hoshiai, T., et al. [1996,eng] 50-6031
- Doppler spectroscopy of antarctic wind velocities. Nakajima, H., et al. [1995,eng] 50-3811
- Ice flow observations along traverse routes from the coast to Dome Fuji. Motoyama, H., et al. [1995,eng] 50-1692
- Japanese antarctic activities for 1995-1996. Tokyo. National Institute of Polar Research, [1996,eng] 50-2608
- Life cycle of *Paralabidocera antarctica* at Showa Station. Tanimura, A., et al. [1996,eng] 50-6414
- Measuring snow particle size from video radar images. Hatanaka, M., et al. [1995,eng] 50-2579
- Meteorological observations at Showa Station by JARE-33 in 1992. Matsuhara, K., et al. [1995,jpn] 50-4554
- Ozone and temperature trends. Stolarski, R., et al. [1991,eng] 50-2783
- Proceedings of the NIPR Symposium on Polar Meteorology and Glaciology, No.9. Watanabe, O., ed. NIPR Symposium on Polar Meteorology and Glaciology, 17th, Tokyo, July 13-14, 1994. [1995,eng] 50-2574
- Relocation of telecommunication facilities at Syowa Station. Takada, K., [1995,jpn] 50-3499
- Remote-sensing data used in a polar atmosphere and cryosphere study. Hirasawa, N., et al. [1995,jpn] 50-1695
- Sea ice detection at Showa Station from MOS-1 mosaics. Ishida, K., et al. [1996,jpn] 50-5892
- Sounding of polar stratospheric ozone annual variations. Gruzdev, A.N., et al. [1995,eng] 50-4748
- Source gases: concentrations, emissions, and trends. Fraser, P., et al. [1991,eng] 50-2782
- Summer phytoplankton bloom under fast ice around Showa Station. Odate, T., et al. [1996,eng] 50-6037
- Surface radiation budget. Svalbard and Antarctica, 1987. Yamanouchi, T., et al. [1995,eng] 50-2580
- Total ozone trends in the Southern Hemisphere: an update. Kane, R.P., [1993,eng] 50-563
- Antarctica—Signy Island**
- Environmental evaluation of the rebuilding of Signy Station. British Antarctic Survey, [1990,eng] 50-1546
- Ice nucleation activity in antarctic plants. Worland, M.R., et al. [1996,eng] 50-6221
- Penguin population dynamics in relation to sea ice distribution. Trathan, P.N., et al. [1996,eng] 50-5735
- Sea ice variation at the South Orkney Is. Murphy, E.J., et al. [1995,eng] 50-972
- Antarctica—Siple Coast**
- Geophysical experiments on Ridge B1/B2, Siple Coast. Bentley, C.R., et al. [1994,eng] 50-1888
- Ice velocities near a relic flow feature on Siple Dome. Jacobel, R.W., et al. [1994,eng] 50-1891
- Internal layer folding patterns from radar studies of ice streams B and C. Jacobel, R.W., et al. [1994,eng] 50-1892
- Observational study of the katabatic wind confluence zone near Siple Coast, West Antarctica. Bromwich, D.H., et al. [1996,eng] 50-4157
- Progress in ice-stream basal modeling. Alley, R.B., [1994,eng] 50-1890
- Shear margins in glaciers and ice sheets. Raymond, C., [1996,eng] 50-4894
- Temperature measurements in the margin of ice stream B, 1993-1994. Harrison, W., et al. [1994,eng] 50-1889
- Antarctica—Siple Dome**
- Changes in the configuration of ice stream flow from the West Antarctic ice sheet. Jacobel, R.W., et al. [1996,eng] 50-4360
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- Internal and basal ice changes near the grounding line derived from radio-echo sounding. Uratsuka, S., et al. [1996,eng] 50-4895
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- Antarctica—South Orkney Islands**
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- Ecosystem of the sea ice in Antarctica. Rakusa-Suszczewski, S., [1989,pol] 50-2875

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- Clastic sediment features in the sea area adjacent to the South Shetland Islands. Feng, Y.J., et al. [1989,chi] 50-6783
- Geology of the eastern coast of Discovery Bay, Greenwich Island and the South Shetlands. Rudowski, S., [1989,pol] 50-2880
- Geomorphology of the shelf of the South Shetland Islands within the limits of Bransfield Strait. Marsz, A.A., [1989,pol] 50-2884
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- Krill and sea ice cover. Kawaguchi, S., et al. [1994,eng] 50-859
- Lichens on Livingston and Robert Is. Valladares, F., et al. [1995,eng] 50-3779
- Marine clay deposits in ice water around the South Shetlands. Zhou, F.G., et al. [1989,chi] 50-6781
- Marine glacial deposition around the South Shetland Islands. Huang, H.Y., et al. [1989,chi] 50-6784
- Mean annual air temperature trends since 1904 in the South Shetland Islands. Han, J.K., et al. [1995,chi] 50-5639
- Paleoclimate from diatom distribution in a marine core. Zhan, Y.F., [1989,chi] 50-6780
- Problems in geodynamic studies of Antarctica. Guterch, A., [1989,pol] 50-2874
- Radiolaria biostratigraphy of core S₁₁ in the area northwest of Antarctic Peninsula. Chen, W.B., [1989,chi] 50-6779
- Sediment types and sedimentation of the northwestern sea area of the Antarctic Peninsula. Lin, C.Q., et al. [1989,chi] 50-6785
- Twenty-four hour course of wind temperatures at Arctowski Station (King George Island, South Shetlands). Wójcik, G., et al. [1989,pol] 50-2904
- Water masses and circulation around the South Shetland Islands in summer. Yang, T.Z., et al. [1989,chi] 50-6764
- Wind velocities and frequency of its hourly values at Arctowski Station. Wójcik, G., et al. [1989,pol] 50-2903
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- Problems in geodynamic studies of Antarctica. Guterch, A., [1989,pol] 50-2874
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- Climate change during the last deglaciation in Antarctica. Mayewski, P.A., et al. [1996,eng] 50-5067
- Climatic implications of solar modulation of cosmogenic isotopes in antarctic ice cores. Steig, E.J., et al. [1996,eng] 50-3549
- Glacier geophysics at Taylor Dome: year 4. Waddington, E.D., et al. [1994,eng] 50-1899
- Straigraphy and physics of the Taylor Dome ice core. Fitzpatrick, J.J., [1994,eng] 50-1900
- Taylor Ice Dome study 1993-1994: an ice core to bedrock. Grootes, P.M., et al. [1994,eng] 50-1898
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- Buoy installation and operation in Terra Nova Bay. Cucinotta, A., et al. [1994,eng] 50-4284
- Moraines and buried ice in Terra Nova Bay area. Meneghel, M., et al. [1994,ita] 50-2825
- New radiochemical procedures for environmental actinide measurements and data quality control. Testa, C., et al. [1995,eng] 50-2344
- Particulate organic matter in Terra Nova Bay in summer 1990. Fabiano, M., et al. [1996,eng] 50-3702
- Prototype of a moored meteorological/oceanographic buoy for Terra Nova Bay. Gasparoni, F., et al. [1994,eng] 50-5183
- Antarctica—Terra Nova Bay Station**
- Automatic integrated module installed at Terra Nova Bay. Lori, A., [1994,eng] 50-4281
- High-speed network for communication by voice, data video and fax among three antarctic bases. Blasi, L., et al. [1994,eng] 50-4282
- National Antarctic Research Program. Cervellati, R., [1994,ita] 50-2823
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- Pleistocene glacier thicknesses inferred from electron microscopy of till microtextures. Mahaney, W.C., [1995,eng] 50-3365
- Antarctica—Vestfold Hills**
- Copepod adaptability to temperature and salinity in a salt lake. Wang, Z.P., et al. [1989,chi] 50-6777
- Effect of salinity on oxygen metabolism of copepods in a salt lake. Wang, Z.P., [1989,chi] 50-6778
- Rates of rock surface lowering, Princess Elizabeth Land, eastern Antarctica. Spate, A.P., et al. [1995,eng] 50-4149
- Antarctica—Vesttraumen Glacier**
- Microwave emission from density-stratified antarctic firn at 6 cm wavelength. West, R.D., et al. [1996,eng] 50-4892

- Passive microwave remote sensing of snow: volume scattering in antarctic firn. Tsang, L., et al. [1995,eng] 50-4181
- Antarctica—Victoria Land**
- Block moraine formation of antarctic glaciers. Fitzsimons, S.J., [1996,eng] 50-6242
- Climate change during the last deglaciation in Antarctica. Mayewski, P.A., et al. [1996,eng] 50-5067
- Growth temperature preferences of fungal strains from Victoria Land, Antarctica. Zucconi, L., et al. [1996,eng] 50-4009
- Landform and sediment associations of dry-based glaciers in arid polar environments. Humphreys, K.A., et al. [1996,eng] 50-6577
- Landscape evolution in Antarctica. Campbell, I.B., et al. [1988,eng] 50-6526
- Paleoclimatic reconstructions from antarctic volcanic ash deposits. Marchant, D.R., et al. [1996,eng] 50-4233
- Pliocene paleoclimate of Dry Valleys of Southern Victoria Land. Marchant, D.R., et al. [1996,eng] 50-6629
- Swedish Antarctic Research Programme, 1989/90: a cruise report. Reuterskiöld, M., [1992,eng] 50-1418
- Antarctica—Vostok Station**
- 135,000-year Vostok SPECMAP common temporal framework. Sowers, T., et al. [1993,eng] 50-2867
- Aging effects on translational lattice vibrations in ice I_h. Fukuzawa, H., et al. [1996,eng] 50-6615
- Application of AMS ¹⁴C dating to ice core research. Wilson, A.T., [1995,eng] 50-5246
- Atmospheric chemistry changes versus past climate inferred from polar ice cores. Legrand, M., [1995,eng] 50-1643
- Atmospheric CO₂ and isotopic carbon-13 dioxide in ice-core air bubble. Wahlen, M., [1994,eng] 50-1894
- Climate of the penultimate ice age according to data from an antarctic ice core. Kotliakov, V.M., et al. [1993,rus] 50-4103
- Diagnostics of the polar ionosphere using oblique and reverse-oblique sounding. Vovk, V.I.A., [1991,rus] 50-2264
- Earth's atmospheric record in ice cores. Boutou, C.F., [1995,eng] 50-5069
- Evaluation of ionospheric inhomogeneities using reverse-oblique sounding. Vovk, V.I.A., [1991,rus] 50-2265
- Freshwater sub-ice antarctic lake. Kapitsa, A.P., et al. [1996,eng] 50-5213
- Great lake under the ice. Ellis-Evans, J.C., et al. [1996,eng] 50-5601
- Hemispheric climate relations revealed by bottom sediment/ice core correlations. Charles, C.D., et al. [1996,eng] 50-6632
- Isotope analysis of Greenland ice sheet stratigraphic disturbances. Fuchs, A., et al. [1996,eng] 50-5461
- Lake Vostok beneath the antarctic ice sheet—a Russian research proposal. Kamimura, K., [1995,jpn] 50-3498
- Lead isotope ratios in Greenland and antarctic snow and ice. Chisholm, W., et al. [1995,eng] 50-1256
- Linear least squares method for time series analysis. Khalil, M.A.K., et al. [1995,eng] 50-2388
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995,eng] 50-1866
- On the concentrations of O₂, N₂, and Ar in trapped gases from ice cores. Bender, M., et al. [1995,eng] 50-633
- Organic carbon paleo-pCO₂ and marine-ice core correlations and chronology. Raymo, M.E., et al. [1996,eng] 50-3601
- Polar news/Notizie polari, Vol.11, No.3. Centro Ricerca e Documentazione Polare, Rome, [1996,ita] 50-4768
- Predicting the Vostok CO₂ curve. Saltzman, B., et al. [1995,eng] 50-821
- Rapid oscillations in Vostok and GRIP ice cores. Yiou, P., et al. [1995,eng] 50-772
- Recent progress in Vostok ice core analysis studies on ancient air stored in ice cores. Uchida, T., [1995,jpn] 50-992
- Recent progress in Vostok ice core analysis: paleoclimate and paleoenvironment. Osada, K., [1995,jpn] 50-1000
- Russian alternative energy sources in the Antarctic. Sheinshstein, A.S., [1994,eng] 50-4276
- Science news from The Ice: highlights from the 1994-1995 austral summer. Simarski, L., [1995,eng] 50-6500
- Spectral deviations of HF signals in antarctic radio lines. Khodzha-Akhmedov, Ch.L., et al. [1991,rus] 50-2271
- Vostok ice core deuterium variations over the last two glacial cycles. Waelbroeck, C., et al. [1995,eng] 50-4089
- Water kept liquid by warmth from within. Bentley, C.R., [1996,eng] 50-5602
- Antarctica—Wasa Station**
- Swedish Antarctic Research Programme, 1989/90: a cruise report. Reuterskiöld, M., [1992,eng] 50-1418
- Swedish building research in Antarctica. Swedish Council for Building Research, [1992,eng] 50-1419
- Antarctica—Weddell Sea**
- Antarctic bottom water formation and the global cadmium to phosphorus relationship. Frew, R.D., [1995,eng] 50-752
- Antarctic journal of the United States, vol.29, no.1. [1994,eng] 50-139
- Antifreeze glycopeptides and peptides in fish from the Weddell and Lazarev seas. Wöhrmann, A.P.A., [1996,eng] 50-3959
- Atmosphere-surface interactions over polar oceans and heterogeneous surfaces. Vihma, T., [1995,eng] 50-4035
- C-band backscatter measurements of winter sea-ice in the Weddell Sea, Antarctica. Drinkwater, M.R., et al. [1995,eng] 50-1817
- Circulation and transport of water along the western Weddell Sea margin. Muench, R.D., et al. [1995,eng] 50-568
- Daily vertical migration of antarctic copepods beneath the ice. Tseitlin, V.B., et al. [1995,eng] 50-3607

Antarctica—Weddell Sea

- Disturbances in the thermohaline structure of the near-surface ocean layer in the wake of an iceber. Abaza, V.P., et al. [1995,rus] 50-4202
- Drifted snow affects momentum exchange over sea ice. Andreas, E.L., et al. [1994,eng] 50-2220
- Effect of sea ice on the salinity of antarctic bottom waters. Toggweiler, J.R., et al. [1995,eng] 50-336
- Effects of pack ice on Weddell Sea plankton distribution. Kaufmann, R.S., et al. [1995,eng] 50-4160
- Fall phytoplankton biomass, P-I relationships and primary production in the Weddell Sea. Dower, K.M., et al. [1996,eng] 50-4008
- Field observations of microwave backscatter from Weddell Sea ice. Lytle, V.I., et al. [1996,eng] 50-3148
- Filchner's expedition to the Weddell Sea. Filchner, W., [1994,eng] 50-397
- Formation and discharge of deep and bottom water in the northwestern Weddell Sea. Fahrbach, E., et al. [1995,eng] 50-670
- Freezing driven upwelling in antarctic sea ice biological systems. Ackley, S.F., et al. [1996,eng] 50-6032
- GCM response to an antarctic polynya. Glowienka-Hense, R., [1995,eng] 50-3100
- Heat flux through Weddell Sea ice cover. Lytle, V.I., et al. [1996,eng] 50-5263
- High resolution observations of Weddell Sea surface currents using ERS-1 SAR sea-ice motion vectors. Thomas, J.P., et al. [1995,eng] 50-1819
- Hydrocarbons in antarctic ice algae. Fogelqvist, E., et al. International Conference on Natural-Produced Halogens, Delft, The Netherlands, 1995. Edited by A. Grimwall and E.W.B. de Leer, [1995,eng] 50-4824
- Ice impact tests on *Nathaniel B. Palmer*. St. John, J.W., et al. [1995,eng] 50-860
- Ice-edge hydrography between Elephant I. and the South Orkneys, summer 1988-1989. Figueiras, F.G., et al. [1990,spa] 50-5525
- Iceberg observations and estimation of submarine ridges in the western Weddell Sea. Viehoff, T., et al. [1995,eng] 50-1818
- Improved use of passive microwave data for sea ice detection. Heygster, G.C., et al. [1992,eng] 50-225
- Interaction between arctic and antarctic sea ice. Xie, S.M., et al. [1995,eng] 50-3417
- Microbial biology of melting Weddell Sea ice. Gleitz, M., et al. [1996,eng] 50-5677
- Microbial sea ice ecology at a coastal antarctic site. Archer, S.D., et al. [1996,eng] 50-5456
- Modeling the heating and melting of sea ice through light absorption by microalgae. Zeebe, R.E., et al. [1996,eng] 50-2844
- Morphology and morphogenesis of a new species of protozoa in sea ice. Petz, W., [1994,eng] 50-2584
- Ozone layer concentration over the Weddell Sea. Elanskii, N.F., et al. [1995,eng] 50-6328
- Partial disintegration of antarctic ice. Simões, J.C., [1995,por] 50-3936
- Pelagic bryozoan from Antarctica. Peck, L.S., et al. [1995,eng] 50-1827
- Physically based model of the form drag associated with sastrugi. Andreas, E.L., [1995,eng] 50-237
- Salinity tolerance of planktonic foraminifers in sea ice. Spindler, M., [1996,eng] 50-6035
- Science news from The Ice: highlights from the 1994-1995 austral summer. Simarski, L., [1995,eng] 50-6500
- Sea ice extent and surface mass accumulation in Amundsen, Bellingshausen and Weddell seas. Giovinetto, M.B., et al. [1993,eng] 50-3553
- Sea ice variation at the South Orkney Is. Murphy, E.J., et al. [1995,eng] 50-972
- Seasonal variations in antarctic sea ice brine chemistry. Gleitz, M., et al. [1995,eng] 50-1117
- Sediments from the southern Weddell Sea. Melles, M., et al. [1995,eng] 50-5442
- Southern ocean Pleistocene water mass circulation variations. Diester-Haass, L., et al. [1996,eng] 50-3389
- Spatial and temporal variability in southern ocean sea ice coverage. Stammerjohn, S.E., [1993,eng] 50-5520
- Status of a Weddell Sea foraminifer. Berberich, D., [1996,ger] 50-3867
- Stresses in sea ice in the neighboring force interaction zone. Nikitin, V.A., et al. [1995,eng] 50-5522
- Structure of internal stresses in the uncompacted ice cover. Sukhorukov, K.K., [1995,eng] 50-193
- Sulfide oxidation products in the antarctic atmosphere. Davison, B., et al. [1996,eng] 50-5615
- Taxonomy and ecology of the ciliate fauna of the Weddell Sea. Petz, W., et al. [1995,eng] 50-2582
- Trace elements in the Weddell Sea water and sediments in the continental shelf area. Niemistö, L., et al. [1995,eng] 50-1952
- Ultraviolet and visible solar irradiance at the Weddell-Scotia Confluence, spring 1993. Sikorski, R.J., et al. [1994,eng] 50-4244
- Vertical mixing processes in the western Weddell Sea. Robertson, R., et al. [1995,eng] 50-569
- Wave-pancake ice interactions. Shen, H.H., et al. [1994,eng] 50-2221
- Weddell Sea glaciomarine sedimentation variations. Crawford, K., et al. [1996,eng] 50-6261
- Weddell-I ice drift station in Antarctica. Melnikov, I.A., [1995,eng] 50-6689

Antarctica—West Antarctica

- Western Weddell stratification and ice cover. Gordon, A.L., et al. [1994,eng] 50-2224
- Wind events compared with polynya area estimates derived from SSM/I data. Markus, T., et al. [1993,eng] 50-5596
- Winter-summer differences of carbon dioxide and oxygen in the Weddell Sea surface layer. Hoppema, M., et al. [1995,eng] 50-3006
- Wintertime polar low over the eastern Weddell Sea. Heinemann, G., [1996,eng] 50-3708
- Antarctica—West Antarctica**
- Atmospheric circulation and sea ice extent in the west Antarctic Peninsula area. Harangozo, S.A., [1994,eng] 50-2992
- Contemporaneous volcanoes of Bransfield Rift, West Antarctica. Birkenmajer, K., [1993,eng] 50-2196
- Krill biomass variations in West Antarctica, 1981-1989. Godlewski, M., [1993,eng] 50-2186
- Satellite imagery of the onset of streaming flow of ice streams C and D, West Antarctica. Hodge, S.M., et al. [1996,eng] 50-4301
- West Antarctic ice sheet removal of subglacial volcanic artefacts. Behrendt, J.C., et al. [1995,eng] 50-2530
- Antarctica—Wilkes Land**
- Properties of antarctic maritime and coastal soils. Böller, M., et al. [1993,eng] 50-2567
- Sketch of hydrographic structure and circulation in the waters near Wilkes Land, Antarctica. Miao, Y.T., et al. [1989,chi] 50-6765
- Antarctica—Wilson, Lake**
- Climate change in the recent evolution of a pro-glacial lake. Webster, J., et al. [1996,eng] 50-3704
- Antarctica—Wright Peninsula**
- Using multiple data sources to enhance photogrammetry for mapping antarctic terrain. Fox, A.J., [1995,eng] 50-5536
- Antarctica—Wright Valley**
- Landscape evolution in Antarctica. Campbell, I.B., et al. [1988,eng] 50-6526
- Antarctica—Zhongshan Station**
- Direct measurements of atmospheric ozone at Zhongshan Station, Antarctica. Kong, Q.X., et al. [1996,chi] 50-5679
- Ice algae biomass variations around Zhongshan Station. He, J.F., et al. [1995,chi] 50-3642
- Observational study of the 93 "Ozone Hole" at Zhongshan Station, Antarctica. Zheng, X.D., et al. [1995,eng] 50-564
- Radiation and ozone data at Zhongshan and Great Wall stations, 1993-1994. Bian, L.G., et al. [1995,eng] 50-5916
- Variation of atmospheric ozone and NO₂ at Zhongshan Station, antarctic spring. Wang, Y.J., [1995,chi] 50-1230
- Antennas**
- Calibration of anemometers for use in icing conditions. Makkonen, L., et al. [1996,eng] 50-5348
- Combined wind and ice loads on telecommunication towers in Quebec, Phase I. Elfashny, K., et al. [1996,eng] 50-5353
- Development of a portable ice-thickness measuring instrument. Glynn, D.P., et al. [1992,eng] 50-4908
- Effect of icing on the dynamic behaviour of guyed antenna towers. Wahba, Y.M.F., et al. [1996,eng] 50-5378
- Ground-penetrating radar investigation of the proposed dome-CARA tunnel route (South Pole Station). Arcone, S.A., et al. [1995,eng] 50-4543
- Ice detection apparatus for transportation safety. Stolarczyk, L.G., et al. [1995,eng] 50-3475
- Icing countermeasures for small parabolic receiving antennas. Suzuki, M., et al. [1977,jpn] 50-5796
- Impact of potential TV tower icing on a nearby proposed expressway. Courtney, F.E., [1993,eng] 50-6664
- On radio detection of ultrahigh energy neutrinos in antarctic ice. Frichter, G.M., et al. [1996,eng] 50-4024
- Relocation of telecommunication facilities at Syowa Station. Takada, K., [1995,jpn] 50-3499
- Rotatable shortwave curtain antenna operable at very high wind speeds. Bruger, P., et al. [1996,eng] 50-6621
- Wind measurements at Ylläs broadcasting station 1982-1991. Lehtonen, P., [1992,eng] 50-3632
- Antifreezes**
- Action of HPLC6 antifreeze polypeptide in solution. Brooke-Taylor, C.A., et al. [1996,eng] 50-5298
- Amine freezing point depressant for soil stabilization. Hemstreet, D.A., et al. [1996,eng] 50-6144
- Antifreeze glycopeptides and peptides in fish from the Weddell and Lazarev seas. Wöhrmann, A.P.A., [1996,eng] 50-3959
- Antifreeze proteins and their potential use in frozen foods. Griffith, M., et al. [1995,eng] 50-5691
- Antifreeze proteins in winter rye are similar to pathogenesis-related proteins. Hon, W.C., et al. [1995,eng] 50-2853
- Antifreezes and frost resistance of concrete at early ages. Hama, Y., et al. [1995,eng] 50-2682
- Basic properties of expansive admixture with anti-freezing admixture in a grout. Nakamura, H., et al. [1995,eng] 50-2643
- Concrete/reinforcing steel bond strength of low-temperature concrete. Schroeder, H.P., et al. [1996,eng] 50-4757
- Congressional hearing on programs related to aircraft deicing, 1992. U.S. Congress. House. Committee on Public Works and Transportation, [1992,eng] 50-6204
- Cratering phenomena on aircraft anti-icing films. La Due, J., et al. [1996,eng] 50-4219
- Development of high-range antifreezing, water-reducing agent. Saitoh, K., et al. [1995,eng] 50-2645
- Effects of anti-icing fluid on wing lift during supercooled precipitation. Bouchard, G., et al. [1995,eng] 50-3255

- Energetically modified cement (EMC) for high performance concrete in winter concreting. Ronin, V., et al. [1995,eng] 50-2666
- Evaluation procedures for deicing chemicals and improved sodium chloride. Chappelow, C.C., et al. [1993,eng] 50-875
- Fish antifreeze protein inhibition of liposome leakage. Hays, L.M., et al. [1996,eng] 50-6220
- Freeze-thaw durability of concrete cured below 0°C using anti-freeze admixtures. Mason, M.R., et al. [1996,eng] 50-6122
- High-strength concrete for low temperature environment by using silica fume. Amaya, T., et al. [1995,eng] 50-2649
- Icing degrades aircraft performance; fluids provide best defense against ice on the ground. [1992,eng] 50-3575
- Insects in deep freeze. Barnes-Svarney, P., [1992,eng] 50-3035
- Introductory analysis of boundary-layer development on de/anti-icing fluid. Perron, E., et al. [1996,eng] 50-4217
- Isolation and identification of antifreeze protein with high activity in *Arctiophantus mongolicus*. Fei, Y.B., et al. [1994,chi] 50-1835
- Kinetics of gas hydrate formation and kinetic inhibition in offshore oil and gas operations. Englezos, P., [1995,eng] 50-171
- Low temperature ecology of a plant root bacterium. Sun, X.Y., et al. [1995,eng] 50-2733
- Low-heat high-strength concrete using admixtures in a low temperature environment. Horibe, K., et al. [1995,eng] 50-2646
- Manual for highway winter anti-icing practices. Ketcham, S.A., et al. [1996,eng] 50-6060
- Minimum thermal protection for cold weather masonry. Korhonen, C.J., et al. [1996,eng] 50-6118
- Molecular studies of a winter flounder antifreeze polypeptide. McDonald, S.M., [1995,eng] 50-676
- Patent for use of heat storing mixtures. Kakiuchi, H., [1995,jpn] 50-5071
- Roles of ice nucleators in cold tolerant invertebrates. Duman, J.G., et al. [1995,eng] 50-3281
- Small airline continues to win big battle against aircraft ground icing. [1992,eng] 50-3574
- Soil water pressure measurements in subzero air temperatures. Gordon, D.S., et al. [1995,eng] 50-420
- Temperature influence on concrete structures and its hardening. Krylov, B.A., et al. [1995,eng] 50-2668
- Test program for aircraft ground anti-icing fluids. Myers, B.B., [1992,eng] 50-3797
- Anticing additives**
- See [also]: Chemical ice prevention
- Arctic clothing**
- See [also]: Clothing
- Arctic deserts**
- See [also]: Deserts
- Arctic ice islands**
- See [also]: Ice islands
- Arctic landscapes**
- Algae in terrestrial phytocenoses of the east European Arctic. Patova, E., [1995,eng] 50-3175
- Anthropogenic impacts on biodiversity in the Arctic. Young, O.R., et al. [1995,eng] 50-3899
- Approaches to reconstructing the climate of the steppe-tundra biome. Barry, R.G., [1982,eng] 50-3378
- Arctic and alpine biodiversity: patterns, causes and ecosystem consequences. [1995,eng] 50-3888
- Arctic lichen collections from 1959 excursion. Thomson, J.W., et al. [1992,eng] 50-6522
- Arctic tundra biodiversity: a temporal perspective from Late Quaternary pollen records. Brubaker, L.B., et al. [1995,eng] 50-3894
- Assessing effects on cryogenic terrain. Zotova, L.I., et al. [1996,rus] 50-6846
- Canadian paleoenvironments derived from pollen macrofossils. Gajewski, K., et al. [1995,eng] 50-2131
- Case studies of geoprocesses and environmental change in mountains of northern Sweden. Rapp, A., [1995,eng] 50-4187
- Causes and consequences of plant functional diversity in arctic ecosystems. Chapin, F.S., III, et al. [1995,eng] 50-3902
- Causes of arctic plant diversity: origin and evolution. Murray, D.F., [1995,eng] 50-3890
- Climatic controls on rates of solifluction: variations within Europe. Matthews, J.A., et al. [1993,eng] 50-849
- Comparison of tundra-steppe development in Beringia. Gitterman, R.E., et al. [1982,eng] 50-3371
- Creation of high-productive seeding meadows on disturbed arctic lands. Tikhmenev, E.A., [1991,eng] 50-1744
- Dam construction for Norway's largest hydropower reservoir. Karlén, L.E., et al. [1995,eng] 50-5707
- Description of Kolyma River landscapes and soils. Smith, C.A.S., et al. [1995,eng] 50-4698
- Effects of mammals on ecosystem change at the Pleistocene-Holocene boundary. Zimov, S.A., et al. [1995,eng] 50-3895
- Energy balance of snow and partially snow covered areas in western Greenland. Harding, R.J., et al. [1995,eng] 50-5088
- Energy balance of snow and partially snow covered areas in western Greenland. Harding, R.J., et al. [1995,eng] 50-5088
- Enzymatic and morphological variations in arctic grasses. Aiken, S.G., et al. [1995,eng] 50-1068
- Evergreen shrub leaf variations in taiga and tundra landscapes. Kudo, G., [1995,eng] 50-2732
- Evolution of lowland landscapes in northeastern Asia during Late Quaternary time. Tomiardi, S.V., [1982,eng] 50-3370
- Formation of the cryo-ecological segment in Central Yakutia. Fedorov, A.N., [1996,rus] 50-6843

- Genetic differentiation in the population of common pine in northwestern Russia. IANBAEV, I.U.A., et al. [1994,rus] 50-272
- Genetic diversity of an arctic/alpine herb species. Bauert, M.R., [1996,eng] 50-5493
- Geochemical process responses to potential Scandinavian climatic change. Dixon, J.C., et al. [1995,eng] 50-4194
- Geological transect of the Brooks Range, Alaska. Kelley, J.S., et al. [1995,eng] 50-5198
- Geology of a Spitsbergen fault zone. Lamar, D.L., et al. [1995,eng] 50-4296
- Hearing on arctic coastal plain leasing to petroleum interests. U.S. Congress. House. Committee on Resources, [1995,eng] 50-3455
- Hillslope ice wedges and landform evolution on coastal arctic Canada. Mackay, J.R., [1995,eng] 50-3298
- History of the exploration of the vascular flora of Greenland. Pringle, J.S., [1995,eng] 50-3413
- Implications for changes in arctic plant biodiversity from environmental manipulation experiments. Callaghan, T.V., et al. [1995,eng] 50-3897
- Influence of local factors on solifluction rates, Spitsbergen. Svalbard. Repelewski-Pekalowa, J., et al. [1993,eng] 50-842
- Intralandscape diversity of the flora of the Tazovsky Peninsula. Khitun, O.V., [1995,eng] 50-3172
- Lichenometric analysis of the Kärkerieppe slush-avalanche fan, Kärkevagge, Sweden. Bull, W.B., et al. [1995,eng] 50-4191
- Lichenometric dating of arctic/alpine slope processes. McCarron, D., [1993,eng] 50-847
- Low summer temperatures: a potential mortality factor for high arctic soil microarthropods? Coulson, S.J., et al. [1995,eng] 50-1178
- Mammoth extinction: two continents and Wrangel Island. Martin, P.S., et al. [1995,eng] 50-650
- Meadow ecology in the polar Urals, Russia. Gorchakovskii, P.L., et al. [1996,eng] 50-5482
- Minimum area and cover-abundance scales as applied to polar desert vegetation. Lévesque, E., [1996,eng] 50-5489
- Molecular and genetic diversity of arctic bedding plants. Abbott, R.J., et al. [1995,eng] 50-4093
- Moss species discovered in Arctic Canada. Hedderson, T.A., et al. [1992,eng] 50-6523
- Nitrogen fixation in arctic vegetation and soils from Svalbard, Norway. Solheim, B., et al. [1996,eng] 50-4007
- Nitrogen soil dynamics in an arctic lowland ecosystem. Chapin, D.M., [1996,eng] 50-4340
- Northern exposure—traversing Baffin Island's icy reaches. Dunn, J., [1995,eng] 50-4358
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge, Alaska. Department of Environmental Conservation. Division of Environmental Quality, [1990,eng] 50-3913
- Paleoecological significance of Quaternary permafrost relics in arctic Canada. Murton, J.B., [1996,eng] 50-3645
- Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st, Burg Wartenstein, Austria, June 8-17, 1979, [1982,eng] 50-3369
- Parent materials of Wrangel Island. Oganessian, A.Sh., et al. [1995,eng] 50-1052
- Patterns and causes of arctic plant community diversity. Walker, M.D., [1995,eng] 50-3889
- Patterns, cause, changes and consequences on biodiversity in arctic and alpine ecosystems. Chapin, F.S., III, et al. [1995,eng] 50-3907
- Phenotype and chromosome variability in larch in Ural forest ecosystems. Putevkin, V.P., et al. [1994,rus] 50-270
- Phenotypic plasticity in leaves of four species of arctic *Festuca* (Poaceae). Ramesar-Fortner, N.S., et al. [1995,eng] 50-3301
- Planktonic DNA diversity in the Canadian high Arctic. Van Raay, T.J., et al. [1995,eng] 50-4092
- Plant ecology during desertification of an arctic salt marsh. Srivastava, D.S., et al. [1996,eng] 50-4523
- Plant effects on arctic ecosystem biogeochemical processes. Hobbie, S.E., [1995,eng] 50-3901
- Plant functional diversity and resource control of primary production in Alaskan arctic tundras. Shaver, G.R., [1995,eng] 50-3900
- Plant species diversity of Bely Island. Rebristaia, O.V., [1995,eng] 50-3176
- Plant-vertebrate herbivore interface in arctic ecosystems. Jefferies, R.L., et al. [1995,eng] 50-3905
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Quaternary sea level history in the Northwest Territories, Canada. Kerr, D.E., [1996,eng] 50-6553
- Radiocarbon dating evidence for mammoths on Wrangel Island, Arctic Ocean, until 2000 BC. Varianian, S.L., et al. [1995,eng] 50-649
- Relics of the xerophyte vegetation of Beringia in northeastern Asia. Iurtev, B.A., [1982,eng] 50-3376
- Remote sensing of East Greenland mafic intrusion lithology. Birnie, R.W., et al. [1989,eng] 50-3935
- Responses of arctic polar desert plant litter chemistry to climatic changes. Robinson, C.H., et al. [1995,eng] 50-5100
- Rock-weathering by the lichen *Lecidea auriculata* in an arctic alpine environment. McCarron, D., et al. [1995,eng] 50-416
- Satellite imagery of ice sheet drainage basins, Russian Arctic. Dowdeswell, J.A., et al. [1995,eng] 50-3327
- Seasonal frost mounds of arctic beaches, Tuktoyaktuk Peninsula, Northwest Territories. Campeau, S., et al. [1995,fre] 50-4882

Arctic Ocean

Artificial freezing

- Sensor mapping of arctic wetland distribution. Morrissey, L.A., et al. [1996,eng] 50-4764
- Snowmelt and slush torrents in Swedish Lapland. Gude, M., et al. [1995,eng] 50-4188
- Solifluction and creep rates 1972-1991, Kapp Linné, West Spitsbergen. Åkerman, H.J., [1993,eng] 50-841
- Solifluction in the Arctic and subarctic during the Holocene. Van Vliet-Lanoë, B., [1993,eng] 50-844
- Spitsbergen—Resources and economic development in a High Arctic island group. Thannheiser, D., [1996,ger] 50-6574
- Stability of tundra ecosystems and forecasting their reaction to anthropogenic transformation. Vil'chek, G.E., [1995,rus] 50-3970
- Steep latitudinal gradient of solar ultraviolet-B radiation in the arctic-alpine life zone. Caldwell, M.M., et al. [1980,eng] 50-1410
- Technology adaptation to arctic mineral resource development. Zamoshch, M.N., [1991,eng] 50-1754
- Temperature elevation effects on arctic soil insects. Coulson, S.J., et al. [1996,eng] 50-3529
- Temperatures in the plant communities of West Spitsbergen. Moczyłowski, E., et al. [1993,eng] 50-2192
- Tertiary paleostress regimes in arctic islands. Lepvrier, C., et al. [1996,eng] 50-6208
- Thermal environments of arctic soil organisms during winter. Coulson, S.J., et al. [1995,eng] 50-2811
- Thermal erosion in high arctic ecosystems in Spitsbergen. King, L., et al. [1993,eng] 50-843
- Topographic and thematic maps of the Spitsbergen Expedition, 1990-1992. Brunner, K., et al. [1994,ger] 50-1575
- Treeline/midge correlation, Northwest Territories, Canada. Walker, I.R., et al. [1995,eng] 50-3326
- Use of SAR satellite imagery to measure active layer moisture contents in arctic Alaska. Kane, D.L., et al. [1994,eng] 50-5695
- Utility of imaging spectrometry for lithologic mapping in Greenland. Rivard, B., et al. [1992,eng] 50-1651
- Vertical distribution of lichens on the mountain, Aucellabjerg, northeastern Greenland. Hansen, E.S., [1996,eng] 50-4344
- Arctic Ocean**
- 1993 biennial report. University of Washington. College of Ocean & Fisheries Science. Applied Physics Laboratory, [1993,eng] 50-5203
- ²²²Ra as a tracer for shelf water in the Arctic Ocean. Van der Loeff, M.M.R., et al. [1995,eng] 50-4564
- Acoustics probe sea-ice mechanics. Rajan, S.D., [1996,eng] 50-6675
- Aerosols composition over the Arctic Ocean. Shevchenko, V.P., et al. [1995,eng] 50-2061
- Analysis of spatial reverberation statistics in the central Arctic. LePage, K., et al. [1996,eng] 50-5191
- Arctic atmospheric aerosol number size distributions. Covert, D.S., et al. [1996,eng] 50-4315
- Arctic buoys send data around the world. [1992,eng] 50-6094
- Arctic Centre news, 1993, No.2. [1993,eng] 50-3598
- Arctic Centre news, 1993, No.3. [1993,eng] 50-3599
- Arctic conferences fail to be frozen. [1986,eng] 50-5652
- Arctic infrastructure—the need for dedicated Arctic research support. Pittenger, R.F., [1996,eng] 50-6676
- Arctic marine mammals as integrators and indicators of mercury in the Arctic. Wagemann, R., et al. [1995,eng] 50-881
- Arctic not so costly and design ice loads falling. [1990,eng] 50-5586
- Arctic Ocean atmospheric boundary layer structure and flow. Nilsson, E.D., [1996,eng] 50-4314
- Arctic Ocean dimethyl sulfide seasonal variability. Leck, C., et al. [1996,eng] 50-4313
- Arctic Ocean echosounding records. Bergmann, U., [1995,ger] 50-3155
- Arctic Ocean radioactive isotope distribution and transport. Scholten, J.C., et al. [1995,eng] 50-4563
- Arctic Ocean—a special natural cryogenic system. Danilov, I.D., [1996,rus] 50-6374
- Arctic pipelines get to grips with scour. [1990,eng] 50-5587
- Arctic platform evacuation vehicle. [1990,eng] 50-5588
- Arctic sea ice decreases related to wind variations. Maslanik, J.A., et al. [1996,eng] 50-6511
- Arctic tool out teeth on gloryhole. [1987,eng] 50-4288
- Atlantic water in the arctic basin. 2. Circulation. Dmitriev, N.E., et al. [1995,eng] 50-6549
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Atmospheric contribution to hydrologic variations in the Arctic. Walsh, J.E., et al. [1994,eng] 50-1034
- Buoy for all arctic seasons: the Ice-Ocean Environmental Buoy. Honjo, S.S., [1996,eng] 50-6673
- Buoys in the Arctic study heat exchange. Honjo, S.S., et al. [1996,eng] 50-6334
- Characteristics of Arctic Ocean climate based on COADS data, 1980-1993. Clark, M.P., et al. [1996,eng] 50-6545
- Climate change and biological oceanography of the Arctic Ocean. Gradinger, R., [1995,eng] 50-5233
- Climatological aspects of cyclone development and decay in the Arctic. Serreze, M.C., [1995,eng] 50-599
- Cloud condensation nuclei over the Arctic Ocean in early spring. Hegg, D.A., et al. [1995,eng] 50-348
- Comparative characteristics of polychaete taxocenoses in Pevék Strait, Chum Bay, and Long Strait. Gagev, S.I.U., [1995,eng] 50-2534
- Composition of clay mineral associations in bottom sediments of the Arctic Ocean. Levitan, M.A., et al. [1995,rus] 50-3768
- Computer simulation of arctic shelf freezing during the Pleistocene. Sigunov, I.U.A., et al. [1995,eng] 50-6582
- Contaminants in the arctic marine environment: priorities for protection. Macdonald, R.W., et al. [1996,eng] 50-5574
- Crustal structure of the Arctic Ocean. Gramberg, I.S., et al. [1992,eng] 50-3439
- CTD measurements in the Greenland Sea, 1993. Budéus, G., et al. [1996,eng] 50-5105
- Dense water formation on arctic shelves. Gawarkiewicz, G., et al. [1996,eng] 50-6671
- Depositional environment of the Laptev Sea shelf. Nürnberg, D., et al. [1995,eng] 50-940
- Dissolved organic matter in arctic sea ice. Thomas, D.N., et al. [1995,eng] 50-717
- Distribution and transport of atmospheric water vapour over the arctic basin. Serreze, M.C., et al. [1995,eng] 50-5217
- Downwelling radiation fluxes at the arctic surface based on parameterizations. Silcox, R.A., [1994,eng] 50-5303
- Evidence for Holocene seismic triggering of Arctic Ocean turbidities. Grantz, A., et al. [1996,eng] 50-6223
- Expanded record of Quaternary oceanographic change: Amerasian Arctic Ocean. Ishman, S.E., et al. [1996,eng] 50-3388
- Exploration of the Arctic Ocean by means of floating scientific stations. Männik, R., [1989,eng] 50-2930
- Fifteen years of arctic acoustics and ice camps. Von der Heydt, K., et al. [1996,eng] 50-6667
- Formation and evolution of the surface mixed layer and halocline of the Arctic Ocean. Rudels, B., et al. [1996,eng] 50-5261
- Glimpse beneath the ice. Plueddemann, A.J., [1996,eng] 50-6674
- Heat budgets of the Arctic Ocean and Nordic Seas. Simonsen, K., et al. [1996,eng] 50-4298
- How the Arctic's top field will be developed. [1987,eng] 50-4287
- Ice forming nuclei in the high Arctic. Bigg, E.K., [1996,eng] 50-4317
- Icebreakers transit Arctic for global climate studies. [1996,eng] 50-6677
- Improved segmentation of sea ice in radiometric imagery. Simpson, J.J., et al. [1995,eng] 50-3494
- Interaction of arctic fogs with aerosols. Nilsson, E.D., et al. [1996,eng] 50-4318
- Interannual variability of sea-level pressure, sea-ice and runoff over the Arctic. Power, S.B., et al. [1991,eng] 50-5258
- International Arctic Buoy Program Meeting in Oslo. Dugan, J.P., [1992,eng] 50-3932
- Investigation of the general circulation of the Arctic Ocean using an isopycnal model. Holland, D.M., et al. [1996,eng] 50-3822
- Ion-induced nucleation around radon daughters in remote arctic maritime air. Bigg, E.K., [1996,eng] 50-4322
- JAMSTEC coupled model of arctic sea-ice and ocean. Kakuta, S., et al. [1996,eng] 50-4478
- Late Quaternary paleoceanography of the Eurasian Basin, Arctic Ocean. Cronin, T.M., et al. [1994,eng] 50-658
- Maintaining the thermohaline circulation. Mauritzen, C., et al. [1996,eng] 50-6670
- Marine seismic profiling in ice covered regions. Jokait, W., et al. [1995,eng] 50-2568
- Mathematical model of pollution vectors in the arctic basin. Krapivin, V.F., et al. [1996,eng] 50-3412
- Meteorological support for navigation along the Northern Sea Route. Kondrat'ev, K.I.A., et al. [1994,eng] 50-648
- Modeling climatic sensitivity of European marginal seas. Backhaus, J.O., [1996,eng] 50-4022
- North-East Water polynya: satellite observations summer 1992 and 1993. Gudmandsen, P., et al. [1995,eng] 50-1814
- Nuclear submarines and oceanography in the Arctic. DeLaca, T., et al. [1996,eng] 50-3931
- Observations of anomalous oceanic crust in the Canada Basin, Arctic Ocean. Jackson, H.R., et al. [1995,eng] 50-410
- Occurrence of an algal bloom under arctic pack ice. Gradinger, R., [1996,eng] 50-4159
- Organic carbon of the Arctic Ocean. Wheeler, P.A., et al. [1996,eng] 50-4212
- Oscillatory behavior in arctic sea ice concentrations. Gloersen, P., et al. [1996,eng] 50-4300
- Overview of the Arctic Ocean Expedition of 1991 (IAOE-91). Leck, C., et al. [1996,eng] 50-4312
- Paleoclimatic significance of a new Arctic Ocean foraminiferal fauna. Mullen, M.W., et al. [1995,eng] 50-3349
- Paleomagnetic constraints on sedimentation rates in the eastern Arctic Ocean. Schneider, D.A., et al. [1996,eng] 50-6707
- Peculiarities of diatom thanatocoenoses formation in the sediments of the Eurasian arctic seas. Poliakova, E.I., [1995,eng] 50-2536
- Photooxidants in the marine arctic troposphere in summer. Weller, R., et al. [1996,eng] 50-5255
- Physical and geochemical properties across the Atlantic/Pacific water mass front in the southern Canadian Basin. McLaughlin, F.A., et al. [1996,eng] 50-2845
- Pleistocene foraminifera in Arctic Ocean piston cores. Evans, J.R., et al. [1995,eng] 50-3348
- Pliocene record in the central Arctic Ocean. Clark, D.L., [1996,eng] 50-6626
- Polar vision or tunnel vision: The making of Canadian Arctic waters policy. Huebert, R., [1995,eng] 50-4503
- Radioecological hazard of ship nuclear reactors sunken in the Arctic. Sivintsev, I.U.V., et al. [1996,eng] 50-5676
- Radionuclide tracer profiles on Arctic Ocean ice islands. Smith, J.N., et al. [1995,eng] 50-4560
- Reassessment of the Eurasian river input of water, sediment, major elements, and nutrients to the Arctic Ocean. Gordeev, V.V., et al. [1996,eng] 50-5693
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- Revegetation on tracked vehicle paths, Vestspitsbergen. Korolova, N.E., [1995,eng] 50-2569
- Ridging and strength in modeling the thickness distribution of arctic sea ice. Flato, G.M., et al. [1995,eng] 50-570
- River pollution of Russian northern seas. Rovinskiĭ, F.I.A., et al. [1995,eng] 50-6548
- Role of cryosols in the accumulation of current bottom sediments of the Arctic Ocean. Levitan, M.A., et al. [1995,rus] 50-4119
- Role of the Bering Strait in controlling North Atlantic ocean circulation and climate. Shaffer, G., et al. [1994,eng] 50-3769
- Role of the large-scale Arctic Ocean circulation in the transport of contaminants. Schlosser, P., et al. [1995,eng] 50-4556
- Scavenging rates affecting Arctic Ocean radionuclide distributions. Cochran, J.K., et al. [1995,eng] 50-4562
- Seasonal aerosol variability in the arctic marine boundary layer. Leck, C., et al. [1996,eng] 50-4320
- Simulation of the mixed-layer circulation in the Arctic Ocean. Holland, D.M., et al. [1996,eng] 50-2843
- Simulation of the seasonal arctic sea-ice cover with a dynamic thermodynamic sea-ice model. Holland, D.M., et al. [1993,eng] 50-5186
- Skimmers help clear Alaskan spillage. [1989,eng] 50-5648
- Small-scale physical processes in the Arctic Ocean. Padman, L., [1995,eng] 50-1162
- Solar heating of the arctic mixed layer. Maykut, G.A., et al. [1995,eng] 50-2775
- Source of summer arctic atmospheric aerosols. Maenhaut, W., et al. [1996,eng] 50-4321
- Statistical analysis of lithology of Arctic Ocean sediments. Darby, D.A., et al. [1996,eng] 50-5025
- Sudden changes in arctic atmospheric aerosol concentrations during summer and autumn. Bigg, E.K., et al. [1996,eng] 50-4319
- Sulfate deposition over the Arctic Ocean. Smith, L., [1995,eng] 50-643
- Taxonomic notes on recent benthic Foraminifera from Nansen Basin, Arctic Ocean. Wollenburg, J., [1992,ger] 50-3334
- Thermohaline circulation of the Arctic Ocean and the Greenland Sea. Rudels, B., [1995,eng] 50-5234
- Thermohaline circulation of the Arctic Ocean. Poliakov, I.V., et al. [1995,rus] 50-4118
- Thickness of summer Arctic Ocean multiyear ice. Eicken, H., et al. [1995,eng] 50-2112
- Transfer of European coastal pollution to the Arctic: radioactive tracers. Dahlgard, H., [1995,eng] 50-1136
- Transfer of reprocessing wastes from north-west Europe to the Arctic. Kershaw, P., et al. [1995,eng] 50-4559
- Turbulence in the statically unstable oceanic boundary layer under arctic leads. McPhee, M.G., et al. [1996,eng] 50-4297
- Ultrafine aerosol presence in the arctic atmospheric boundary layer. Wiedensohler, A., et al. [1996,eng] 50-4316
- Witness the Arctic, vol.3, no.1. Arctic Research Consortium of the United States, [1996,eng] 50-3930
- World Oil's handbook of arctic well completions. Goodman, M.A., [1978,eng] 50-2057
- Arctic regions**
- See [also]: Polar regions
- Argentina**
- Alpine glacial history reconstruction in Wyoming and Argentina. Gosse, J.C., [1994,eng] 50-672
- Discharge and fluvial sediment transport in a semi-arid Andean catchment. Barsch, D., et al. [1994,eng] 50-1544
- Periglacial landforms and sediments in Argentina. Trombotto, D., [1991,ger] 50-1684
- Argentina—Patagonia**
- Annual air-temperature measurement and ablation estimate at Moreno Glacier, Patagonia. Takeuchi, Y., et al. [1996,eng] 50-5512
- Holocene variations of Ameghino Glacier, southern Patagonia. Aniya, M., [1995,eng] 50-6081
- Recent climate changes in southern Patagonia. Ibarzabal y Donangelo, T., et al. [1996,eng] 50-5513
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- Artificial freezing in Tokyo subway construction. Ito, H., et al. [1992,eng] 50-37
- Artificial freezing suspended while Tower of Pisa foundation is anchored. Wheeler, P., [1995,eng] 50-885
- Artificial soil freezing for construction of railroad tunnel. Borkenstein, D., et al. [1992,eng] 50-32
- Calculation of frozen wall growth during artificial freezing sinking. Li, S.X., [1995,eng] 50-4521

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- Cold storage of agricultural products in artificial permafrost. Tsuchiya, F., et al. [1992,eng] 50-40
- Core preservation to aid arctic oil reservoir evaluation. MacGregor, K.W., et al. [1991,eng] 50-1740
- Dam construction in northern environment: a numerical study. Shen, M., et al. [1996,eng] 50-6168
- Development of models of freezing and convection during cryogenic pipe freezing. Keary, A.C., et al. [1996,eng] 50-6464
- Dynamic deformation characteristics of undisturbed riverbed gravels. Yasuda, N., et al. [1996,eng] 50-4861
- Exclusion of sodium chloride from ice during freezing. Cragin, J.H., [1995,eng] 50-3131
- Experimental system for one-dimensional freezing of undisturbed soil profiles. Johansson, H., et al. [1995,eng] 50-3758
- Foundation rehabilitation at ADOT/PF Jim River Maintenance Camp. Rooney, J.W., et al. [1991,eng] 50-1768
- Freeze sinking construction of Xie Qiao coal mine. Zhang, Y.X., [1992,eng] 50-42
- Freezing of a salt solution in a packed bed. Chelliah, S., et al. [1995,eng] 50-2956
- Frozen ground structures—basic principles of design. ISGF (International Symposium on Ground Freezing) Working Group 2, [1992,eng] 50-34
- Frozen shaft for nuclear waste disposal in Germany. Jordan, P., et al. [1992,eng] 50-29
- Frozen soil barrier technology. Oak Ridge National Laboratory. Hazardous Waste Remedial Actions Program (HAZWARP), [1995,eng] 50-2793
- Ground freezing 91, Vol.2. International Symposium on Ground Freezing, 6th, Beijing, Sep. 10-12, 1991, [1992,eng] 50-23
- Groundwater flow and heat conduction in soil around a freeze pipe. Hashemi, H.T., et al. [1996,eng] 50-4606
- Heat transfer in staggered and in-line tube bank designs for ice making. Intemann, P.A., et al. [1996,eng] 50-6447
- Ice and construction. Makkonen, L., ed. [1994,eng] 50-399
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- Investigation of the stress development during cryogenic pipe freezing. Keary, A.C., et al. [1996,eng] 50-6438
- Liquefaction resistance of silty sand based on in situ frozen samples. Yoshimi, Y., et al. [1996,eng] 50-5080
- Literature review on mechanical properties of frozen soil. Chen, X.S., et al. [1992,eng] 50-26
- Mathematical model of a freezing wall with freezing pipes. Gao, M., [1989,chi] 50-1400
- Methods for calculating the temperature field of a freezing wall. Fu, L.D., et al. [1989,chi] 50-1399
- Nonlinear creep of artificially frozen Emscher marl. Klein, J., [1978,ger] 50-3852
- Open-cut underground technology of permafrost placer mining in the Arctic. Lavrov, N.P., et al. [1991,eng] 50-1717
- Performance of a passively refrigerated gravel pad foundation in Fairbanks. Adamczak, S., Jr., [1996,eng] 50-6108
- Prediction of frost heave. Jones, R.H., [1981,eng] 50-2136
- Preliminary assessment of design and performance of frost susceptibility testing facilities. Dudek, S., [1977,eng] 50-2313
- Preliminary study on the calculation of deformation of frozen wall. Mi, H.Z., [1989,chi] 50-1397
- Protection of arctic bridge crossing by refrigerated foundation. Christopherson, A.B., et al. [1991,eng] 50-1734
- Recent ground freezing in Scandinavia. Berggren, A.L., [1992,eng] 50-35
- Reverse osmosis/direct contact freezing system for desalination plants. Madani, A.A., et al. [1989,eng] 50-4611
- Review of papers on artificial freezing in shaft sinking. Harris, J.S., [1992,eng] 50-31
- Review of papers on engineering problems of frozen ground. Thimus, J.F., [1992,eng] 50-28
- Role of nucleation in cryopreservation. Fahy, G.M., [1995,eng] 50-3288
- Sand liquefaction strength obtained by in situ freezing. Hatanaka, M., et al. [1995,eng] 50-1179
- Sinking of main shaft in Chengsilou Mine without freeze tube breakage. Pang, R.Q., [1992,eng] 50-39
- Soil freezing on the outside of a vertical two-phase closed thermosiphon. Gu, W.B., et al. [1996,eng] 50-6494
- Spray freezing to treat oil sands tailings pond water. Gao, W., et al. [1996,eng] 50-6112
- Stress calculation of frozen wall with viscoelastic plastic theory. Lou, G.D., [1989,chi] 50-1398
- Support of vertical-shaft collar under complex geocryological conditions. Izakson, V.I., et al. [1995,eng] 50-417
- Surface modifications to reduce thaw degradation of permafrost. Zarling, J.P., et al. [1996,eng] 50-6111
- Testing facilities—self refrigerating units. Frost cabinet temperature distribution. Hill, J., [1977,eng] 50-2314
- Testing methods for frozen soils. ISGF (International Symposium on Ground Freezing) Working Group 1, [1992,eng] 50-33
- Transport of natural gas as frozen hydrate. Gudmundsson, J.S., et al. [1995,eng] 50-170
- Two methods for the determination of lateral stress in sand. Hatanaka, M., et al. [1995,eng] 50-1180

- Use of frozen ground techniques in construction. Sanger, F.J., [1967,eng] 50-2478
- Wastewater treatment through atomizing freeze-crystallization. White, J.A., et al. [1995,eng] 50-3117
- World's first artificial ice plug for a hydro tunnel. Berggren, A.L., et al. [1995,eng] 50-5708
- Artificial ice**
- Ice and construction. Makkonen, L., ed. [1994,eng] 50-399
- Ice shell roof for use in cold areas. Kokawa, T., [1984,eng] 50-3166
- Phreatic water surface profiles along ice jams—an experimental study. Saadé, R.G., et al. [1996,eng] 50-6693
- Problems in producing artificial ice. Smorygin, G.I., [1990,rus] 50-1619
- Variation in ice strength at its interaction with ice and structures. Krasnov, I.U.N., [1990,eng] 50-97
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- Artificial ice crystals**
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- Artificial islands**
- Distinct element modelling of seabed-ice rubble interaction. Evgin, E., et al. [1993,eng] 50-5597
- NRC centre for ice loads on Beaufort Sea structures. Timco, G.W., [1996,eng] 50-3238
- Undrained shear strength for liquefaction flow failure analysis. Konrad, J.M., et al. [1995,eng] 50-1824
- Using sea ice as ice platforms and ice roads in fishery harbors. Okubo, Y., et al. [1996,jpn] 50-5889
- Artificial melting**
- Application of a snow melting system using heat pipes with electric cartridge heaters. Egawa, H., et al. [1996,eng] 50-6492
- Bubblers for ice melting. [1996,eng] 50-4182
- Calculation of the amount of salt required to melt ice and snow on highways. Schneider, T.R., [1962,eng] 50-3881
- Compositions containing ammonium salts and urea for melting of snow. Abe, H., et al. [1995,eng] 50-4595
- Current status and prospects of snow countermeasures in Nagasaki New Town. Komine, M., [1988,jpn] 50-2286
- Current technology of snow melting system using heat pipes in Japan. Sugihara, S., et al. [1996,eng] 50-6489
- Energy saving characteristics of new type road-heating system. Hokari, K., et al. [1996,eng] 50-5400
- Exhibition of snow removal equipment, Tokyo, 1988. [1988,jpn] 50-2288
- Ice storm management on an electrical utility system. Hall, J.W., [1996,eng] 50-5367
- Passive melting of ice and snow on solar photovoltaic arrays. Ross, M.M.D., et al. [1996,eng] 50-5370
- Preliminary study of melting snow and river ice by dusting using leaf mulch. Haehnel, R.B., et al. [1995,eng] 50-3120
- Progress report on experimental projects for snowproof housing. Takayama, Y., [1988,jpn] 50-2287
- Research on technology for conquering and exploiting snow. [1988,jpn] 50-2273
- Snow countermeasures on metropolitan expressways. Ishizawa, M., et al. [1988,jpn] 50-2282
- Snow melting on walkways at waterworks. Mikazuki, S., et al. [1992,jpn] 50-3139
- Technology assessment on systems for conquering and exploiting snow. [1987,jpn] 50-2289
- Temperature-controlled tests on a snow-removal system for photovoltaic panels. Gastonguay, L., et al. [1996,eng] 50-5403
- Test results and trends in the adoption of new technology for road snow melting. Sato, I., [1988,jpn] 50-2283
- Transmission line icing mechanism and study of new de-icing techniques. Jiang, X.L., et al. [1996,eng] 50-5368
- See [also]: Artificial thawing
- Artificial nucleation**
- Applications of bacterial ice nucleation activity in food processing. Watanabe, M., et al. [1995,eng] 50-3287
- Applications of biological ice nucleators in spray-ice technology. LaDuca, R.J., et al. [1995,eng] 50-3289
- Bacterial ice nucleation and its potential applications in the food industry. Li, J.K., et al. [1995,eng] 50-1956
- Biological control of insect pests using ice-nucleating microorganisms. Lee, R.E., Jr., et al. [1995,eng] 50-3284
- Biological ice nucleation and its applications. Lee, R.E., Jr., ed. [1995,eng] 50-3270
- Characterization of a novel ice-nucleating bacterium. Kawahara, H., et al. [1995,eng] 50-1960
- Hail prevention in southwestern France. Dessens, J., [1986,eng] 50-4912
- HIPLEX-1: experimental design and response variables. Smith, P.L., et al. [1984,eng] 50-4918
- HIPLEX-1: statistical evaluation. Mielke, P.W., Jr., et al. [1984,eng] 50-4919
- Ice active bacteria gene dynamics. Drinas, C., et al. [1995,eng] 50-2347
- Ice nucleation genes as reporters. Panopoulos, N.J., [1995,eng] 50-3285
- Physical interpretation of results from the HIPLEX-1 experiment. Cooper, W.A., et al. [1984,eng] 50-4920
- Principles of ice nucleation. Vali, G., [1995,eng] 50-3271
- Rocket flight cloud seeding during hail suppression experiments. Lacaux, J.P., et al. [1995,eng] 50-4971
- Role of nucleation in cryopreservation. Fahy, G.M., [1995,eng] 50-3288
- Studies on ice nucleating behavior of AgI-AgBr-CuBr system. Radhakrishnan, T., et al. [1996,eng] 50-4290

- Transduction of *ina* genes for bacterial identification. Wolber, P.K., et al. [1995,eng] 50-3286
- Artificial precipitation**
- Wintertime precipitation enhancement in the Great Dividing Range of Australia. Carter, E.J., [1994,eng] 50-686
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- Artificial snow in an aggregate form of snow granules. Miura, Y., et al. [1995,eng] 50-3467
- Artificial snow making equipment as seen in the patents. Seki, M., [1995,jpn] 50-1001
- Chemistry of artificial snow and its influence on the germination of mountain flora. Jones, H.G., et al. [1995,eng] 50-2428
- Galloping on overhead transmission test lines with artificial snow. Ozawa, A., et al. [1996,eng] 50-5379
- Land application turns wastewater into ice cubes. Madison, M., et al. [1994,eng] 50-2122
- Modeling winter storms over Arizona. Vol.2: microphysics model. Matthews, D.A., [1995,eng] 50-2799
- Modeling winter storms over Arizona. Vol.3: local-scale model. Medina, J.C., [1995,eng] 50-2800
- Modeling winter storms over Arizona. Final report—Volume 1. Matthews, D.A., et al. [1995,eng] 50-2798
- Ottawa firm makes wastewater 'white as snow'. Kneisel, S., [1996,eng] 50-6744
- Wastewater treatment through atomizing freeze-crystallization. White, J.A., et al. [1995,eng] 50-3117
- Wintertime precipitation enhancement in the Great Dividing Range of Australia. Carter, E.J., [1994,eng] 50-686
- See [also]: Snow manufacturing
- Artificial thawing**
- Determination of snowmelt factor in the Himalayan region. Singh, P., et al. [1996,eng] 50-5705
- Microwave thawing of frozen soils and gravels. Lindroth, D.P., et al. [1995,eng] 50-359
- Phase transformation in materials with nonuniform phase transition temperatures. Hong, J.S., et al. [1995,eng] 50-755
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- Atlantic Ocean**
- Atlantic Ocean sedimentary evidence for Pleistocene ice rafting. Robinson, S.G., et al. [1995,eng] 50-1110
- Biogenic composition of ice-rafted debris in Atlantic Ocean bottom sediment. van Kreveld, S.A., et al. [1996,eng] 50-5219
- Evidence for Heinrich layers off Portugal (Tore Seamount: 39°N, 12°W). Lebreiro, S.M., et al. [1996,eng] 50-5220
- Ice-rafted tephra sedimentation of the North Atlantic. Lacasse, C., et al. [1996,eng] 50-4140
- Identification of ice-rafted sediments in Atlantic Ocean bottom cores. Auffret, G.A., et al. [1996,eng] 50-5218
- Linking physical property records of Quaternary sediments to Heinrich events. Chi, J., et al. [1996,eng] 50-5221
- Meltwater event in the North Atlantic during last glacial maximum. Seidov, D., et al. [1996,eng] 50-6217
- North Atlantic paleoclimatic effects on primary productivity. Versteegh, G.J.M., et al. [1996,eng] 50-6620
- Palaeoclimate of the North Atlantic seaboard during the last glacial/interglacial transition. Lowe, J.J., et al. [1995,eng] 50-501
- Rapid climatic shifts during isotope stages 2-4 in the polar North Atlantic. Dokken, T.M., et al. [1996,eng] 50-6105
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- Bromine-chlorine coupling in the antarctic ozone hole. Danilin, M.Y., et al. [1996,eng] 50-3065
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- Datasets of the scintillation experiment at Seville, New Mexico. Otto, W.D., et al. [1996,eng] 50-3849
- Evidence for midwinter chemical ozone destruction over Antarctica. Vömel, H., et al. [1995,eng] 50-754
- Evidence for the removal of gaseous HNO₃ inside the arctic polar vortex in January 1992. Hopfner, M., et al. [1996,eng] 50-3064
- Fluxes of momentum and heat measured at Seville, New Mexico. Hill, R.J., et al. [1996,eng] 50-3850
- Heterogeneous atmospheric bromine chemistry. Lary, D.J., et al. [1996,eng] 50-3019
- Lagrangian transport calculations using UARS data. Part II: ozone. Manney, G.L., et al. [1995,eng] 50-365
- Mid stratospheric ozone minima in polar regions. Austin, J., et al. [1995,eng] 50-1181
- Numerical modeling of heterogeneous ozone depletion in polar stratospheric clouds. Smyshliaev, S.P., [1994,eng] 50-2109
- Photochemistry of chlorine dioxide in ice. Pursell, C.J., et al. [1995,eng] 50-154
- Precipitation parameters in natural obscuration. Hogan, A.W., [1990,eng] 50-734

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- Record low Siberian ozone levels. Bojkov, R.D., et al. [1995,eng] 50-1212
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- Results of the millimeter-wave instrument operated at Seville. New Mexico. Otto, W.D., et al. [1996,eng] 50-5666
- Satellite monitoring of antarctic stratosphere volcanic aerosols. Saxena, V.K., et al. [1995,eng] 50-591
- Simulated effects of dichlorine hexoxide on stratospheric ozone depletion. Parthiban, S., et al. [1995,eng] 50-2019
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- Sulfuric acid monohydrate: formation and heterogeneous chemistry in the stratosphere. Zhang, R.Y., et al. [1995,eng] 50-635
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- 130 years deposition record of sulfate, nitrate and chloride from a high-alpine glacier. Döschner, A., et al. [1995,eng] 50-4079
- Aerosol deposition to an alpine tundra ecosystem. Sievering, H., et al. [1996,eng] 50-5964
- Aerosols composition over the Arctic Ocean. Shevchenko, V.P., et al. [1995,eng] 50-2061
- Air Force Global Weather Central Surface Temperature model. Kopp, T.J., [1995,eng] 50-3300
- Airborne measurements of atmospheric methane over oil fields in western Siberia. Tohjima, Y., et al. [1996,eng] 50-6509
- Aircraft measurements of the stable carbon isotopic ratio of atmospheric methane over Siberia. Sugawara, S., et al. [1996,eng] 50-6051
- Arctic atmospheric aerosol number size distributions. Covert, D.S., et al. [1996,eng] 50-4315
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- Detection of air pollution at a Svalbard mountain station. Beine, H.J., et al. [1996,eng] 50-5205
- Downwelling radiation flux at continental surfaces. Garratt, J.R., et al. [1996,eng] 50-5018
- Erosion on Tian: past and present. Lorenz, R.D., et al. [1996,eng] 50-5832
- Evaporation from a small lake in the continental Arctic using multiple methods. Gibson, J.J., et al. [1994,eng] 50-5694
- Fluxes of momentum and heat measured at Seville. New Mexico. Hill, R.J., et al. [1996,eng] 50-3850
- GCM response to an antarctic polynya. Glowienka-Hense, R., [1995,eng] 50-3100
- Greenland atmospheric aerosol composition during a foehn. Kikuchi, K., et al. [1996,eng] 50-6216
- Hail prevention in southwestern France. Dessens, J., [1986,eng] 50-4912
- Ice forming nuclei in the high Arctic. Bigg, E.K., [1996,eng] 50-4317
- Influence of forest fire aerosols on sampling of polar atmospheres. Polissar, A.V., et al. [1996,eng] 50-5206
- Interaction of arctic fogs with aerosols. Nilsson, E.D., et al. [1996,eng] 50-4318
- Labrador Sea atmospheric circulation/sea-ice anomalies. Newell, J.P., [1996,eng] 50-6227
- Light dispersion and horizontal transparency in the surface boundary layer of the polar regions. Sakunov, G.G., et al. [1993,rus] 50-4507
- Measurements of Alaskan spring atmospheric ozone content. Beine, H.J., et al. [1996,eng] 50-6640
- Measurements of upward turbulent ozone fluxes above a subalpine spruce-fir forest. Zeller, K., et al. [1996,eng] 50-5289
- Mesoscale and microscale structure of a severe ice pellet storm. Hanesiak, J.M., et al. [1995,eng] 50-1526
- Model of arctic radiation fog trace gas processing. Bergin, M.H., et al. [1996,eng] 50-5764
- Modeling and observational study of East Antarctic surface mass balance. Connolly, W.M., et al. [1996,eng] 50-3017
- Modeling the summertime arctic cloudy boundary layer. Curry, J.A., et al. [1996,eng] 50-5275
- New formulation for the Bowen ratio over saturated surfaces. Andreas, E.L., et al. [1996,eng] 50-6570
- Nocturnal cloud observations over Greenland by a Rayleigh lidar. Thayer, J.P., et al. [1995,eng] 50-4542
- Numerical case study of a polar low in the Labrador Sea. Mailhot, J., et al. [1996,eng] 50-5869
- Numerical simulation of arctic stratus cloud turbulence. Smith, W.S., et al. [1996,eng] 50-2773
- O₃ and NO₂ fluxes over snow measured by eddy correlation. Stocker, D.W., et al. [1995,eng] 50-2151
- Observation of snowfall and airflow over a low mountain barrier. Nakai, S., et al. [1995,eng] 50-341
- Organization and results of aerological observations in the Aktru mountain glacier basin. Slutskii, V.I., [1973,rus] 50-424
- Origin of tropospheric ozone at remote high northern latitudes in summer. Mauzerall, D.L., et al. [1996,eng] 50-3449
- Ozone deposition in a subarctic woodland, pt.1. Munger, J.W., et al. [1996,eng] 50-6641
- Ozone layer concentration over the Weddell Sea. Elanskii, N.F., et al. [1995,eng] 50-6328
- Photooxidants in the marine arctic troposphere in summer. Weller, R., et al. [1996,eng] 50-5255
- Physical characteristics of arctic stratus clouds. Tsay, S.C., et al. [1984,eng] 50-4922
- Polar vortex edge definition from stratospheric lidar data. Dameris, M., et al. [1995,eng] 50-346
- Radioisotope examination of synoptical scale wind/cloud dynamics. Mace, G.G., et al. [1995,eng] 50-3256
- Relationship between snow cover boundary and air temperature. Kislov, A.V., [1994,eng] 50-6093
- Results of the millimeter-wave instrument operated at Seville. New Mexico. Otto, W.D., et al. [1996,eng] 50-5666
- Sea ice variations under doubled atmospheric carbon dioxide. Timbal, B., et al. [1995,eng] 50-2734
- Seasonal aerosol variability in the arctic marine boundary layer. Leck, C., et al. [1996,eng] 50-4320
- Sensible heat flux measurements near a cold surface. Yen, Y.-C., [1995,eng] 50-879
- Sensitivity of numerical prognoses to antarctic sea ice distribution. Watkins, A.B., et al. [1995,eng] 50-2111
- Solar heating of the arctic mixed layer. Maykut, G.A., et al. [1995,eng] 50-2775
- Source of summer arctic atmospheric aerosols. Maenhaut, W., et al. [1996,eng] 50-4321
- Space-time distribution of temperature inversions in the arctic atmospheric boundary layer. Nagurnyi, A.P., [1995,eng] 50-2728
- Study of the surface circulation to the north of Bransfield Strait, Antarctica. de Souza, R.B., [1992,spa] 50-6663
- Subgrid parameterization of surface heat and momentum fluxes over polar oceans. Vihma, T., [1995,eng] 50-2110
- Sudden changes in arctic atmospheric aerosol concentrations during summer and autumn. Bigg, E.K., et al. [1996,eng] 50-4319
- Surface ozone at high latitudes. Theodorsen, A., et al. [1996,eng] 50-4871
- Surface temperature from ERS-1 ATSR infrared thermal satellite data in polar regions. Stroeve, J., et al. [1996,eng] 50-6568
- Test of variant soil moisture conditions on the Canadian Global Forecast Model. Delage, Y., et al. [1995,eng] 50-1528
- Turbulent transfer over an antarctic ice shelf. Vinje, T.E., [1969,eng] 50-3953
- Two-year simulation of the Great Lakes region with a coupled modeling system. Bates, G.T., et al. [1995,eng] 50-1566
- U.S. FROST: Data and Science Plan. Report from the U.S. Science FROST Workshop, 2 and 3 August 1993. Bromwich, D.H., et al. [1993,eng] 50-3332
- Ultrafine aerosol presence in the arctic atmospheric boundary layer. Wiedenshöfer, A., et al. [1996,eng] 50-4316
- Validation of climate model for snow cover variations. Douville, H., et al. [1995,eng] 50-2735
- Weddell-I ice drift station in Antarctica. Mel'nikov, I.A., [1995,eng] 50-6689
- Winter surface energy budget in Denver, Colorado. Ruffieux, D., [1995,eng] 50-2152
- Yearly cycle of lower tropospheric ozone at the Arctic Circle. Rummukainen, M., et al. [1996,eng] 50-5614
- Atmospheric circulation**
- 2xCO₂ experiment with prescribed changes in sea surface temperature. Mahfouf, J.-F., et al. [1992,eng] 50-226
- Acid aerosols in rime on Kyushu, Japan. Nagafuchi, O., et al. [1995,eng] 50-4957
- Advances in Qinghai-Xizang Plateau meteorology. Zhang, J.J., et al. [1988,chi] 50-2179
- Aerosol-stratus cloud parameterization for middle and high latitudes. Olsson, P.Q., et al. [1996,eng] 50-5280
- Airborne studies of submicron aerosol in the troposphere over West Siberia. Panchenko, M.V., et al. [1996,eng] 50-5281
- Analysis of DDT, DDE and PCBs in the blood of *Pygoscelis* of Antarctica. Yang, H.F., et al. [1989,chi] 50-6776
- Approaches to reconstructing the climate of the steppe-tundra biome. Barry, R.G., [1982,eng] 50-3378
- Arctic and environmental change. Wadhams, P., ed, et al. [1995,eng] 50-5226
- Arctic atmospheric composition during episodic air pollution. Lejenäs, H., et al. [1996,eng] 50-6710
- Arctic oceanography: marginal ice zones and continental shelves. Smith, W.O., Jr., ed, et al. [1995,eng] 50-1159
- Arctic sea ice decreases related to wind variations. Maslanik, J.A., et al. [1996,eng] 50-6511
- Arktis 1993: report on the field phase with examples of measurements. Brümmer, B., ed. [1993,eng] 50-4945
- Asian summer monsoon sensitivity to Eurasian snow cover. Douville, H., et al. [1996,eng] 50-5863
- Atmosphere-ocean interactions in the marginal ice zones of the Nordic seas. Guest, P.S., et al. [1995,eng] 50-1161
- Atmosphere-surface interactions over polar oceans and heterogeneous surfaces. Vihma, T., [1995,eng] 50-4035
- Atmospheric aerosol in Tomsk. Zuev, V.V., [1996,eng] 50-5285
- Atmospheric circulation and sea ice extent in the west Antarctic Peninsula area. Harangozo, S.A., [1994,eng] 50-2992
- Atmospheric circulation in the region of Arcotowski Station, 1986-1989. Kejna, M., [1993,eng] 50-2204
- Atmospheric CO₂ over Showa Station. Murayama, S., et al. [1995,eng] 50-974
- Atmospheric ozone as a climate gas: general circulation model simulations. Wang, W.C., ed, et al. [1995,eng] 50-1771
- Atmospheric surface pressure over the interior of Antarctica. Radok, U., et al. [1996,eng] 50-5678
- Atmospheric water vapour budget over Greenland. Calanca, P., [1994,eng] 50-4944
- Avalanche climatology of the continental zone in the southern Rocky Mountains. Mock, C.J., [1995,eng] 50-969
- Behavior of tropospheric and stratospheric ozone in The Arctic and Antarctica. Taalas, P., [1993,eng] 50-4769
- Case analysis of antarctic strong cyclone process. Luo, Y.J., et al. [1989,chi] 50-6770
- Chemical composition of acid snowfall in northern part of Hokkaido. Satoh, F., et al. [1996,jpn] 50-6727
- Chemistry of ozone in the upper troposphere and lower stratosphere. Ravishankara, A.R., [1995,eng] 50-1777
- Chinese loess accumulation compared to Greenland ice core climatology. An, Z.S., et al. [1995,eng] 50-1065
- Circulation mechanisms in the atmosphere of the Northern Hemisphere in the 20th century. Dzerdzhevskii, B.L., [1968,rus] 50-3400
- Climate and ice-snow cover. Peng, G.B., et al. [1992,chi] 50-1168
- Climate change and GCM simulation of water resources from mountain snowpack. McGinnis, D.L., [1994,eng] 50-6690
- Climate dynamics and global change. Lindzen, R.S., [1994,eng] 50-5242
- Climate models and scenarios. Fortelius, C., et al. [1994,eng] 50-3185
- Climate of Inner Mongolia. Wang, W.H., ed, [1990,chi] 50-2172
- Climate of the Qinghai-Xizang Plateau. Dai, J.X., ed, [1990,chi] 50-2173
- Climate of Xinjiang. Li, J.F., ed, [1991,chi] 50-2174
- Climate simulations with a global atmosphere-ocean model, pt.1. Lunkeit, F., et al. [1996,eng] 50-4090
- Climatic atlas of Labrador Sea seasonal ice concentration. Wang, J., et al. [1991,eng] 50-5259
- Climatic features near the Tanggula Pass in the centre of the Tibetan Plateau. Zhang, Y.S., et al. [1995,eng] 50-4513
- Climatological aspects of cyclone development and decay in the Arctic. Serreze, M.C., [1995,eng] 50-599
- Comparison between neural network and statistical snowfall prediction methods. McGinnis, D.L., [1994,eng] 50-4356
- Concurrent ozone and temperature trends derived from ozone-sonde stations. Fortuin, J.P.F., et al. [1995,eng] 50-1774
- Connections between atmospheric ozone, the climate system and UV-B-radiation in the Arctic. Taalas, P., et al. [1995,eng] 50-1779
- Correlation between atmospheric pressure anomalies and snowpack accumulation. McCabe, G.J., Jr., et al. [1995,eng] 50-1551
- Coupled ice-ocean-atmosphere model of the Bering Sea. Hedstrom, K.S., [1995,eng] 50-6310
- Description of the Martian polar cap breeze. Fernández, W., [1995,eng] 50-3671
- Detection of air pollution at a Svalbard mountain station. Beine, H.J., et al. [1996,eng] 50-5205
- Development of field technology and methods for forecasting snowfall and snow cover. [1989,jpn] 50-2041
- Differences in the duration of snow cover on Scottish ski-slopes between mild and cold winters. Harrison, S.J., [1993,eng] 50-3014
- Distribution of $\delta^{18}\text{O}$ in precipitation on the Qinghai-Xizang Plateau. Zhang, X.P., et al. [1995,eng] 50-4512
- DTR and cloudcover in the Nordic countries: observed trends and estimates for the future. Kaas, E., et al. [1994,eng] 50-3027
- Dynamical influences on the antarctic ozone hole. Harvey, M.W., et al. [1996,eng] 50-6648
- Effect of atmospheric circulation on the formation of clouds in Hornsund. Niedzwiedz, T., et al. [1989,pol] 50-2905
- Effect of ENSO and Eurasian snow cover on the Asian summer monsoon. Li, C.F., [1994,eng] 50-681
- Effect of Eurasian snow cover on regional and global climate variations. Barnett, T.P., et al. [1993,eng] 50-6042
- Effect of orbital variations on past eolian deposits. Kutzbach, J.E., [1989,eng] 50-5410
- Effect of sea ice distribution on atmospheric circulation models. Grötzner, A., et al. [1996,eng] 50-5864
- Effect of solar activity on the recurrence of basic forms of atmospheric circulation. Bolotinskaia, M.Sh., [1990,rus] 50-331

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- Elementary circulation mechanisms and external mass and energy exchange on Svalbard glaciers. Markin, V.A., [1972.rus] 50-524
- Eolian dust in deep sea sediments from arctic pack ice. Pirman, S., et al. [1989.eng] 50-5408
- ERS-1 SAR wind vector data from the Norwegian continental shelf. Wackerman, C.C., et al. [1994.eng] 50-1511
- Evolution of water vapor in the southern polar stratosphere. Lahoz, W.A., et al. [1996.eng] 50-5011
- Flow patterns conducive to Wyoming mountain heavy snow. Darrow, M.A., [1995.eng] 50-6685
- Foehn winds on Kaffiöyra (NW Spitsbergen). Kejna, M., [1989.pol] 50-2911
- GCM modeling of the stratospheric dynamics and its coupling with chemistry. Cariolle, D., et al. [1995.eng] 50-1773
- GCM response to an antarctic polynya. Glowienka-Hense, R., [1995.eng] 50-3100
- GCM study of the climatic effect of 1979-1992 ozone trend. Liang, X.Z., et al. [1995.eng] 50-1776
- General circulation (GCM) modelling of palaeoclimates: a critique. Street-Perrott, F.A., [1991.eng] 50-3303
- General patterns in the transformation of macroprocesses in March-August. Bolotinskaia, M.Sh., [1990.rus] 50-326
- Glaciation onset related to Canadian tundra. Gallimore, R.G., et al. [1996.eng] 50-5212
- Glaciological zoning of the Earth. Tushinskiĭ, G.K., et al. [1973.rus] 50-421
- Greenhouse effect and the global environmental changes. Obrebska-Starkel, B., et al. [1991.pol] 50-5003
- Greenland ice core record of Holocene climate. O'Brien, S.R., et al. [1995.eng] 50-1797
- Heat content of the ocean baroclinic layer as a predictor of variability of atmospheric circulation. Vangengeim, T.G., et al. [1990.rus] 50-333
- Himalayan summer snow cover and withdrawal of the Indian summer monsoon. Dey, B., et al. [1985.eng] 50-4970
- Historical records of fatty acids in an ice core from Site-1, Greenland. Kawamura, K., et al. [1995.eng] 50-3247
- Hydrometeorology in Antarctica in 1985. Savitskiĭ, G.B., [1992.rus] 50-145
- Ice cloud microphysics in a general circulation model. pt.2. Fowler, L.D., et al. [1996.eng] 50-5016
- Ice-ocean seasonal cycle and climate response in Hudson Bay. Soucier, F.J., et al. [1995.eng] 50-5931
- Ice-volume forcing of East Asian winter monsoon variations in the past 800,000 years. Ding, Z.L., et al. [1995.eng] 50-965
- Integral indicator of atmosphere and ocean state in the eastern Arctic. Dmitriev, A.A., et al. [1990.rus] 50-335
- Interannual climate variability and snowpack in the western United States. Cayan, D.R., [1996.eng] 50-5529
- Interannual variability of sea-level pressure, sea-ice and runoff over the Arctic. Power, S.B., et al. [1991.eng] 50-5258
- Isotopic analysis of snow on Asian glacier surfaces. Aizen, V.B., et al. [1996.eng] 50-5256
- Labrador Sea atmospheric circulation/sea-ice anomalies. Newell, J.P., [1996.eng] 50-6227
- Late Quaternary lake-level record from northern Eurasia. Harrison, S.P., et al. [1996.eng] 50-4578
- Lidar measurements of global dust transport from the Taklimakan Desert. Itabe, T., et al. [1991.jpn] 50-1430
- Local circulation in a fjord and exchange of water with the adjacent ocean. Asplín, L., [1995.eng] 50-4134
- Long-range tropospheric transport of pollution aerosols into the Alaskan Arctic. Raatz, W.E., et al. [1984.eng] 50-4722
- Long-term variability of the atmospheric circulation over Spitsbergen. Niedzwiedz, T., [1993.eng] 50-2182
- Maintenance of the last great ice sheets: a UGAMP GCM study. Hall, N.M.J., et al. [1996.eng] 50-5531
- Meteorological conditions of the antarctic ozone hole. Cisneros, J.M., [1990.spa] 50-5527
- Mineral dust record in a high altitude alpine glacier (Colle Gnifetti, Swiss Alps). Wagenbach, D., et al. [1989.eng] 50-5411
- Model of arctic air pollution by sulfur aerosols. Dastoor, A.P., et al. [1996.eng] 50-5450
- Model of wintertime stratospheric circulation. Eluszkiewicz, J., et al. [1995.eng] 50-1330
- Modeling and observational study of East Antarctic surface mass balance. Connolley, W.M., et al. [1996.eng] 50-3017
- Modelling the summertime arctic cloudy boundary layer. Curry, J.A., et al. [1996.eng] 50-5275
- Modelling arctic climate change. Cattle, H., et al. [1995.eng] 50-5227
- Numerical analysis of atmospheric water cycle over Antarctica. Bromwich, D.H., et al. [1995.eng] 50-2020
- Numerical simulation of the Martian polar cap breeze. Fernández, W., [1995.eng] 50-3672
- Objective determination of the polar vortex using Ertel's potential vorticity. Nash, E.R., et al. [1996.eng] 50-5452
- Observational studies of the role of polar regions in mid-latitude ozone loss. Jones, R.L., et al. [1995.eng] 50-3094
- Ozone and NO₂ observations within the antarctic polar vortex. Gil, M., et al. [1990.spa] 50-5526
- Ozone anomalies during the Arctic Boundary Layer Experiment. Smarsh, D.A., [1994.eng] 50-677
- Ozone in northern Europe and in Antarctica, 1987-1990. Taalas, P., [1992.eng] 50-5272
- Ozone loss in middle latitudes and the role of the arctic polar vortex. Pyle, J.A., [1995.eng] 50-5230
- Past and present oceanic energy balance patterns. Newell, R.E., et al. [1989.eng] 50-5409
- Planetary waves in total ozone and their relation to antarctic ozone depletion. Bodeker, G.E., et al. [1995.eng] 50-4541
- Plate tectonics and climate change in the Cenozoic. Eldholm, O., et al. [1994.eng] 50-896
- Polar stratospheric cloud influence on arctic atmospheric chemistry. Jones, R.L., et al. [1990.eng] 50-6023
- Precipitations and atmospheric circulation over western Greater Caucasus. But, I.V., et al. [1973.rus] 50-423
- Precursory signals associated with the interannual variability of the Asian summer monsoon. Yang, S., et al. [1996.eng] 50-5530
- Preliminary analysis of the cyclone activity over the Antarctic Peninsula in summer. Wang, D.C., et al. [1989.chi] 50-6769
- Proceedings. Atmospheric Radiation Measurement (ARM) Science Team Meeting, 5th, San Diego, CA, Mar. 19-23, 1995, [1996.eng] 50-5274
- Proceedings. China Symposium on Southern Ocean Expedition, 1st, Hangzhou, May, 1988, [1989.chi] 50-6763
- Prognostic relationships for more accurate general meteorological forecasts. Vangengeim, T.G., [1990.rus] 50-327
- Qinghai-Xizang Plateau as a source region for climatic changes. Tang, M.C., et al. [1992.chi] 50-1479
- Radioisotope examination of synoptical scale wind/cloud dynamics. Mace, G.G., et al. [1995.eng] 50-3256
- Recent trends in ozone changes and increased greenhouse gases. Graf, H.F., et al. [1995.eng] 50-1775
- Reconstruction of 1000-year winter precipitation from tree rings in New Mexico. D'Arrigo, R.D., et al. [1991.eng] 50-5032
- Regional variations of moist static energy flux into the Arctic. Overland, J.E., et al. [1996.eng] 50-3816
- Relation between the Asian monsoon, Asian snow coverage, and Okhotsk sea ice. Sekine, Y., et al. [1996.eng] 50-5896
- Relations between atmospheric circulation and glacier mass balance. McCabe, G.J., Jr., et al. [1995.eng] 50-3323
- Relations between weather systems affecting Tibetan Plateau and oxygen isotope in precipitation. Zhang, X.P., et al. [1995.chi] 50-5619
- Relationship between atmospheric circulation and antarctic ozone depletion. Burchart, N., et al. [1996.eng] 50-3963
- Relationship of meridional and latitudinal gradients to synoptic processes. Kuznetsov, A.V., et al. [1990.rus] 50-320
- Remote-sensing data used in a polar atmosphere and cryosphere study. Hirasawa, N., et al. [1995.jpn] 50-1695
- Resolved: the Arctic controls global climate change. Alley, R.B., [1995.eng] 50-1167
- Results of testing of prognostic relationships for more accurate general meteorological forecasts. Bolotinskaia, M.Sh., et al. [1990.rus] 50-328
- Saharan dust recorded in Swiss alpine snow cover. Schwikowski, M., et al. [1995.eng] 50-778
- Satellite studies of pollution in the Barents and Kara seas. Kögeler, J., et al. [1995.eng] 50-4136
- Scientific plan for a regional research programme in the Arctic on global change. International Arctic Science Committee (IASC), Oslo, Norway, [1994.eng] 50-1508
- Sea-air exchange of sulfur, phosphorus, and nitrogen in marine aerosols over the Antarctic Peninsula waters. Chen, L.Q., et al. [1989.chi] 50-6775
- Simulations of stratospheric ozone in a climate model. Austin, J., et al. [1995.eng] 50-1772
- Small-scale physical processes in the Arctic Ocean. Padman, L., [1995.eng] 50-1162
- Snow and sea ice correlation to Chinese summer air temperatures. Fu, C.B., [1983.eng] 50-4099
- Snow distribution in Japan. Shitara, H., [1988.jpn] 50-2045
- Snowfall generated by surface topographic effects upon wind direction. Wesley, D.A., et al. [1995.eng] 50-1079
- Soil isotopic evidence of Quaternary atmospheric circulation variations in North America. Amundson, R., et al. [1996.eng] 50-2722
- Solar irradiance, air pollution and temperature changes in the Arctic. Stanhill, G., [1995.eng] 50-5231
- Sources and distribution of sulfate in the Pacific atmosphere. Chen, L.Q., et al. [1989.chi] 50-6786
- Spatial and temporal variability of North American snow cover, 1971-1992. Brown, R.D., [1995.eng] 50-3112
- Spring snowpack anomaly patterns and winter climatic variability, British Columbia, Canada. Moore, R.D., et al. [1996.eng] 50-3492
- Stratospheric ozone research in Finland, focusing on atmospheric modelling. Rummukainen, M., et al. [1995.eng] 50-1778
- Stratospheric polar vortex and sub-vortex: fluid dynamics and midlatitude ozone loss. McIntyre, M.E., [1995.eng] 50-5229
- Stratospheric temperature variations in the north polar vortex. Zurek, R.W., et al. [1996.eng] 50-3070
- Stratospheric water vapor annual cycle. Mote, P.W., [1995.eng] 50-626
- Structure and evolution of winter cyclones in the central United States and their effects on the distribution of precipitation. Part II: arctic fronts. Wang, P.Y., et al. [1995.eng] 50-1565
- Study on some kinds of weather systems over and around the Qinghai-Xizang (Tibet) Plateau. Luo, S.W., et al. [1992.chi] 50-2178
- Sulfur hexafluoride—a powerful new atmospheric tracer. Maiss, M., et al. [1996.eng] 50-5608
- Synoptic climatology of ablation on a New Zealand glacier. Hay, J.E., et al. [1988.eng] 50-2448
- Synoptic-statistical method of forecasting air temperature in the Arctic. Ivanov, V.V., [1990.rus] 50-329
- Transport of chemical species from the northern polar vortex. Norton, W.A., et al. [1995.eng] 50-5917
- Turbulent heat transfer in the atmosphere of the northern European basin. Martem'ianova, E.S., [1992.rus] 50-1272
- U.S. FROST: Data and Science Plan. Report from the U.S. Science FROST Workshop, 2 and 3 August 1993. Bromwich, D.H., ed. et al. [1993.eng] 50-3332
- Variability in atmospheric circulation and moisture flux over the Arctic. Serreze, M.C., et al. [1995.eng] 50-5228
- Verification and effectiveness of a method for long range meteorological forecasting in Antarctica. Rabtsevich, S.V., [1990.rus] 50-330
- Weather in the Himalaya Mountains, March through May. Qian, Z.J., [1982.chi] 50-6609
- Wind forcing of marine primary production in the northern atmospheric low-pressure belt. Sakshaug, E., et al. [1995.eng] 50-4130
- Winter ice in Okhotsk Sea and spring and summer climate in north Japan. Yamada, Y., [1996.jpn] 50-5903
- Winter storms over Canada. Stewart, R.E., et al. [1995.eng] 50-1852
- Wintertime polar low over the eastern Weddell Sea. Heinemann, G., [1996.eng] 50-3708
- Yearly cycle of lower tropospheric ozone at the Arctic Circle. Rummukainen, M., et al. [1996.eng] 50-5614
- Zonal and meridional components of atmospheric heat exchange in the northern European basin. Martem'ianova, E.S., [1992.rus] 50-1273
- Atmospheric composition**
- Acid pollutants in air and precipitation/deposition at the Sudeten Mountains, Poland. Kmiec, G., et al. [1995.eng] 50-4954
- Adsorption of methane on natural snow. Chaix, L., et al. [1996.eng] 50-5963
- Aerial component of the soil-formation substrate in the southern part of the Maritime Territory. Elpatievskii, P.V., et al. [1995.eng] 50-3876
- Aerosol-stratus cloud parameterization for middle and high latitudes. Olsson, P.Q., et al. [1996.eng] 50-5280
- Aerosols composition over the Arctic Ocean. Shevchenko, V.P., et al. [1995.eng] 50-2061
- Aerosols used as tracers for stratosphere-troposphere exchange in the Arctic. Foltescu, V.L., et al. [1995.eng] 50-777
- Age of carbon black atmospheric aerosols over Finland. Raunemaa, T., et al. [1996.eng] 50-5257
- Airborne Arctic Stratospheric Expedition: prologue. Turco, R.P., et al. [1990.eng] 50-5973
- Airborne lidar observations in the wintertime arctic stratosphere: ozone. Browell, E.V., et al. [1990.eng] 50-5976
- Airborne measurements of atmospheric methane over oil fields in western Siberia. Tohjima, Y., et al. [1996.eng] 50-6509
- Airborne Polar Experiment. CNR Direzione Centrale Attività Scientifiche, [1994.eng] 50-6197
- Airborne studies of submicron aerosol in the troposphere over West Siberia. Panchenko, M.V., et al. [1996.eng] 50-5281
- Aircraft measurements of the stable carbon isotopic ratio of atmospheric methane over Siberia. Sugawara, S., et al. [1996.eng] 50-6051
- Aircraft-generated aerosols and visible contrails. Kärcher, B., [1996.eng] 50-6544
- ALOMAR—a new facility for middle atmosphere research at arctic latitudes. Thrane, E.V., et al. [1995.eng] 50-4261
- Alteration of volatile inventories by polar clathrate formation on Mars. Musselwhite, D., et al. [1995.eng] 50-2133
- Analysis of DDT, DDE and PCBs in the blood of *Pygoscelis* of Antarctica. Yang, H.F., et al. [1989.chi] 50-6776
- Antarctic macroalgae—sources of volatile halogenated organic compounds. Laturneau, F., et al. [1996.eng] 50-5594
- Antarctic stratospheric spectroscopy using N₂O observations. Crewell, S., et al. [1995.eng] 50-1329
- Application of AMS ¹⁴C dating to ice core research. Wilson, A.T., [1995.eng] 50-5246
- Arctic atmospheric aerosol number size distributions. Covert, D.S., et al. [1996.eng] 50-4315
- Arctic atmospheric composition during episodic air pollution. Lejenäs, H., et al. [1996.eng] 50-6710
- Arctic atmospheric particle measurements from forward scattering spectrometer. Dye, J.E., et al. [1990.eng] 50-5995
- Arctic haze phenomenon. Shaw, G.E., [1995.eng] 50-4569
- Arctic polar stratospheric cloud observations by airborne lidar. McCormick, M.P., et al. [1990.eng] 50-5988
- Arctic tropospheric chemistry. Hernández, M.D.A., [1996.eng] 50-3868
- Aromatic hydrocarbons in Greenland ice and atmosphere. Masclet, P., et al. [1995.eng] 50-2572
- Artifact peroxides produced during cryogenic sampling of ambient air. Stauffach, T., et al. [1995.eng] 50-1187
- Atmospheric aerosol in the Finnish Arctic. Virkkula, A., et al. [1995.eng] 50-4952
- Atmospheric aerosol in Tomsk. Zuev, V.V., [1996.eng] 50-5285
- Atmospheric aerosol turbidity over polar regions. Radionov, V.F., et al. [1995.eng] 50-6326
- Atmospheric bromine in the Arctic. Berg, W.W., et al. [1983.eng] 50-3650
- Atmospheric carbon emission from North Asian lakes: a factor of global significance. Semiletov, I.P., et al. [1996.eng] 50-5609
- Atmospheric CO₂ and isotopic carbon-13 dioxide in ice-core air bubble. Wahlen, M., [1994.eng] 50-1894
- Atmospheric CO₂ in peat. White, J.W.C., et al. [1994.eng] 50-3770

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Atmospheric composition

- Atmospheric CO₂ over Showa Station. Murayama, S., et al. [1995,eng] 50-974
- Atmospheric CO₂ variations at Spitsbergen. Engardt, M., et al. [1996,eng] 50-3723
- Atmospheric CO₂ variations inferred from antarctic ice composition. Etheridge, D.M., et al. [1996,eng] 50-3446
- Atmospheric contribution to hydrologic variations in the Arctic. Walsh, J.E., et al. [1994,eng] 50-1034
- Atmospheric deposition and pollutant exposure of eastern U.S. forests. Mohnen, V.A., [1992,eng] 50-4052
- Atmospheric deposition at Niwot Ridge, CO. Rusch, D., et al. [1995,eng] 50-2395
- Atmospheric ozone as a climate gas: general circulation model simulations. Wang, W.C., ed. et al. [1995,eng] 50-1771
- Atmospheric ozone, its depletion and antarctic ozone hole. Ghosh, S.N., et al. [1994,eng] 50-1687
- Background stratospheric aerosol and polar stratospheric cloud reference models. McCormick, M.P., et al. [1996,eng] 50-6712
- Backscattering radar measurements of spherical ice cloud crystals. Prodi, F., et al. [1996,eng] 50-4502
- Balloon sounding of arctic stratospheric chemistry. Kondo, Y., et al. [1990,eng] 50-5999
- Behavior of tropospheric and stratospheric ozone in The Arctic and Antarctica. Taalas, P., [1993,eng] 50-4769
- Big freeze digs a deeper hole in ozone layer. Pearce, F., [1996,eng] 50-4204
- Biogenic emission of organobromine compounds to the Arctic Ocean and atmosphere. Sturges, W.T., et al. International Conference on Natural-Produced Halogens, Delft, The Netherlands, 1995. Edited by A. Grimwell and E.W.B. de Leer, [1995,eng] 50-4825
- Biomass burning signatures in Greenland snow and atmosphere. Dibb, J.E., et al. [1996,eng] 50-3152
- Boundary-layer ozone depletion as seen in the Norwegian arctic in spring. Solberg, S., et al. [1996,eng] 50-4152
- Brazilian network observations of the 1992 ozone hole. Kirchhoff, V.W.J.H., et al. [1993,eng] 50-562
- Bromoform emission from ice algae and arctic ozone depletion. Buckley, P.T., [1993,eng] 50-700
- CAO data on the dependence of ozone density and relative mixture on angle of maximum solar elevation. Poliakova, E.A., et al. [1992,rus] 50-137
- Cation trace analysis of snow and fir samples from high-alpine sites by ion chromatography. Döschner, A., et al. [1995,eng] 50-594
- CFCs dominance in the stratosphere. Russell, J.M., III, et al. [1996,eng] 50-3103
- Chemical characterization of individual aerosol particles in central Siberia. Van Malderen, H., et al. [1996,eng] 50-4966
- Chemical composition of snow between the Ronne Ice Shelf and the South Pole. Watanabe, O., et al. [1995,eng] 50-4388
- Chemical reactions in the polar stratosphere. Seisel, S., [1996,ger] 50-4734
- Chemistry of ozone in the upper troposphere and lower stratosphere. Ravishankara, A.R., [1995,eng] 50-1777
- Climate dynamics and global change. Lindzen, R.S., [1994,eng] 50-5242
- Climate of the penultimate ice age according to data from an antarctic ice core. Kotliakov, V.M., et al. [1993,rus] 50-4103
- Climatology of high-latitude air pollution as illustrated by Fairbanks and Anchorage, Alaska. Bowling, S.A., [1986,eng] 50-4910
- CO₂ flux through a Wyoming seasonal snowpack: diffusional and pressure pumping effects. Massman, W., et al. [1995,eng] 50-2400
- Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996,rus] 50-6382
- Concurrent ozone and temperature trends derived from ozone-sonde stations. Fortuin, J.P.F., et al. [1995,eng] 50-1774
- Connections between atmospheric ozone, the climate system and UV-B-radiation in the Arctic. Taalas, P., et al. [1995,eng] 50-1779
- Controls on CH₄ flux from an Alaskan boreal wetland. Moosavi, S.C., et al. [1996,eng] 50-6053
- Coupling PIXE and SEM/EDAX for characterizing atmospheric aerosols in ice-cores. Laj, P., et al. [1996,eng] 50-6324
- Deposition around a coal-fired power station during a winter-time precipitation event. Jylhä, K., [1995,eng] 50-4953
- Deposition of semivolatile organic chemicals by snow. Franz, T.P., Jr., [1994,eng] 50-372
- Detection and monitoring of H₂O and CO₂ ice clouds on Mars. Bell, J.F., III, et al. [1996,eng] 50-5195
- Detection of air pollution at a Svalbard mountain station. Beine, H.J., et al. [1996,eng] 50-5205
- Determining past atmospheric HCl mixing ratios from ice core analyses. Domine, F., et al. [1995,eng] 50-1104
- Diel variations of H₂O₂ in Greenland: a discussion of the cause and effect relationship. Bales, R.C., et al. [1995,eng] 50-634
- Dimethyl sulfide in the arctic atmosphere. Ferek, R.J., et al. [1995,eng] 50-2850
- Diode laser humidity sensor for cold environments. Phase II final technical report. Silver, J.A., et al. [1991,eng] 50-4525
- Distribution and transport of atmospheric water vapour over the arctic basin. Serreze, M.C., et al. [1995,eng] 50-5217
- Distribution of $\delta^{18}\text{O}$ in precipitation on the Qinghai-Xizang Plateau. Zhang, X.P., et al. [1995,eng] 50-4512
- Distribution of hydrogen peroxide in surface snow over antarctic ice sheet. Kamiyama, K., et al. [1996,eng] 50-3452
- Dry depositional loading of nitrogen to an alpine snowpack. Niwot Ridge, Colorado. Cress, R.G., et al. [1995,eng] 50-2396
- Dynamical influences on the antarctic ozone hole. Harvey, M.W., et al. [1996,eng] 50-6648
- Earth's atmospheric record in ice cores. Boutron, C.F., [1995,eng] 50-5069
- Ecological controls on peatland methane emissions in discontinuous permafrost. Bubier, J.L., et al. [1995,eng] 50-2803
- Effect of dynamical mixing in a simple model of the ozone hole. Edouard, S., et al. [1996,eng] 50-6332
- Effect of ethanol additives on odor detection of Alaskan gasolines. Zhao, X.H., et al. [1995,eng] 50-3393
- Effects of sea ice cover on atmospheric methane over the Sea of Okhotsk. Lammers, S., et al. [1995,eng] 50-1147
- Equilibrium constant for the reaction of ClO + O₂ <-> ClO₂. Demore, W.B., [1990,eng] 50-4732
- Estimates of Greenland atmospheric impurity variations during deglaciation. Alley, R.B., et al. [1995,eng] 50-1872
- Estimation of aerosol deposition to a snow surface. Sharma, M., et al. [1995,eng] 50-3011
- Evidence for arctic ozone depletion in late February and early March 1994. Manney, G.L., et al. [1995,eng] 50-4540
- Evidence of arctic-wide atmospheric aerosols from DMSF visible imagery. Shine, K.P., et al. [1984,eng] 50-4494
- Evidence of mechanism for polar stratospheric cloud dehydration. Gandrud, B.W., et al. [1990,eng] 50-6003
- Evolution of factors affecting gas transmissivity of snow in the boreal forest. Hardy, J.P., et al. [1995,eng] 50-2398
- First observational evidence for condensation of Io's SO₂ atmosphere on the nightside. Buratti, B.J., et al. [1995,eng] 50-2154
- Formation of nitric acid hydrates—a chemical equilibrium approach. Smith, R.H., [1990,eng] 50-4728
- Formation of polar stratospheric clouds on preactivated background aerosols. Zhang, R.Y., et al. [1996,eng] 50-6510
- Future chlorine-bromine loading and ozone depletion. Prather, M.J., et al. [1991,eng] 50-2787
- GCM modeling of the stratospheric dynamics and its coupling with chemistry. Cariolle, D., et al. [1995,eng] 50-1773
- GCM study of the climatic effect of 1979-1992 ozone trend. Liang, X.Z., et al. [1995,eng] 50-1776
- Geographic information system for SILMU and the modelling of soil carbon flows. Alm, J., et al. [1994,eng] 50-3230
- Global three-dimensional constituent fields derived from profile data. Douglass, A.R., et al. [1990,eng] 50-6018
- Greenland atmospheric aerosol composition during a foehn. Kikuchi, K., et al. [1996,eng] 50-6216
- Greenland ice core record of Holocene climate. O'Brien, S.R., et al. [1995,eng] 50-1797
- Ground-based aerosol measurements at Arrival Heights, Antarctica. Kreher, K., et al. [1996,eng] 50-6681
- HCl on stratospheric ice. Gertner, B.J., et al. [1996,eng] 50-4859
- Heterogeneous chemistry of polar stratospheric clouds. Mather, J.H., et al. [1990,eng] 50-4726
- Heterogeneous processes: laboratory, field, and modeling studies. Poole, L.R., et al. [1991,eng] 50-2784
- High-resolution ammonium ice core record covering a complete glacial-interglacial cycle. Fuhrer, K., et al. [1996,eng] 50-3448
- Hydrogen species partitioning in the arctic stratosphere. Schiller, C., et al. [1996,eng] 50-5766
- Impact of atmospheric changes on alpine vegetation: the ecophysiological perspective. Körner, Ch., [1995,eng] 50-1014
- Impact of global warming on tundra and forest ecosystems. Plöchl, M., et al. [1995,eng] 50-4865
- Impact of stratospheric flight on ozone. Pitari, G., et al. [1995,eng] 50-557
- In situ measurements of NO₂ in the Airborne Arctic Stratospheric Expedition. Carroll, M.A., et al. [1990,eng] 50-6011
- Increased assimilation of CO₂ by northern land plants. Keeling, C.D., et al. [1996,eng] 50-5524
- Increasing greenhouse gases indicate climate changes. Tokioka, T., [1995,eng] 50-141
- Infrared absorption coefficients of gaseous chlorine nitrate at 296 K. Tuazon, E.C., et al. [1989,eng] 50-4709
- Initial assessment of multi-scale measures of CO₂ and H₂O flux in the Siberian taiga. Hollinger, D.Y., et al. [1995,eng] 50-3810
- Interpretation of nitric oxide profile observed in January 1992 over Kiruna. Kondo, Y., et al. [1996,eng] 50-6637
- Interpretation of OCIO measurements. Sessler, J., et al. [1995,eng] 50-1521
- Ion-induced nucleation around radon daughters in remote arctic maritime air. Bigg, E.K., [1996,eng] 50-4322
- Ionic constituents of surface snow samples, 1992-1993. Osada, K., et al. [1995,eng] 50-4389
- Lidar measurements of arctic polar ozone depletion. Wirth, M., et al. [1996,eng] 50-5286
- Lidar measurements of global dust transport from the Taklimakan Desert. Itabe, T., et al. [1991,jpn] 50-1430
- Lidar of Canadian arctic stratospheric ozone. Donovan, D.P., et al. [1995,eng] 50-3095
- Long-range tropospheric transport of pollution aerosols into the Alaskan Arctic. Raatz, W.E., et al. [1984,eng] 50-4722
- Low brightness temperatures of Martian polar caps: CO₂ clouds or low surface emissivity? Forget, F., et al. [1995,eng] 50-2120
- Low ozone concentrations in mid-latitude ice clouds. Reichardt, J., et al. [1996,eng] 50-6543
- Martian atmospheric carbon 14 as indicator of atmosphere-regolith gas exchange. Jakosky, B.M., et al. [1996,eng] 50-3009
- Measurements of Alaskan spring atmospheric ozone content. Beine, H.J., et al. [1996,eng] 50-6640
- Measurements of nitrogen oxides in the Arctic. Honrath, R.E., et al. [1990,eng] 50-6028
- Measurements of upward turbulent ozone fluxes above a subalpine spruce-fir forest. Zeller, K., et al. [1996,eng] 50-5289
- Mechanisms of direct and indirect climate forcing by aerosols in the arctic region. Blanchet, J.P., [1995,eng] 50-1642
- Mending the ozone hole: science, technology, and policy. Makhijani, A., et al. [1995,eng] 50-2523
- Mesospheric ozone investigations in south polar regions. Brezgin, N.I., et al. [1992,rus] 50-136
- Meteorological conditions of the antarctic ozone hole. Cisneros, J.M., [1990,spa] 50-5527
- Methane emissions from wetlands at northern treeline. Rouse, W.R., et al. [1995,eng] 50-75
- Methane flux along a Siberian tundra transect. Christensen, T.R., et al. [1995,eng] 50-1334
- Methane plumes near Bear Island, Barents Sea. Lammers, S., et al. [1995,eng] 50-748
- Mineral dust record in a high altitude alpine glacier (Colle Gnifetti, Swiss Alps). Wagenbach, D., et al. [1989,eng] 50-5411
- Model for measuring PAH deposits on snow. Sharma, M., et al. [1995,eng] 50-3037
- Model of arctic radiation fog trace gas processing. Bergin, M.H., et al. [1996,eng] 50-5764
- Model study of polar stratospheric clouds, pt.2. Tie, X.X., et al. [1996,eng] 50-6639
- Molecules on ice. Clary, D.C., [1996,eng] 50-4858
- Monitoring organic pollutants in the Arctic in 1992. Fellin, P., et al. [1996,eng] 50-4359
- Nitric oxide measurements in the arctic winter stratosphere. Fahey, D.W., et al. [1990,eng] 50-6010
- Nitrogen deposition and release in alpine watersheds. Loch Vale, Colorado, USA. Campbell, D.H., et al. [1995,eng] 50-2416
- North Polar stratospheric cloud dynamics. Rosen, J.M., et al. [1990,eng] 50-4723
- Numerical analysis of atmospheric water cycle over Antarctica. Bromwich, D.H., et al. [1995,eng] 50-2020
- O₃ and NO₂ fluxes over snow measured by eddy correlation. Stocker, D.W., et al. [1995,eng] 50-2151
- Observational study of the 93 "Ozone Hole" at Zhongshan Station, Antarctica. Zheng, X.D., et al. [1995,eng] 50-564
- Observations of polar stratospheric clouds in the arctic winter 1989 at 79°N. Krüger, B.C., [1990,eng] 50-5984
- On the age of stratospheric air and inorganic chlorine and bromine release. Daniel, J.S., et al. [1995,eng] 50-6331
- On the concentrations of O₂, N₂, and Ar in trapped gases from ice cores. Bender, M., et al. [1995,eng] 50-633
- Origin of present-day antarctic precipitation from surface snow deuterium excess data. Ciais, P., et al. [1995,eng] 50-636
- Origin of tropospheric ozone at remote high northern latitudes in summer. Mauzerall, D.L., et al. [1996,eng] 50-3449
- Ozone and NO₂ observations within the antarctic polar vortex. Gil, M., et al. [1990,spa] 50-5526
- Ozone and temperature trends. Stolarski, R., et al. [1991,eng] 50-2783
- Ozone anomalies during the Arctic Boundary Layer Experiment. Smarsh, D.A., [1994,eng] 50-677
- Ozone deposition in a snow-covered subalpine spruce-fir forest environment. Zeller, K., et al. [1995,eng] 50-2394
- Ozone deposition in a subarctic woodland, pt.1. Munger, J.W., et al. [1996,eng] 50-6641
- Ozone hole and the 1995 Nobel Prize in chemistry. Berger, A., [1996,fre] 50-5924
- Ozone in northern Europe and in Antarctica, 1987-1990. Taalas, P., [1992,eng] 50-5272
- Ozone layer concentration over the Weddell Sea. Elanskii, N.F., et al. [1995,eng] 50-6328
- Ozone layer: the road not taken. Prather, M., et al. [1996,eng] 50-5214
- Ozone loss in middle latitudes and the role of the arctic polar vortex. Pyle, J.A., [1995,eng] 50-5230
- Ozone observations on Antarctic Peninsula. Taalas, P., et al. [1993,spa] 50-3554
- Palaeo-ecophysiological studies on cretaceous and tertiary fossil floras. Beerling, D.J., [1994,eng] 50-895
- Paleoclimatic atmospheric chemical changes inferred from fossil leaf density. Beerling, D.J., et al. [1995,eng] 50-6563
- Paleoclimatic CO₂ record related to changes in oceanic thermohaline circulation. Figge, R.A., et al. [1995,eng] 50-1149
- Periodic variations in air-water gas exchange of Arctic Ocean insecticide pollutants. Jantunen, L.M., et al. [1995,eng] 50-1862
- Peroxide concentrations in the Dome Summit South ice core, Law Dome, Antarctica. van Ommen, T.D., et al. [1996,eng] 50-6327
- Photochemistry of Triton's atmosphere and ionosphere. Krasnopolsky, V.A., et al. [1995,eng] 50-2121
- Photometry of Mt. Pinatubo aerosols at Spitsbergen. Beyerle, G., et al. [1995,eng] 50-1183
- Photooxidants in the marine arctic troposphere in summer. Weller, R., et al. [1996,eng] 50-5255
- Physicochemical properties and partitioning of organochlorine compounds in air and water. Falconer, R.L.M., [1994,eng] 50-688

Atmospheric condensation

- Plausible hydrological scenario for the Bølling-Allerød atmospheric methane increase. Kalin, R.M., et al. [1996,eng] 50-4376
- Polar clouds and sulfate aerosols. Tolbert, M.A., [1996,eng] 50-5066
- Polar Ozone and Aerosol Measurement instrument. Glaccum, W., et al. [1996,eng] 50-5765
- Polar stratospheric clouds observed by lidar at McMurdo Station during the 1993 winter. Adriani, A., et al. [1994,eng] 50-4239
- Potential role of peatland dynamics in ice-age initiation. Klinger, L.F., et al. [1996,eng] 50-4587
- Predicting the Vostok CO₂ curve. Saltzman, B., et al. [1995,eng] 50-821
- Pressure cutoff effects on polar stratospheric chemistry. Cerniglia, M.C., et al. [1995,eng] 50-588
- Pressure dependence of the reaction between ClO and OClO at 226 K. Parr, A.D., et al. [1990,eng] 50-4733
- Proceedings. Atmospheric Radiation Measurement (ARM) Science Team Meeting, 5th, San Diego, CA, Mar. 19-23, 1995. [1996,eng] 50-5274
- Processes affecting the CO₂ concentrations measured in Greenland ice. Ankin, M., et al. [1995,eng] 50-975
- PSC nucleation hindered by H₂SO₄-H₂O. Koop, T., et al. [1996,eng] 50-5068
- Radiative forcing of climate. Ramaswamy, V., et al. [1991,eng] 50-2786
- Radiometry of Scandinavian atmospheric chemistry. Wehr, T., et al. [1995,eng] 50-1332
- Recent air pollution variations inferred from Greenland ice sheet heavy metal concentrations. Candelone, J.P., et al. [1995,eng] 50-590
- Recent trends in ozone changes and increased greenhouse gases. Graf, H.F., et al. [1995,eng] 50-1775
- Reconstructed model of trace gases vertical distribution. Karol, I.L., et al. [1995,eng] 50-625
- Recovery of ozone in the lower stratosphere at the South Pole during the spring of 1994. Hofmann, D.J., et al. [1995,eng] 50-1182
- Relations between weather systems affecting Tibetan Plateau and oxygen isotope in precipitation. Zhang, X.P., et al. [1995,chi] 50-5619
- Relationship between atmospheric composition and snow composition for HCl and HNO₃. Domine, F., et al. [1995,eng] 50-2392
- Release of volatile halogenated organic compounds by uniaxial cultures of polar macroalgae. Laturnus, F., [1995,eng] 50-1202
- Report on acidification in the arctic countries. Nenonen, M., [1991,eng] 50-3418
- Report on heavy metals. Melnikov, S.A., [1991,eng] 50-3419
- Response of soil carbon to climate change. McGuire, A.D., et al. [1995,eng] 50-4866
- Results from the 1994 Boreal Ecosystem-Atmosphere Study (BOREAS). Sellers, P., et al. [1995,eng] 50-4574
- Rocket-borne spectrometry of arctic stratospheric chemistry. Schlager, H., et al. [1990,eng] 50-5998
- Role of atmospheric waves in the laminated structure of ozone profiles at high latitude. Teitelbaum, H., et al. [1996,eng] 50-5871
- SAM II aerosol measurements during the 1989 AASE. Osborn, M.T., et al. [1990,eng] 50-5992
- Satellite observation of arctic ozone depletion. Müller, R., et al. [1996,eng] 50-6636
- Scientific plan for a regional research programme in the Arctic on global change. International Arctic Science Committee (IASC), Oslo, Norway, [1994,eng] 50-1508
- Sea ice variations under doubled atmospheric carbon dioxide. Timbal, B., et al. [1995,eng] 50-2734
- Sea-air exchange of sulfur, phosphorus, and nitrogen in marine aerosols over the Antarctic Peninsula waters. Chen, L.Q., et al. [1989,chi] 50-6775
- Seasonal aerosol variability in the arctic marine boundary layer. Leck, C., et al. [1996,eng] 50-4320
- Seasonal cycle of C₂-C₃ hydrocarbons over the Baltic Sea and northern Finland. Laurila, T., et al. [1996,eng] 50-5607
- Seasonal variability in CO₂ transport through snow in a boreal forest. Winston, G.C., et al. [1995,eng] 50-2399
- Siberian tundra CO₂ flux as a source of seasonal CO₂ variations. Zimov, S.A., et al. [1996,eng] 50-5868
- Simple model to estimate atmospheric concentrations of aerosol chemical species based on snow core chemistry at Summit, Greenland. Bergin, M.H., et al. [1995,eng] 50-3097
- Simulation of arctic stratospheric response to aerosol perturbations. Zhao, X.P., et al. [1996,eng] 50-6680
- Simulations of stratospheric ozone in a climate model. Austin, J., et al. [1995,eng] 50-1772
- Snowpack evidence of air pollution in Lapland and the Kola Peninsula. Lindroos, A.J., et al. [1995,eng] 50-4955
- Soil-mediated effects of atmospheric deposition on eastern U.S. spruce-fir forests. Johnson, D.W., et al. [1992,eng] 50-4055
- Sounding of aerosol formation in the arctic stratosphere. Hofmann, D.J., et al. [1990,eng] 50-4725
- Sounding of nitric acid aerosol in the arctic stratosphere. Schlager, H., et al. [1990,eng] 50-4724
- Sounding of polar stratospheric ozone annual variations. Grunzev, A.N., et al. [1995,eng] 50-4748
- Source gases: concentrations, emissions, and trends. Fraser, P., et al. [1991,eng] 50-2782
- Source of summer arctic atmospheric aerosols. Maenhaut, W., et al. [1996,eng] 50-4321

- Sources and distribution of sulfate in the Pacific atmosphere. Chen, L.Q., et al. [1989,chi] 50-6786
- Sources of biogenic sulfur in the high Arctic. Hopke, P.K., et al. [1995,eng] 50-589
- Sources of organic carbon aerosols in the arctic atmosphere. Kawamura, K., et al. [1996,eng] 50-5611
- Spaceborne observation of atmospheric precursors to polar stratospheric cloud formation. Geller, M.A., et al. [1995,eng] 50-4539
- Spectra of polar mesospheric noctilucent cloud ice nuclei. Sugiyama, T., et al. [1996,eng] 50-4255
- Spectrometry of atmospheric emission over the South Pole. Van Allen, R., et al. [1996,eng] 50-4328
- Spectroscopic study of heavy ozone isotopes in the arctic atmosphere. Meier, A., et al. [1996,eng] 50-3550
- Spectroscopy of antarctic stratospheric ozone variations, pt.2. Cheng, D.J., et al. [1996,eng] 50-4349
- Spectroscopy of stratospheric trace gases at the South Pole. De Zafra, R.L., et al. [1994,eng] 50-4240
- Sputtering of ices in the outer solar system. Johnson, R.E., [1996,eng] 50-5296
- Statistical seasonal analysis of winter decreases in ozone at Macquarie Island. Lehmann, P., [1994,eng] 50-2521
- Stratigraphic detection of Greenland ice sheet chemical changes. Wolff, E.W., et al. [1995,eng] 50-584
- Stratospheric ozone layer above Spitsbergen in winter 1989. Neuber, R., et al. [1990,eng] 50-5975
- Stratospheric ozone research in Finland, focusing on atmospheric modelling. Rummukainen, M., et al. [1995,eng] 50-1778
- Stratospheric polar vortex and sub-vortex: fluid dynamics and midlatitude ozone loss. McIntyre, M.E., [1995,eng] 50-5229
- Stratospheric processes: observations and interpretation. Brune, W.H., et al. [1991,eng] 50-2785
- Stratospheric water vapor annual cycle. Mote, P.W., [1995,eng] 50-626
- Studies of the polar middle and lower atmosphere by an MST radar at Svalbard. Rötger, J., et al. [1995,eng] 50-4262
- Sudden changes in arctic atmospheric aerosol concentrations during summer and autumn. Biggs, E.K., et al. [1996,eng] 50-4319
- Sulfate deposition over the Arctic Ocean. Smith, L., [1995,eng] 50-643
- Sulfide oxidation products in the antarctic atmosphere. Davison, B., et al. [1996,eng] 50-5615
- Sulfur hexafluoride—a powerful new atmospheric tracer. Mais, M., et al. [1996,eng] 50-5608
- Surface ozone at high latitudes. Theodorsen, A., et al. [1996,eng] 50-4871
- Surface spectrometry of arctic seasonal atmospheric ozone variations. Pommeroy, J.P., et al. [1988,eng] 50-4636
- Toba eruption sulfates recorded in GISP2 ice core. Zielinski, G.A., et al. [1996,eng] 50-5288
- Total hydrogen budget in the arctic winter stratosphere. Engel, A., et al. [1996,eng] 50-5767
- Total ozone concentrations during the antarctic spring anomaly of 1989. Brezgin, N.I., et al. [1992,rus] 50-135
- Total ozone during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990,eng] 50-5974
- Total ozone trends in the Southern Hemisphere: an update. Kane, R.P., [1993,eng] 50-563
- Transport of chemical species from the northern polar vortex. Norton, W.A., et al. [1995,eng] 50-5917
- Tropospheric chemistry of greenhouse gases in Finnish conditions. Laurila, T., et al. [1994,eng] 50-3191
- Ultraviolet aerosol presence in the arctic atmospheric boundary layer. Wiedensohler, A., et al. [1996,eng] 50-4316
- Ultraviolet sunlight reaching the Earth's surface. Frederick, J.E., [1993,eng] 50-1326
- Upper Atmosphere Research Satellite (UARS) Microwave Limb Sounder (MLS) experiment. Waters, J., et al. [1992,eng] 50-3561
- Uptake of methanesulfonate and sulfate in ice. Whung, P.Y., et al. [1994,eng] 50-1895
- UV radiation effects on aquatic organisms. Holm-Hansen, O., et al. [1993,eng] 50-1325
- Variation of atmospheric ozone and NO₂ at Zhongshan Station, antarctic spring. Wang, Y.J., [1995,chi] 50-1230
- Variations in atmospheric methane. Brook, E.J., et al. [1996,eng] 50-6196
- Volcanic ash variations in the antarctic stratosphere. Anderson, J., et al. [1996,eng] 50-5613
- Volcanic stratospheric loading derived from Greenland ice core measurements. Zielinski, G.A., [1995,eng] 50-1331
- Water vapor saturation at low altitudes around Mars aphelion: a key to Mars climate? Clancy, R.T., et al. [1996,eng] 50-5831
- Yearly cycle of lower tropospheric ozone at the Arctic Circle. Rummukainen, M., et al. [1996,eng] 50-5614
- Zonal and meridional components of atmospheric heat exchange in the northern European basin. Martem'ianova, E.S., [1992,rus] 50-1273

Atmospheric condensation

See (also): Condensation

Atmospheric density

- Airborne measurements of stratospheric constituents over the Arctic in the winter of 1989. Mankin, W.G., et al. [1990,eng] 50-6006
- Arctic ozone depletion observed by UARS MLS during the 1994-95 winter. Manney, G.L., et al. [1996,eng] 50-3603

Atmospheric density

- Arctic ozone hole—a myth or a possibility. Singh, O.N., et al. [1995,eng] 50-4529
- Arctic stratospheric aerosol distribution. Brune, W.H., et al. [1990,eng] 50-6014
- ATLAS instrument characterization: accuracy of the AASE and AAOE nitrous oxide data sets. Loewenstein, M., et al. [1990,eng] 50-6008
- Atmospheric aerosol turbidity over polar regions. Radionov, V.F., et al. [1995,eng] 50-6326
- Atmospheric transport effects on arctic stratospheric chemistry. Yatteau, J.H., et al. [1990,eng] 50-6020
- Bursts of cloud condensation nuclei (CCN) by dissipating clouds at Palmer Station, Antarctica. Saxena, V.K., [1996,eng] 50-3602
- Calculations of ozone destruction during the 1988/89 arctic winter. McKenna, D.S., et al. [1990,eng] 50-6025
- Cloud attenuation of ultraviolet radiation in alpine regions. Blumthaler, M., et al. [1996,eng] 50-3610
- Concentration changes of MSA and major ions in arctic aerosols during polar sunrise. Suzuki, K., et al. [1995,eng] 50-3251
- Decadal evolution of the antarctic ozone hole. Jiang, Y., et al. [1996,eng] 50-5253
- Denitrification mechanisms in the polar stratospheres. Toon, O.B., et al. [1990,eng] 50-6001
- Denitrification of the polar winter stratosphere. Hamill, P., et al. [1990,eng] 50-6000
- Evidence for arctic ozone depletion in late February and early March 1994. Manney, G.L., et al. [1995,eng] 50-4540
- Fluxes of momentum and heat measured at Sevilleita, New Mexico. Hill, R.J., et al. [1996,eng] 50-3850
- Heterogeneous conversion of COF₂ to HF in polar stratospheric clouds. Wofsy, S.C., et al. [1990,eng] 50-6004
- In situ measurements of BrO in the arctic stratosphere. Toohy, D.W., et al. [1990,eng] 50-6015
- Light scattering effects on cloud thickness photometry. Zege, E.P., et al. [1994,eng] 50-2710
- Loss of ozone in the arctic vortex for the winter of 1989. Salawitch, R.J., et al. [1990,eng] 50-6027
- Measurements of total reactive nitrogen during the Airborne Arctic Stratospheric Expedition. Kawa, S.R., et al. [1990,eng] 50-6009
- Meteor-3/TOMS observations of the 1994 ozone hole. Herman, J.R., et al. [1995,eng] 50-3092
- Model calculations of ozone depletion in the arctic polar vortex for 1991/92 to 1994/95. Chipperfield, M.P., et al. [1996,eng] 50-3551
- N₂O as a dynamical tracer in the arctic vortex. Loewenstein, M., et al. [1990,eng] 50-6007
- Near UV polar stratospheric absorption measurements. Wahner, A., et al. [1990,eng] 50-6012
- Observational studies of the role of polar regions in mid-latitude ozone loss. Jones, R.L., et al. [1995,eng] 50-3094
- Photometry of Mt. Pinatubo aerosols at Spitsbergen. Beyerle, G., et al. [1995,eng] 50-1183
- Polar Ozone and Aerosol Measurement instrument. Glaccum, W., et al. [1996,eng] 50-5765
- Polar stratospheric cloud event of January 24: part 2, photochemistry. Jones, R.L., et al. [1990,eng] 50-6022
- Polar stratospheric cloud influence on arctic atmospheric chemistry. Jones, R.L., et al. [1990,eng] 50-6023
- Polar stratospheric radiation absorption measurements, pt.2. Schiller, C., et al. [1990,eng] 50-6013
- Polar stratospheric radiation absorption measurements, pt.3. Wahner, A., et al. [1990,eng] 50-6016
- Polar stratospheric radiation absorption measurements, pt.3. Wahner, A., et al. [1990,eng] 50-6016
- Preliminary results from POAM II: stratospheric ozone at high northern latitudes. Randall, C.E., et al. [1995,eng] 50-1213
- Radiometry of cirrus cloud optical depths and ice crystal sizes. Ou, S.C., et al. [1995,eng] 50-3258
- Reconstruction of O₃ and N₂O fields from ER-2, DC-8, and balloon observations. Lait, L.R., et al. [1990,eng] 50-6017
- Redistribution of reactive odd nitrogen in the lower arctic stratosphere. Hübler, G., et al. [1990,eng] 50-6002
- Results of the millimeter-wave instrument operated at Sevilleita, New Mexico. Otto, W.D., et al. [1996,eng] 50-5666
- Rocket-borne spectrometry of arctic stratospheric chemistry. Schlager, H., et al. [1990,eng] 50-5998
- SAGE II observations of polar stratospheric clouds near 50°N January 31-February 2, 1989. Pitts, M.C., et al. [1990,eng] 50-5994
- SAM II aerosol measurements during the 1989 AASE. Osborn, M.T., et al. [1990,eng] 50-5992
- SAM II and lidar aerosol profile comparisons during AASE. Osborn, M.T., et al. [1990,eng] 50-5993
- Simulation of polar stratospheric aerosols. Kaye, J.A., et al. [1990,eng] 50-6019
- Sounding of arctic polar stratospheric clouds. 1990. Hofmann, D.J., et al. [1990,eng] 50-4731
- Spectroscopy of antarctic stratospheric ozone variations, pt.2. Cheng, D.J., et al. [1996,eng] 50-4349
- Steep latitudinal gradient of solar ultraviolet-B radiation in the arctic-alpine life zone. Caldwell, M.M., et al. [1980,eng] 50-1410
- Stratospheric constituent trends from ER-2 profile data. Schoeberl, M.R., et al. [1990,eng] 50-6005
- Volcanic perturbation of the atmosphere in both polar regions: 1991-1994. Herber, A., et al. [1996,eng] 50-3444
- Zonal asymmetries in simulation of arctic stratospheric ozone. Isaksen, I.S.A., et al. [1990,eng] 50-6026

Atmospheric disturbances

Atmospheric disturbances

- Atmosphere-ocean interactions in the marginal ice zones of the Nordic seas. Guest, P.S., et al. [1995,eng] 50-1161
- Case analysis of antarctic strong cyclone process. Luo, Y.J., et al. [1989,chi] 50-6770
- Climate of the Qinghai-Xizang Plateau. Dai, J.X., ed. [1990,chi] 50-2173
- Climate of Xinjiang. Li, J.F., ed. [1991,chi] 50-2174
- Conditions for the propagation of short-wave radio waves during ionospheric disturbances. Lukashkin, V.M., [1991,rus] 50-2263
- Doppler radar observation of vortex-type snowstorm in Hokkaido. Shirooka, R., et al. [1994,eng] 50-6041
- ERS-1 SAR wind vector data from the Norwegian continental shelf. Wackerman, C.C., et al. [1994,eng] 50-1511
- Hydrometeorology in Antarctica in 1985. Savitskii, G.B., [1992,rus] 50-145
- Infrasonic signatures of a polar low in the Norwegian and Barents Sea on 23-27 March 1992. Ørbæk, J.B., et al. [1995,eng] 50-2026
- Long-term variability of the atmospheric circulation over Spitsbergen. Niedzwiedz, T., [1993,eng] 50-2182
- Microwave radiometry for monitoring the diverse cloudiness regimes on Earth: a review. Katsaros, K.B., [1992,eng] 50-227
- Numerical case study of a polar low in the Labrador Sea. Mailhot, J., et al. [1996,eng] 50-5869
- Numerical simulation of polar lows. Grønås, S., et al. [1995,eng] 50-2525
- Origin and structure of a numerically simulated polar low over Hudson Bay. Albright, M.D., et al. [1995,eng] 50-2526
- Polar lows in the Labrador Sea—a case study. Moore, G.W.K., et al. [1996,eng] 50-3821
- Polar lows. Rasmussen, E.A., [1996,eng] 50-4997
- Preliminary analysis of the cyclone activity over the Antarctic Peninsula in summer. Wang, D.C., et al. [1989,chi] 50-6769
- Results of the studies of natural deformations of sea ice fields. Smirnov, V.N., et al. [1990,eng] 50-96
- Study on some kinds of weather systems over and around the Qinghai-Xizang (Tibet) Plateau. Luo, S.W., et al. [1992,chi] 50-2178
- Study on some problems of cold waves in Xinjiang. Xu, J.Q., et al. [1985,chi] 50-2175
- Supercell simulations with simple ice parameterization. Tartaglione, N., et al. [1996,eng] 50-3709
- Thermospheric neutral winds at Watson Lake, Yukon Territory. Niciejewski, R.J., et al. [1996,eng] 50-6683
- Wintertime polar low over the eastern Weddell Sea. Heinemann, G., [1996,eng] 50-3708
- Atmospheric electricity**
- Adverse telluric effects on northern pipelines. Seager, W.H., [1991,eng] 50-1761
- Atmospheric electricity and charge transfer from temperature gradients in ice. Latham, J., [1967,eng] 50-5786
- Doppler spectroscopy of antarctic wind velocities. Nakajima, H., et al. [1995,eng] 50-3811
- Electrodynamics of the upper atmosphere and radio aurora in the northern polar cap. Kustov, A.V., et al. [1994,eng] 50-1964
- Electrolytical processes in dirty planetary ices. Drobyshevskii, E.M., et al. [1995,eng] 50-655
- On the formation of electron depletions at the summer polar mesopause. Klostermeyer, J., [1996,eng] 50-3600
- Periodic auroral events at the high-latitude convection reversal in the 16 MLT region. Sandholt, P.E., et al. [1990,eng] 50-4729
- Polar cap aurorae tell the time. Egeland, A., et al. [1995,eng] 50-1151
- Polar cap contraction associated with the leading edge of a magnetic cloud. Knipp, D.J., et al. [1996,eng] 50-3071
- Relationship of telluric currents to the corrosion of warm arctic pipelines. Sackinger, W.M., [1991,eng] 50-1725
- Thermospheric neutral winds at Watson Lake, Yukon Territory. Niciejewski, R.J., et al. [1996,eng] 50-6683
- Thunderstorm electrification. Saunders, C.P.R., [1995,eng] 50-4075
- Atmospheric humidity**
- See [also]: Humidity
- Atmospheric physics**
- ALOMAR—a new facility for middle atmosphere research at arctic latitudes. Thrane, E.V., et al. [1995,eng] 50-4261
- AMANDA: Antarctic Muon And Neutrino Detector Array. Barwick, S.W., et al. [1994,eng] 50-4694
- Appearance of F2 and Es modes during oblique-incidence sounding in the high latitude ionosphere. Egorova, L.V., et al. [1991,rus] 50-2270
- Atmospheric transparency and the stress of direct solar radiation in the Arctic and Antarctic. Wójcik, G., [1989,pol] 50-2902
- Conditions for the propagation of short-wave radio waves during ionospheric disturbances. Lukashkin, V.M., [1991,rus] 50-2263
- Cosmoglaciology: evolution of ice in interstellar space and the early solar system. Kouchi, A., et al. [1995,eng] 50-1030
- Determining the resolving ability of a method of reestablishing ionospheric currents. Kotikov, A.L., et al. [1991,rus] 50-1635
- Diagnostics of the polar ionosphere using oblique and reverse-oblique sounding. Vovk, V.I.A., [1991,rus] 50-2264
- Doppler spectroscopy of antarctic wind velocities. Nakajima, H., et al. [1995,eng] 50-3811

- Estimating the energy contribution of precipitating electrons to total ozone. Osechkin, V.V., [1994,rus] 50-4105
- Evaluation of ionospheric inhomogeneities using reverse-oblique sounding. Vovk, V.I.A., [1991,rus] 50-2265
- Feasibility study of an ionospheric database. Checha, V.A., [1991,rus] 50-1640
- First data and future prospects for AMANDA, the antarctic muon and neutrino detector. AMANDA Collaboration, [1994,eng] 50-5215
- Forecasting of maximum observed frequencies on high latitude short-wave radio lines. Egorova, L.V., et al. [1991,rus] 50-2268
- Forecasting the impacts of strong wintertime post-cold front winds in the northern plains. Kapela, A.F., et al. [1995,eng] 50-350
- Highest usable frequencies on the Bellingshausen-Molodetzynaya path in winter. Besprozvannia, A.S., et al. [1991,rus] 50-2272
- Japanese antarctic activities for 1995-1996. Tokyo. National Institute of Polar Research, [1996,eng] 50-2608
- Links between the lowest observed frequencies and errors in their forecasting at high latitudes. Ignatov, V.S., et al. [1991,rus] 50-2266
- Martian atmospheric carbon 14 as indicator of atmosphere-regolith gas exchange. Jakosky, B.M., et al. [1996,eng] 50-3009
- Mass dependence of energy loss in collisions of icy spheres: an experimental study. Dilley, J., et al. [1996,eng] 50-5196
- Model of wintertime stratospheric circulation. Eluszkiewicz, J., et al. [1995,eng] 50-1330
- Numerical simulation of polar lows. Grønås, S., et al. [1995,eng] 50-2525
- Objective determination of the polar vortex using Ertel's potential vorticity. Nash, E.R., et al. [1996,eng] 50-5452
- Organization of regional forecasting services using oblique sounding of the ionosphere. Khodzha-Akhmedov, Ch.L., [1991,rus] 50-2262
- Periodic auroral events at the high-latitude convection reversal in the 16 MLT region. Sandholt, P.E., et al. [1990,eng] 50-4729
- Polar cap aurorae tell the time. Egeland, A., et al. [1995,eng] 50-1151
- Polar vortex edge definition from stratospheric lidar data. Dameris, M., et al. [1995,eng] 50-346
- POST: Polar Stratospheric Telescope. Bely, P.Y., et al. [1995,eng] 50-2527
- Potential character of the distribution of basic physical properties of the polar ionosphere. Shirochikov, A.V., [1991,rus] 50-1637
- Predicting the maximum available frequencies using a numerical model of the high latitude ionosphere. Vovk, V.I.A., et al. [1991,rus] 50-2267
- Processes in the polar cap and magnetosphere in the presence of northern permafrost. Troshichev, O.A., [1991,rus] 50-1634
- Seasonal nitrogen cycles on Pluto. Hansen, C.J., et al. [1996,eng] 50-4347
- Snowfall generated by surface topographic effects upon wind direction. Wesley, D.A., et al. [1995,eng] 50-1079
- Space-time distribution of electron density in the maximum of the F2 layer at high latitudes. Besprozvannia, A.S., [1991,rus] 50-1638
- Spectral deviations of HF signals in antarctic radio lines. Khodzha-Akhmedov, Ch.L., et al. [1991,rus] 50-2271
- Sputtering of water ice surfaces and the production of extended neutral atmospheres. Shi, M., et al. [1995,eng] 50-2774
- State of SO₂ on Io's surface. Kerton, C.R., et al. [1996,eng] 50-4257
- Studies of the polar middle and lower atmosphere by an MST radar on Svalbard. Röttger, J., et al. [1995,eng] 50-4262
- Studying the probability of the transmission of decimeter radio waves over radio lines. Lukashkin, V.M., et al. [1991,rus] 50-2269
- United States Antarctic Program. Roberts, C.A., et al. [1994,eng] 50-105
- Atmospheric pollution**
- See [also]: Air pollution
- Atmospheric pressure**
- Altimetry of North Atlantic subpolar current variations. White, M.A., et al. [1995,eng] 50-2778
- Antarctic automatic weather station data for the calendar year 1994. Keller, L.M., et al. [1996,eng] 50-5806
- Antarctic circumpolar wave in surface pressure, wind, temperature and sea-ice extent. White, W.B., et al. [1996,eng] 50-4213
- Atmospheric surface pressure over the interior of Antarctica. Radok, U., et al. [1996,eng] 50-5678
- Case analysis of antarctic strong cyclone process. Luo, Y.J., et al. [1989,chi] 50-6770
- Catastrophic storm surges in the southern part of the Laptev Sea. Ashik, I.M., et al. [1995,eng] 50-2068
- Climate of the Qinghai-Xizang Plateau. Dai, J.X., ed. [1990,chi] 50-2173
- Climatic atlas of Labrador Sea seasonal ice concentration. Wang, J., et al. [1991,eng] 50-5259
- CO₂ flux through a Wyoming seasonal snowpack: diffusional and pressure pumping effects. Massman, W., et al. [1995,eng] 50-2400
- Correlation between atmospheric pressure anomalies and snowpack accumulation. McCabe, G.J., Jr., et al. [1995,eng] 50-1551

- Cycling around the South Pole. Yuan, X.J., et al. [1996,eng] 50-4211
- Dynamics of the Antarctic Circumpolar Current. Ivchenko, V.O., et al. [1996,eng] 50-5157
- Effect of ice and atmospheric pressure on insulator flashover. Shu, L.C., et al. [1996,eng] 50-5388
- Flow patterns conducive to Wyoming mountain heavy snow. Darrow, M.A., [1995,eng] 50-6685
- Forecasting the impacts of strong wintertime post-cold front winds in the northern plains. Kapela, A.F., et al. [1995,eng] 50-350
- Icelandic Low. Hordon, R.M., [1996,eng] 50-4992
- Infrasonic signatures of a polar low in the Norwegian and Barents Sea on 23-27 March 1992. Ørbæk, J.B., et al. [1995,eng] 50-2026
- Interannual variability of sea-level pressure, sea-ice and runoff over the Arctic. Power, S.B., et al. [1991,eng] 50-5258
- Katabatic winds over an East Antarctic cirque. Jonsson, S., [1995,eng] 50-1338
- Labrador Sea atmospheric circulation/sea-ice anomalies. Newell, J.P., [1996,eng] 50-6227
- Meteorological observations at Showa Station by JARE-33 in 1992. Matsuhara, K., et al. [1995,jpn] 50-4554
- Numerical model simulation of a summer reversal of the Beaufort gyre. Preller, R.H., et al. [1989,eng] 50-4706
- Numerical simulation of polar lows. Grønås, S., et al. [1995,eng] 50-2525
- Observational study of the katabatic wind confluence zone near Siple Coast, West Antarctica. Bromwich, D.H., et al. [1996,eng] 50-4157
- On changes of air pressure during an ice age. Loewe, F., [1973,ger] 50-4617
- Origin and structure of a numerically simulated polar low over Hudson Bay. Albright, M.D., et al. [1995,eng] 50-2526
- Potential food applications of high-pressure effects on ice-water transitions. Kalichevsky, M.T., et al. [1995,eng] 50-1955
- Preliminary analysis of the cyclone activity over the Antarctic Peninsula in summer. Wang, D.C., et al. [1989,chi] 50-6769
- Pressure cutoff effects on polar stratospheric chemistry. Cerniglia, M.C., et al. [1995,eng] 50-588
- Seasonal nitrogen cycles on Pluto. Hansen, C.J., et al. [1996,eng] 50-4347
- Study of the surface circulation to the north of Bransfield Strait, Antarctica. de Souza, R.B., [1992,spa] 50-6663
- Study on some kinds of weather systems over and around the Qinghai-Xizang (Tibet) Plateau. Luo, S.W., et al. [1992,chi] 50-2178
- Synoptic approach to forecasting lake-effect snowfall. Ellis, A.W., et al. [1996,eng] 50-6062
- Total ozone concentrations during the antarctic spring anomaly of 1989. Brezgin, N.I., et al. [1992,rus] 50-135
- Ventilation experiments in a seasonal snow cover. Albert, M.R., et al. [1995,eng] 50-2397
- Verification and effectiveness of a method for long range meteorological forecasting in Antarctica. Rabstevich, S.V., [1990,rus] 50-330
- Weather in the Himalaya Mountains, March through May. Qian, Z.J., [1982,chi] 50-6609
- Wind forcing of marine primary production in the northern atmospheric low-pressure belt. Sakshaug, E., et al. [1995,eng] 50-4130
- Wintertime polar low over the eastern Weddell Sea. Heinemann, G., [1996,eng] 50-3708
- Attenuation**
- Acoustic response to variations of water and ice characteristics. Gavrilov, A.N., et al. [1995,eng] 50-5736
- Acoustics probe sea-ice mechanics. Rajan, S.D., [1996,eng] 50-6675
- Arctic ozone depletion observed by UARS MLS during the 1994-95 winter. Manney, G.L., et al. [1996,eng] 50-3603
- Attenuation of microwaves by spherical hail. Battan, L.J., et al. [1986,eng] 50-4639
- Background stratospheric aerosol and polar stratospheric cloud reference models. McCormick, M.P., et al. [1996,eng] 50-6712
- Chlorophyll fluorescence in the Laptev Sea. Anoshkin, A.F., et al. [1995,eng] 50-2083
- Cloud attenuation of ultraviolet radiation in alpine regions. Blumthaler, M., et al. [1996,eng] 50-3610
- Greenland '90: a first step toward using the polar ice cap as a Cherenkov detector. Barwick, S.W., et al. [1992,eng] 50-4263
- Ice crystal optical properties of cirrus clouds. Gayet, J.F., et al. [1996,eng] 50-3684
- Ice plate absorption of infrared radiation. Popov, A.A., et al. [1994,eng] 50-1284
- Incorporating airborne data into the spatial model used to estimate snow water equivalent. Carroll, S.S., et al. [1993,eng] 50-5146
- Interference fringes from Bering Sea sonar images. Huggett, Q.J., et al. [1992,eng] 50-4250
- Measurement of seismo-acoustic ocean-bottom properties in the high Arctic. Dosso, S.E., et al. [1995,eng] 50-1837
- Polarimetric radar at attenuated wavelengths as a hydrological sensor. Sauvageot, H., [1996,eng] 50-5166
- Radiative properties of cirrus clouds derived from surface interferometric measurements. Beck, G.H., et al. [1996,eng] 50-6569
- Radio wave scattering from melting snow particles. Zhang, W., et al. [1996,eng] 50-6622

Aufeis

- Reduction of weather effects in the calculation for sea-ice concentration with the DMSP SSM/I. Cavalieri, D.J., et al. [1995,eng] 50-1867
- SAGE II observations of polar stratospheric clouds near 50°N January 31-February 2, 1989. Pitts, M.C., et al. [1990,eng] 50-5994
- SAM II aerosol measurements during the 1989 AASE. Osborn, M.T., et al. [1990,eng] 50-5992
- SAM II and lidar aerosol profile comparisons during AASE. Osborn, M.T., et al. [1990,eng] 50-5993
- Seasonal radar backscatter variation from boreal forests. Pulliainen, J.T., et al. [1996,eng] 50-4765
- Smart skis and other adaptive structures. Ashley, S., [1995,eng] 50-4618
- Sound reflection from ice cover. Kudriashov, V.M., [1996,eng] 50-4627
- Spectra of nitrogen component of ices in cosmic dust. Whitet, D.C.B., et al. [1996,eng] 50-6210
- Submillimeter wave attenuation in falling snow. Suzuki, M., et al. [1979,jpn] 50-3940
- Surface ice flow and anisotropic internal radar echoes in Queen Maud Land ice sheet. Maeno, H., et al. [1995,eng] 50-2577
- Waveform model for surface and volume scattering from ice and snow. Newkirk, M.H., et al. [1996,eng] 50-3886

See [also]: Atmospheric attenuation

Aufeis

See [also]: Naleds

Aungers

- Instruments for coring, structure and composition analysis and monitoring sea ice. Zagorodnov, V.S., et al. [1995,eng] 50-6317

Australia

- Paleomagnetism of a glacial sequence, South Australia. Schmidt, P.W., et al. [1995,eng] 50-411
- Tests for persistent effects of cloud seeding in a recent Australian experiment. Bigg, E.K., [1995,eng] 50-1249
- Wintertime precipitation enhancement in the Great Dividing Range of Australia. Carter, E.J., [1994,eng] 50-686

Australia—Alps

- Climate change and snow-cover duration in the Australian Alps. Whetton, P.H., et al. [1996,eng] 50-4751

Australia—Tasmania

- Alpine lichens in SW Tasmania. Kantvilas, G., [1995,eng] 50-3777
- Ecology and conservation management of cool temperate rain-forest in Tasmania. Brown, M.J., et al. [1996,eng] 50-4069

Austria

- Avalanche report 1992/93. Documentation and experts-contributions. Luzian, R., et al. [1995,ger] 50-4167
- Climatological interpretation of a firn pollen profile. Ambach, W., et al. [1967,ger] 50-5746
- Glacial overdeepened valleys in the Austrian Alps. Van Husen, D., [1990,ger] 50-1790
- Measurements on avalanche dynamics: a new installation. Rammer, L., [1995,eng] 50-4674
- Permafrost, gelification and fluvial sediment transfer in the Austrian Alps. Veit, H., et al. [1993,eng] 50-1676
- Precipitation, snow conditions and air temperature in Austria in the period 1981-1990. [1994,ger] 50-4266

Austria—Alps

- Alpine tree line soil erosion derived from bedrock geomorphological map analysis. Stocker, E., [1996,ger] 50-6678
- Asymmetric diurnal temperature change in the alpine region. Weber, R.O., et al. [1994,eng] 50-4790
- Beetle microhabitat distribution in a glacier ablation zone. Gerken, B.A., [1995,eng] 50-2812
- Dating of Holocene solifluction in the Austrian Alps. Veit, H., [1993,eng] 50-826
- Fluvial dynamics in the periglacial belt of the central Austrian Alps. Höfner, T., [1995,eng] 50-2751
- Fluvial sediment transfer in the Central Alps. Höfner, T., [1993,eng] 50-3335
- Lichenometric dating of alpine Little Ice Age moraines. Winkel, S., et al. [1995,ger] 50-3396

Austria—Sonnblick

- Glacier mass balance investigations in Sonnblick region, Austria. Böhm, R., et al. [1991,eng] 50-3519

Automatic weather stations

See [also]: Weather stations

Automation

See [also]: Computer applications

Automobiles

See [also]: Motor vehicles

Avalanche deposits

- Avalanche accumulation cones as subjects of paleogeological studies. Vozovik, I.U., et al. [1972,rus] 50-546
- Avalanche activity during major avalanche events, a case study for hydroelectric reservoirs. Schaefer, M., [1995,eng] 50-4660
- Avalanche frequency at Roger's Pass, British Columbia, Canada. Smith, M.J., et al. [1995,eng] 50-4681
- Calculation methods for avalanche run-out distance for the Austrian Alps. Lied, K., et al. [1995,eng] 50-4649
- Catastrophic mass movements in the mountains around the Qinghai-Xizang Plateau. Fort, M., et al. [1995,eng] 50-4835
- Dry-flowing avalanche run-up and run-out. McClung, D.M., et al. [1995,eng] 50-456
- Effects of avalanche snow redistribution on summer streamflow variations. De Scally, F.A., [1996,eng] 50-4333
- Elaboration of a cadastre of avalanche paths in the Catalan Pyrenees. Mari, G., et al. [1995,eng] 50-4655

- Eruption-triggered flood from a glacier-clad volcano in Columbia. Thouret, J.C., et al. [1995,eng] 50-4830
- International seminar on avalanche safety, Chamonix, France, 1995. Sivardière, F., ed. [1995,fre] 50-4640
- Late Holocene snow avalanche activity in southern Norway. McCarroll, D., et al. [1995,eng] 50-3336
- Lichenometric analysis of the Kärkerieppe slush-avalanche fan, Kärkavagge, Sweden. Bull, W.B., et al. [1995,eng] 50-4191
- Model of powder snow avalanches. Gauer, P., [1995,eng] 50-4648
- Modeling the spatial distribution of wind-transported snow in the ELSA system. Mases, M., et al. [1995,fre] 50-4647
- Paleoclimatic implications of Norwegian postglacial avalanches. Blikra, L.H., et al. [1993,eng] 50-835
- Report of avalanche accident at Pangka in 1995, Khumbu region, Nepal. Yamada, T., et al. [1996,jpn] 50-4928
- Slope erosion processes in the Alps. Becht, M., [1995,eng] 50-4829
- Slush stream phenomena—process and geomorphic impact. Barisch, D., et al. [1993,eng] 50-1674
- Snowmelt-induced earth and rock flows. Watanabe, N., et al. [1992,jpn] 50-3136
- Steepland geomorphology. Slaymaker, O., ed. [1995,eng] 50-4827

Avalanche dynamics

See [also]: Avalanche mechanics

Avalanche engineering

- Alpine snow fences for avalanche and rockslide control structures. Österreichisch-Alpine Montangesellschaft (Austrian Alpine Mining Company), [1962,ger] 50-5758
- Anchoring of avalanche snow nets by exploded piles. Bouvet, P., et al. [1995,fre] 50-4679
- Avalanche book. Armstrong, B.R., et al. [1992,eng] 50-863
- Avalanche countermeasure operations in the Maekura district. Takahashi, Y., et al. [1992,jpn] 50-3132
- Current status and prospects of avalanche control. Nakamura, T., [1995,jpn] 50-609
- Full scale impact test of PC rock-shed with shock absorbing system. Sato, M., et al. [1995,eng] 50-2688
- Full scale test on impact resistance of PC girder. Sato, M., et al. [1995,eng] 50-2690
- Guidebook on debris flow control. Zhou, B.F., ed. et al. [1991,chi] 50-5008
- Guidelines for avalanche barriers in the starting zone. BUWAL, Bundesamt für Umwelt, Wald und Landschaft, (Federal Office for Environment, Forest and Landscape). WSL, Eidgenössische Forschungsanstalt für Wald, Schnee und Landschaft (Federal Research Laboratory for Forest, Snow and Landscape), [1990,ger] 50-236
- Measurements on avalanche dynamics: a new installation. Rammer, L., [1995,eng] 50-4674
- Modeling the flow of a powder snow avalanche over a retaining wall. Augé, A., et al. [1995,fre] 50-4676
- More words on snow countermeasures for National Highway 17 (Part 2). Abe, T., [1996,jpn] 50-6734
- More words on snow countermeasures for National Highway 17. Abe, T., [1996,jpn] 50-4939
- Shock absorption using reinforced concrete slab. Mikami, H., et al. [1995,eng] 50-2689
- Snow pressure measurements on snow net systems. Margreth, S., [1995,eng] 50-4677
- Study on avalanche preventive steel structures. Saito, S., et al. [1963,eng] 50-5795
- Two examples of expert knowledge based system for avalanche forecasting and protection. Buisson, L., et al. [1995,eng] 50-1055
- US/Japan snow avalanche joint research projects, 1992 and 1993. Nagaoka Institute of Snow and Ice Studies, [1995,jpn] 50-6591

See [also]: Snow fences

Avalanche erosion

- Alpine tree line soil erosion derived from bedrock geomorphological map analysis. Stocker, E., [1996,ger] 50-6678
- Avalanche frequency at Roger's Pass, British Columbia, Canada. Smith, M.J., et al. [1995,eng] 50-4681
- Case studies of geoprocesses and environmental change in mountains of northern Sweden. Rapp, A., [1995,eng] 50-4187
- Catastrophic mass movements in the mountains around the Qinghai-Xizang Plateau. Fort, M., et al. [1995,eng] 50-4835
- Eruption-triggered flood from a glacier-clad volcano in Columbia. Thouret, J.C., et al. [1995,eng] 50-4830
- Model of powder snow avalanches. Gauer, P., [1995,eng] 50-4648
- Modeling the spatial distribution of wind-transported snow in the ELSA system. Mases, M., et al. [1995,fre] 50-4647
- Slope erosion processes in the Alps. Becht, M., [1995,eng] 50-4829
- Slush stream phenomena—process and geomorphic impact. Barisch, D., et al. [1993,eng] 50-1674
- Snowmelt-induced earth and rock flows. Watanabe, N., et al. [1992,jpn] 50-3136
- Steepland geomorphology. Slaymaker, O., ed. [1995,eng] 50-4827

Avalanche forecasting

- Acoustic detection of avalanches at the Sionne-Anzère site, Valais, Switzerland. Christin, V., et al. [1995,fre] 50-4680
- Artificial intelligence and avalanches. Caliani, R., [1995,ita] 50-2594

Avalanche forecasting

- ASTRAL: the French program for research on avalanche forecasting by analogous days. Guyomarch, G., et al. [1995,ita] 50-2598
- Automated measurements of snow temperature profiles in the Cairngorm mountains, Scotland. Purves, R.S., et al. [1995,eng] 50-2795
- Avalanche activity during major avalanche events, a case study for hydroelectric reservoirs. Schaefer, M., [1995,eng] 50-4660
- Avalanche bulletin and computer aided communication: preliminary results. Bolognesi, R., et al. [1995,fre] 50-4656
- Avalanche climatology of the continental zone in the southern Rocky Mountains. Mock, C.J., [1995,eng] 50-969
- Avalanche frequency at Roger's Pass, British Columbia, Canada. Smith, M.J., et al. [1995,eng] 50-4681
- Avalanche hazard forecasting at the department level: the example of Isère. Villocrosse, J., [1995,fre] 50-4664
- Avalanche hazard mapping with satellite data and a digital elevation model. Gruber, U., et al. [1995,eng] 50-2345
- Avalanche mapping and related G.I.S. applications in the Catalan Pyrenees. Furdada, G., et al. [1995,eng] 50-1061
- Avalanche prediction for persistent snow slabs. Jamieson, J.B., [1995,eng] 50-3707
- Avalanches. Armstrong, R.L., [1996,eng] 50-4978
- Avalanches: foreseeable or unforeseeable. Lambert, R., [1995,fre] 50-4668
- Calculating the frequency of avalanche hazard situations. Kolesnikov, E.I., et al. [1991,rus] 50-8
- Calculation methods for avalanche run-out distance for the Austrian Alps. Lied, K., et al. [1995,eng] 50-4649
- Cold climate hydrometeorology. Upadhyay, D.S., [1995,eng] 50-5508
- Comparison of two avalanche forecasting models. Weiler, C., [1995,eng] 50-1060
- Control of avalanche risk in the Braulio Valley. Campana, M., et al. [1995,ita] 50-2600
- Council of Europe's Open Partial Agreement on Major Hazards. EUR-OPA. Tondre, F., [1995,fre] 50-4645
- Current status and prospects of avalanche control. Nakamura, T., [1995,jpn] 50-609
- Determining the mechanical resistance of snow by the Pandalp penetrometer. Daudon, D., et al. [1995,fre] 50-4683
- Directional hemispheric reflectance as an indicator of snow cover stability. Sergeant, C., et al. [1995,fre] 50-4685
- Effects of temperature on fracture of dry alpine snow. McClung, D.M., [1995,eng] 50-4688
- Elaboration of a cadastre of avalanche paths in the Catalan Pyrenees. Mari, G., et al. [1995,eng] 50-4655
- Forecasting avalanche flow during a snowfall using a weighted value method. Sezin, V.M., et al. [1991,rus] 50-13
- Forecasting avalanche risks in France—assessment and perspective. Pahaute, E., et al. [1995,fre] 50-4873
- Forecasting avalanches from freshly fallen, snowstorm and wet snow in the Anzobskiy Pass region. Kharitonov, G.G., et al. [1991,rus] 50-12
- Forecasting snowstorm avalanches along the Ust'-Kamenogorsk-Zyryanovsk highway. Kolesnikov, E.I., et al. [1991,rus] 50-10
- Guide to interpretation of Swiss avalanche bulletins. Meister, R., ed. [1993,fre] 50-5075
- Guidebook on debris flow control. Zhou, B.F., ed. et al. [1991,chi] 50-5008
- Impact of climate change on snow conditions in the French Alps. Martin, E., et al. [1995,fre] 50-4693
- Integrated system for artificial avalanche control. Gubler, H., [1995,eng] 50-4671
- International seminar on avalanche safety, Chamonix, France, 1995. Sivardière, F., ed. [1995,fre] 50-4640
- Landslide hazards along the highways of the Qinghai-Xizang Plateau. Wang, C.H., [1994,eng] 50-4784
- Local forecasting of avalanche hazard in La Plagne. Schneider, C., [1995,fre] 50-4657
- Local forecasting of avalanche hazards at Alpe d'Huez in the Grandes Rousses. Dautier, J.M., [1995,fre] 50-4661
- Long range forecasting of avalanche regimes and some ecological changes on Zailiyskiy Alatau. Kondrashov, I.V., et al. [1991,rus] 50-9
- Meeting of the Avalanche Commission, Autrans, France, 1994. International Commission for Alpine Rescue (French version: Commission Internationale pour le Sauvetage Alpin) (German version: Internationale Kommission für Alpinen Rettungswesen). Birchwil, Switzerland, [1995,ita] 50-2599
- MEPRA and the risk of accidental release of avalanches. Giraud, G., et al. [1995,fre] 50-4662
- Meteorological and snow conditions, avalanches and safety in Bulgarian mountains. Mikhnevski, N., [1995,eng] 50-4665
- Meteorological and snow cover information disseminated by Météo-France. Pahaute, E., [1995,fre] 50-2589
- Methods for studying snow slabs from new data. Duclos, A., et al. [1995,fre] 50-4684
- Modeling of powder snow avalanches: possibilities for use in regulatory zoning of natural hazards. Bouvet, P., et al. [1995,fre] 50-4652
- Modeling of snow reflectance in the visible and near infrared. Leroux, C., et al. [1995,fre] 50-4672
- Multilingual vocabulary—snow and avalanches. International Mountain Rescue Commission, [1991,eng] 50-5292
- New approaches to numerical mapping of avalanches. Borrel, G., [1995,fre] 50-4675
- Numerical avalanche hazard forecast for the next day. Durand, Y., et al. [1995,fre] 50-4666

Avalanche formation

- Numerical model of powder snow avalanche: theoretical analysis and application. Naaim, M., [1995,eng] 50-4644
- NXLOG avalanche model as applied at the Presena glacier ski lift. Cestari, P., [1995,ita] 50-2597
- NXLOG model—local avalanche forecasting in Switzerland: strategy and means. Bolognesi, R., et al., [1995,ita] 50-2596
- OASIS avalanche database. Gillet, M., [1995,fre] 50-2590
- Observation guidelines and recording standards for weather, snowpack and avalanches. Canadian Avalanche Association, Revelstoke, British Columbia, [1995,eng] 50-852
- Prediction of slushflow hazard—research project in Rana, Norway. Hestnes, E., et al., [1995,eng] 50-404
- Probabilistic evaluation of snow cover stability on mountain slopes. Chernous, P.A., [1995,eng] 50-4689
- Profession: cross country ski patrol. Ours, L., [1996,fre] 50-4870
- PROTEON—a model for local forecasting of blowing snow. Guyomarch, G., et al., [1995,fre] 50-4654
- Satellite imagery for avalanche forecasting and rescue. Granica, K., [1995,eng] 50-4168
- Seismic detection in classifying avalanches. Sabot, F., et al., [1995,fre] 50-4642
- Seismic detection of avalanches: concept and validation of a pre-operational system. Lepretre, B., et al., [1995,fre] 50-4650
- Skier triggered slab avalanche release—some practical implications. Schweizer, J., et al., [1995,eng] 50-4687
- Slushflow prediction in Rana, Norway. Hestnes, E., et al., [1993,nor] 50-402
- Slushflow prediction project in Rana, Norway. Hestnes, E., et al., [1995,eng] 50-4691
- Snow and avalanche. Annual report 1994-95. Colorado Avalanche Information Center, [1995,eng] 50-4308
- Snow hazard information system in Slovenia. Horvat, A., [1995,eng] 50-4653
- Snowslides in Alta area. Part 1. Shank, H.M., [1996,eng] 50-3240
- Software for snow data and avalanche forecasting. Dumas, J.L., et al., [1996,fre] 50-4964
- Spatial and time variability of avalanche predictors and accuracy of their estimation. Chernous, P.A., [1995,eng] 50-4658
- Stability criteria in avalanche hazard forecasting. Perla, R.I., [1969,eng] 50-4260
- Study on the avalanche hazard in the central Spanish Pyrenees (Aragon region). Sáez Alagón, M.T., et al., [1995,fre] 50-4682
- Swiss concept for forecasting the danger of avalanches. Ammann, W.J., [1995,fre] 50-4659
- Test of the snow cover numerical model Crocus in avalanche forecasting. Mingó, L., [1995,eng] 50-4646
- Tests of computer models for forecasting avalanches in Italy. Gaddo, M., [1995,ita] 50-2595
- Two examples of expert knowledge based system for avalanche forecasting and protection. Buisson, L., et al., [1995,eng] 50-1055
- US/Japan snow avalanche joint research projects, 1992 and 1993. Nagaoka Institute of Snow and Ice Studies, [1995,jpn] 50-6591
- Using Rutschblock testing to avoid avalanches. Abromeit, D., [1995,eng] 50-2863
- Validation of avalanche forecasting systems. Bolognesi, R., [1996,fre] 50-4869
- Verification of avalanche danger with respect to avalanche forecasting. Föhn, P.M.B., et al., [1995,fre] 50-4663
- Weather and climate of a high mountain pass in the Colorado Rockies. Judson, A., [1965,eng] 50-5751
- Weather and snowpack conditions essential to slushflow release and downslope propagation. Hestnes, E., et al., [1994,eng] 50-403
- Avalanche formation**
- Acoustic detection of avalanches at the Sionne-Anzère site, Valais, Switzerland. Chritin, V., et al., [1995,fre] 50-4680
- Avalanche accumulation cones as subjects of paleogeological studies. Vozovik, I.U.I., et al., [1972,rus] 50-546
- Avalanche book. Armstrong, B.R., et al., [1992,eng] 50-863
- Avalanche prediction for persistent snow slabs. Jamieson, J.B., [1995,eng] 50-3707
- Calculating the frequency of avalanche hazard situations. Kolesnikov, E.I., et al., [1991,rus] 50-8
- Effects of temperature on fracture of dry alpine snow. McClung, D.M., [1995,eng] 50-4688
- Field experiments on snow avalanche mechanics. Schweizer, J., et al., [1995,eng] 50-1056
- Forecasting avalanches from freshly fallen, snowstorm and wet snow in the Anzobeky Pass region. Kharitonov, G.G., et al., [1991,rus] 50-12
- Formation and movement of avalanches. Moskaliev, I.U.D., [1966,rus] 50-3833
- Guidelines for avalanche barriers in the starting zone. BUWAL. Bundesamt für Umwelt, Wald und Landschaft, (Federal Office for Environment, Forest and Landscape). WSL, Eidgenössische Forschungsanstalt für Wald, Schnee und Landschaft (Federal Research Laboratory for Forest, Snow and Landscape). [1990,ger] 50-236
- International seminar on avalanche safety, Chamonix, France, 1995. Sivardière, F., ed., [1995,fre] 50-4640
- Long range forecasting of avalanche regimes and some ecological changes on Zailiyskiy Alatau. Kondrashov, I.V., et al., [1991,rus] 50-9
- Methods for studying snow slabs from new data. Duclos, A., et al., [1995,fre] 50-4684

Avalanche tracks

- New approaches to numerical mapping of avalanches. Borrel, G., [1995,fre] 50-4675
- Powder snow avalanches and flow avalanches. Nohguchi, Y., [1995,jpn] 50-610
- Prediction of slushflow hazard—research project in Rana, Norway. Hestnes, E., et al., [1995,eng] 50-404
- Probabilistic evaluation of snow cover stability on mountain slopes. Chernous, P.A., [1995,eng] 50-4689
- Seismic detection of avalanches: concept and validation of a pre-operational system. Lepretre, B., et al., [1995,fre] 50-4650
- Slushflow prediction in Rana, Norway. Hestnes, E., et al., [1993,nor] 50-402
- Slushflow prediction project in Rana, Norway. Hestnes, E., et al., [1995,eng] 50-4691
- Snow gliding measurements in subalpine forests and on alpine pastures. Höller, P., [1995,eng] 50-4673
- Snowmelt-induced earth and rock flows. Watanabe, N., et al., [1992,jpn] 50-3136
- Snowslides in Alta area. Part 1. Shank, H.M., [1996,eng] 50-3240
- Stability criteria in avalanche hazard forecasting. Perla, R.I., [1969,eng] 50-4260
- Summer and autumn avalanches: a neglected hazard. Zanon, J.P., [1995,fre] 50-4669
- Terrain as a controlling factor for slush streams in Spitsbergen. Scherer, D., et al., [1994,eng] 50-1588
- Weather and snowpack conditions essential to slushflow release and downslope propagation. Hestnes, E., et al., [1994,eng] 50-403
- Wind slabs: new data. Duclos, A., [1995,fre] 50-2585
- Avalanche mechanics**
- Anchoring of avalanche snow nets by exploded piles. Bouvet, P., et al., [1995,fre] 50-4679
- Avalanche accumulation cones as subjects of paleogeological studies. Vozovik, I.U.I., et al., [1972,rus] 50-546
- Avalanche book. Armstrong, B.R., et al., [1992,eng] 50-863
- Avalanche countermeasure operations in the Maekura district. Takahashi, Y., et al., [1992,jpn] 50-3132
- Avalanche dynamics: introduction to the Lautaret Pass alpine experimental site. Ousset, F., et al., [1995,fre] 50-4678
- Avalanche modeling in concave and convex chutes. Greve, R., et al., [1993,eng] 50-1209
- Avalanche prevention and soil control in the Mount Krížná area. Midriak, R., [1976,cze] 50-5142
- Basic study on volcanic debris flows over snow slopes. Miura, A., et al., [1995,jpn] 50-6736
- Calculation methods for avalanche run-out distance for the Austrian Alps. Lied, K., et al., [1995,eng] 50-4649
- Comparison of two avalanche forecasting models. Weiler, C., [1995,eng] 50-1060
- Computer modeling of avalanche triggering by wind. Sivardière, F., et al., [1995,eng] 50-1064
- Current status and prospects of avalanche control. Nakamura, T., [1995,jpn] 50-609
- Dry-flowing avalanche run-up and run-out. McClung, D.M., et al., [1995,eng] 50-456
- Field experiments on snow avalanche mechanics. Schweizer, J., et al., [1995,eng] 50-1056
- Field measurements and model calibration in avalanche dynamics. Nettuno, L., [1995,eng] 50-1057
- Forecasting avalanche flow during a snowfall using a weighted value method. Sezin, V.M., et al., [1991,rus] 50-13
- Formation and movement of avalanches. Moskaliev, I.U.D., [1966,rus] 50-3833
- Imaging techniques for mapping the surface velocities of a dense snow avalanche. Granada, F., et al., [1995,fre] 50-4651
- International seminar on avalanche safety, Chamonix, France, 1995. Sivardière, F., ed., [1995,fre] 50-4640
- Large-scale landslide simulations: global deformation, velocities and basal friction. Campbell, C.S., et al., [1995,eng] 50-946
- Long range forecasting of avalanche regimes and some ecological changes on Zailiyskiy Alatau. Kondrashov, I.V., et al., [1991,rus] 50-9
- Measurements of powder snow avalanche—nature. Nishimura, K., et al., [1995,eng] 50-1058
- Measurements of powder snow avalanches—laboratory. Keller, S., [1995,eng] 50-1059
- Measurements on avalanche dynamics: a new installation. Rammer, L., [1995,eng] 50-4674
- Model of avalanche deceleration at a change to a more gradual slope. Bojo, C., et al., [1996,jpn] 50-6730
- Model of powder snow avalanches. Gauer, P., [1995,eng] 50-4648
- Modeling the flow of a powder snow avalanche over a retaining wall. Auge, A., et al., [1995,fre] 50-4676
- Multilingual vocabulary—snow and avalanches. International Mountain Rescue Commission, [1991,eng] 50-5292
- Numerical model of powder snow avalanche: theoretical analysis and application. Naaim, M., [1995,eng] 50-4644
- Powder snow avalanches and flow avalanches. Nohguchi, Y., [1995,jpn] 50-610
- Profiles of particle characteristics in blowing snow. Naaim, M., et al., [1995,eng] 50-1062
- Runup and overtopping of impulse waves on dams. Müller, D.R., [1995,ger] 50-858
- Simulation models of flow type and powder type avalanches examined by gravity currents. Fukushima, Y., et al., [1996,jpn] 50-4933
- Snow pressure measurements on snow net systems. Margreth, S., [1995,eng] 50-4677
- Stability criteria in avalanche hazard forecasting. Perla, R.I., [1969,eng] 50-4260
- Study on avalanche preventive steel structures. Saito, S., et al., [1963,eng] 50-5795
- Two examples of expert knowledge based system for avalanche forecasting and protection. Buisson, L., et al., [1995,eng] 50-1055
- Validation of avalanche forecasting systems. Bolognesi, R., [1996,fre] 50-4869
- Avalanche modeling**
- ASTRAL: the French program for research on avalanche forecasting by analogous days. Guyomarch, G., et al., [1995,ita] 50-2598
- Avalanche dynamics: introduction to the Lautaret Pass alpine experimental site. Ousset, F., et al., [1995,fre] 50-4678
- Avalanche hazard forecasting at the department level: the example of Isère. Villocrose, J., [1995,fre] 50-4664
- Avalanche modeling in concave and convex chutes. Greve, R., et al., [1993,eng] 50-1209
- Basic study on volcanic debris flows over snow slopes. Miura, A., et al., [1995,jpn] 50-6736
- Calculation methods for avalanche run-out distance for the Austrian Alps. Lied, K., et al., [1995,eng] 50-4649
- Comparison of two avalanche forecasting models. Weiler, C., [1995,eng] 50-1060
- Dry-flowing avalanche run-up and run-out. McClung, D.M., et al., [1995,eng] 50-456
- Field measurements and model calibration in avalanche dynamics. Nettuno, L., [1995,eng] 50-1057
- Forecasting avalanche risks in France—assessment and perspective. Pahaut, E., et al., [1995,fre] 50-4873
- Guidebook on debris flow control. Zhou, B.F., ed., et al., [1991,chi] 50-5008
- Imaging techniques for mapping the surface velocities of a dense snow avalanche. Granada, F., et al., [1995,fre] 50-4651
- Impact of climate change on snow conditions in the French Alps. Martin, E., et al., [1995,fre] 50-4693
- International seminar on avalanche safety, Chamonix, France, 1995. Sivardière, F., ed., [1995,fre] 50-4640
- Large-scale landslide simulations: global deformation, velocities and basal friction. Campbell, C.S., et al., [1995,eng] 50-946
- MEPRA and the risk of accidental release of avalanches. Giraud, G., et al., [1995,fre] 50-4662
- Methods for studying snow slabs from new data. Duclos, A., et al., [1995,fre] 50-4684
- Model of avalanche deceleration at a change to a more gradual slope. Bojo, C., et al., [1996,jpn] 50-6730
- Model of powder snow avalanches. Gauer, P., [1995,eng] 50-4648
- Modeling of powder snow avalanches: possibilities for use in regulatory zoning of natural hazards. Bouvet, P., et al., [1995,fre] 50-4652
- Modeling the destructive effect of an avalanche wind. Bozhinski, A.N., et al., [1995,rus] 50-3775
- Modeling the flow of a powder snow avalanche over a retaining wall. Auge, A., et al., [1995,fre] 50-4676
- Modeling the spatial distribution of wind-transported snow in the ELISA system. Mases, M., et al., [1995,fre] 50-4647
- Numerical avalanche hazard forecast for the next day. Durand, Y., et al., [1995,fre] 50-4666
- Numerical model of powder snow avalanche: theoretical analysis and application. Naaim, M., [1995,eng] 50-4644
- NXLOG avalanche model as applied at the Presena glacier ski lift. Cestari, P., [1995,ita] 50-2597
- NXLOG model—local avalanche forecasting in Switzerland: strategy and means. Bolognesi, R., et al., [1995,ita] 50-2596
- Probabilistic evaluation of snow cover stability on mountain slopes. Chernous, P.A., [1995,eng] 50-4689
- Runup and overtopping of impulse waves on dams. Müller, D.R., [1995,ger] 50-858
- Simulation models of flow type and powder type avalanches examined by gravity currents. Fukushima, Y., et al., [1996,jpn] 50-4933
- Tests of computer models for forecasting avalanches in Italy. Gaddo, M., [1995,ita] 50-2595
- Two examples of expert knowledge based system for avalanche forecasting and protection. Buisson, L., et al., [1995,eng] 50-1055
- Verification of avalanche danger with respect to avalanche forecasting. Föhn, P.M.B., et al., [1995,fre] 50-4663
- Avalanche protection**
- Avalanche prevention and soil control in the Mount Krížná area. Midriak, R., [1976,cze] 50-5142
- Mudflow-retaining structure. Bañatov, Zh.B., et al., [1992,rus] 50-1936
- Multilingual vocabulary—snow and avalanches. International Mountain Rescue Commission, [1991,eng] 50-5292
- Snow and avalanche. Annual report 1994-95. Colorado Avalanche Information Center, [1995,eng] 50-4308
- Winter operations: keeping crews safe. [1995,eng] 50-3291
- Avalanche tracks**
- Avalanche activity during major avalanche events, a case study for hydroelectric reservoirs. Schær, M., [1995,eng] 50-4660
- Avalanche damage at Bridal Veil, Utah. Griffith, R., [1996,eng] 50-4760
- Avalanche frequency at Roger's Pass, British Columbia, Canada. Smith, M.J., et al., [1995,eng] 50-4681

Avalanche triggering

- Avalanche hazard mapping with satellite data and a digital elevation model. Gruber, U., et al. [1995,eng] 50-2345
- Avalanche mapping and related G.I.S. applications in the Catalan Pyrenees. Furdada, G., et al. [1995,eng] 50-1061
- Avalanche report 1992/93. Documentation and experts-contributions. Luzian, R., et al. [1995,ger] 50-4167
- Avalanche report from Mt. Shasta. Bachman, D., [1996,eng] 50-4759
- Avalanches: foreseeable or unforeseeable. Lambert, R., [1995,fre] 50-4668
- Calculation methods for avalanche run-out distance for the Austrian Alps. Lied, K., et al. [1995,eng] 50-4649
- Colorado storm and avalanches of February 1995. McCarty, D., et al. [1995,eng] 50-1098
- Comparison of two avalanche forecasting models. Weiler, C., [1995,eng] 50-1060
- Dry-flowing avalanche run-up and run-out. McClung, D.M., et al. [1995,eng] 50-456
- Elaboration of a cadastre of avalanche paths in the Catalan Pyrenees. Marti, G., et al. [1995,eng] 50-4655
- International seminar on avalanche safety, Chamonix, France, 1995. Sivardière, F., ed. [1995,fre] 50-4640
- Large-scale landslide simulations: global deformation, velocities and basal friction. Campbell, C.S., et al. [1995,eng] 50-946
- Measurements of powder snow avalanches—laboratory. Keller, S., [1995,eng] 50-1059
- Model of avalanche deceleration at a change to a more gradual slope. Bojo, C., et al. [1996,jpn] 50-6730
- Model of powder snow avalanches. Gauer, P., [1995,eng] 50-4648
- Modeling the spatial distribution of wind-transported snow in the ELSA system. Masses, M., et al. [1995,fre] 50-4647
- Observation guidelines and recording standards for weather, snowpack and avalanches. Canadian Avalanche Association, Revelstoke, British Columbia, [1995,eng] 50-852
- Powder snow avalanches and flow avalanches. Nohguchi, Y., [1995,jpn] 50-610
- Report of avalanche accident at Pangka in 1995, Khumbu region, Nepal. Yamada, T., et al. [1996,jpn] 50-4928
- Satellite imagery for avalanche forecasting and rescue. Granica, K., [1995,eng] 50-4168
- Slush stream phenomena—process and geomorphic impact. Barusch, D., et al. [1993,eng] 50-1674
- Avalanche triggering**
- Acoustic detection of avalanches at the Sionne-Anzère site, Valais, Switzerland. Chritin, V., et al. [1995,fre] 50-4680
- Avalanche prediction for persistent snow slabs. Jamieson, J.B., [1995,eng] 50-3707
- Basic study on volcanic debris flows over snow slopes. Miura, A., et al. [1995,jpn] 50-6736
- Computer modeling of avalanche triggering by wind. Sivardière, F., et al. [1995,eng] 50-1064
- Effects of temperature on fracture of dry alpine snow. McClung, D.M., [1995,eng] 50-4688
- Eruption-triggered flood from a glacier-clad volcano in Columbia. Thoutet, J.C., et al. [1995,eng] 50-4830
- Field experiments on snow avalanche mechanics. Schweizer, J., et al. [1995,eng] 50-1056
- Integrated system for artificial avalanche control. Gubler, H., [1995,eng] 50-4671
- International seminar on avalanche safety, Chamonix, France, 1995. Sivardière, F., ed. [1995,fre] 50-4640
- MEPRA and the risk of accidental release of avalanches. Giraud, G., et al. [1995,fre] 50-4662
- Methods for studying snow slabs from new data. Ducloux, A., et al. [1995,fre] 50-4684
- Observation guidelines and recording standards for weather, snowpack and avalanches. Canadian Avalanche Association, Revelstoke, British Columbia, [1995,eng] 50-852
- Results of a survey on gas avalanche triggers (GAZEX). Rapin, F., et al. [1995,fre] 50-4670
- Skier triggered slab avalanche release—some practical implications. Schweizer, J., et al. [1995,eng] 50-4687
- Using Rutschblock testing to avoid avalanches. Abromeit, D., [1995,eng] 50-2863
- Avalanche wind**
- Measurements of powder snow avalanche—nature. Nishimura, K., et al. [1995,eng] 50-1058
- Modeling the destructive effect of an avalanche wind. Bozhinski, A.N., et al. [1995,rus] 50-3775
- Avalanches**
- 1996 avalanche cycle of intermountain West. Tremper, B., [1996,eng] 50-4761
- Artificial intelligence and avalanches. Calari, R., [1995,ita] 50-2594
- Avalanche accidents in France from 1971 to 1974. Sivardière, F., et al. [1995,fre] 50-4641
- Avalanche accidents this season. [1996,eng] 50-4762
- Avalanche Balloon System (ABS) for or against? Sivardière, F., et al. [1995,fre] 50-2586
- Avalanche casualties in France, Oct. 1994-Sep. 1995. Sivardière, F., [1995,fre] 50-2587
- Avalanche climatology of the continental zone in the southern Rocky Mountains. Mock, C.J., [1995,eng] 50-969
- Avalanche frequency at Roger's Pass, British Columbia, Canada. Smith, M.J., et al. [1995,eng] 50-4681
- Avalanche incidents during the winter of 1993-94. Oberschmid, C., et al. [1994,ita] 50-1563
- Avalanche report 1992/93. Documentation and experts-contributions. Luzian, R., et al. [1995,ger] 50-4167
- Avalanche rescue dogs. Gouzou, J.P., [1995,fre] 50-2591

- Avalanche survival chances. Burscher, M., [1994,eng] 50-3908
- Avalanche survival chances. Falk, M., et al. [1994,eng] 50-2531
- Avalanche warning flags: what do you think? Sivardière, F., [1995,fre] 50-2593
- Avalanches and their role in nourishment of the Inyl'chek Glacier. Ziabkin, V.V., [1972,rus] 50-553
- Avalanches. Armstrong, R.L., [1996,eng] 50-4978
- Calculating snow depth in avalanche catchments. Kanaev, L.A., et al. [1991,rus] 50-6
- Casualties due to snow and ice phenomena. Ikarashi, T., [1995,jpn] 50-605
- Colorado storm and avalanches of February 1995. McCarty, D., et al. [1995,eng] 50-1098
- Current status and prospects of avalanche control. Nakamura, T., [1995,jpn] 50-609
- Evolution of snow cover and avalanche activity in the Italian Alps during winter 1993-94. Lizzero, L., et al. [1994,ita] 50-1562
- Experimental investigations on the effectiveness of avalanche balloons. Tschirky, F., et al. [1995,eng] 50-4686
- Forest dynamics and disturbance in the temperate rainforests of the Americas. Veblen, T.T., et al. [1996,eng] 50-4065
- Forty years of disaster mitigation in Xinjiang. Zhu, L.R., ed. et al. [1993,chi] 50-4166
- Glaciers, snow and ice—dictionary of glaciology, snow and avalanche research in Switzerland. Ziehr, W., ed. [1993,ger] 50-3385
- Hydrologic bibliography of Switzerland for 1994. Sevruck, B., ed. et al. [1994,ger] 50-4596
- International seminar on avalanche safety, Chamonix, France, 1995. Sivardière, F., ed. [1995,fre] 50-4640
- Laws of distribution of the snow cover on the Greater Caucasus (Soviet Union). Gurtovaia, E.E., et al. [1965,eng] 50-3427
- Meeting of the Avalanche Commission, Autrans, France, 1994. International Commission for Alpine Rescue (French version: Commission Internationale pour le Sauvetage Alpin) (German version: Internationale Kommission für Alpen Rettungswesen), Birchwil, Switzerland, [1995,ita] 50-2599
- Meteorological and snow conditions, avalanches and safety in Bulgarian mountains. Mikhnevski, N., [1995,eng] 50-4665
- Mudflow-retaining structure. Bainatov, Zh.B., et al. [1992,rus] 50-1936
- OASIS avalanche database. Gillet, M., [1995,fre] 50-2590
- Primer for the avalanche dog leader. [1964,eng] 50-5752
- Radiometer for the detection of avalanche victims. Šval, M., [1995,eng] 50-4692
- Reestablishing periodic meteorological values at an avalanche station. Kharitonov, G.G., [1991,rus] 50-11
- Report of avalanche accident at Pangka in 1995, Khumbu region, Nepal. Yamada, T., et al. [1996,jpn] 50-4928
- Resistance to snow damage by trees on slopes. Bojo, C., et al. [1995,jpn] 50-990
- Satellite imagery for avalanche forecasting and rescue. Granica, K., [1995,eng] 50-4168
- Scientific Seminar of the Laboratory on Avalanches and Mudflows of Moscow State University. Bozhinski, A.N., [1972,rus] 50-550
- Seismic detection in classifying avalanches. Sabot, F., et al. [1995,fre] 50-4642
- Snow disasters and countermeasure against it. Ikarashi, T., [1995,jpn] 50-604
- Snow in the Chilean Andes and its natural hazards. Ugarte G., G., [1995,fre] 50-4690
- Snowslides in Alta area. Part 1. Shank, H.M., [1996,eng] 50-3240
- Summer and autumn avalanches: a neglected hazard. Zuanon, J.P., [1995,fre] 50-4669
- Survey of calving causing flood waves at the Grubengletscher. Haeblerli, W., [1975,ger] 50-3952
- Tests of computer models for forecasting avalanches in Italy. Gaddo, M., [1995,ita] 50-2595
- Westwide Avalanche Network. Total snow. Summary by region. Tremper, B., [1996,eng] 50-5928
- See [also]: Snow slides
- Backscattering**
- Analysis of lidar observations of polar stratospheric clouds. Toon, O.B., et al. [1990,eng] 50-5991
- Arctic polar stratospheric cloud observations by airborne lidar. McCormick, M.P., et al. [1990,eng] 50-5988
- Attenuation of microwaves by spherical hail. Battan, L.J., et al. [1986,eng] 50-4639
- Backscattering radar measurements of spherical ice cloud crystals. Prodi, F., et al. [1996,eng] 50-4502
- Backscattering through the melting layer of precipitation. Russchenberg, H.W.J., et al. [1996,eng] 50-2699
- Bistatic scattering of radiowaves by a melting layer of precipitation. Zhang, W., et al. [1996,eng] 50-6335
- C-band backscatter measurements of winter sea-ice in the Weddell Sea, Antarctica. Drinkwater, M.R., et al. [1995,eng] 50-1817
- C-band radar backscatter from antarctic first-year sea ice. 1. Jeffries, M.O., et al. [1995,eng] 50-6506
- C-band radar backscatter from antarctic first-year sea ice. 2. Morris, K., et al. [1995,eng] 50-6507
- Comment on paper by Papatsonis et al. Hill, S.C., et al. [1996,eng] 50-6336
- DEM corrected ERS-1 SAR data for snow monitoring in alpine regions. Guneriusen, T., et al. [1995,eng] 50-3716

- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1996,eng] 50-5810
- Dual-polarization airborne lidar observations of polar stratospheric cloud evolution. Poole, L.R., et al. [1990,eng] 50-5990
- Effect of particle nonsphericity on bidirectional reflectance of cirrus clouds. Mishchenko, M.I., et al. [1996,eng] 50-5278
- Effect of sea ice surface features on radar backscatter. Ulander, L.M.H., et al. [1995,eng] 50-1813
- Estimation of ice hydrometeor types and shapes from radar polarization measurements. Matrosov, S.Y., et al. [1995,eng] 50-3609
- Evaluation of ionospheric inhomogeneities using reverse-oblique sounding. Vovk, V.I.A., [1991,rus] 50-2265
- Exploring the behaviour of microwaves in a snowpack using modelling techniques. Leconte, R., [1996,eng] 50-5539
- Forest damage mapping with multitemporal ERS-1 SAR data. Rauste, Y., [1994,eng] 50-3229
- Fuzzy classification of earth terrain covers using complex polarimetric SAR data. Du, L., et al. [1996,eng] 50-4018
- Ice crystal optical properties of cirrus clouds. Gayet, J.F., et al. [1996,eng] 50-3684
- Iceberg detection using ERS-1 synthetic aperture radar. Willis, C.J., et al. [1996,eng] 50-5225
- Laboratory study of microwave backscattering from saline ice. Porco, R.L., [1994,eng] 50-683
- Lidar observation of wintertime polar stratospheric clouds. Browell, E.V., et al. [1990,eng] 50-5989
- Lidar observations of polar stratospheric cloud growth. Poole, L.R., et al. [1988,eng] 50-4634
- Millimetric radar backscatter from snowcover. Williams, L.D., et al. [1987,eng] 50-6200
- Modeling of backscattering by non-spherical ice particles for the interpretation of cloud radar signals at 94 GHz. An error analysis. Okamoto, H., et al. [1995,eng] 50-3101
- Noctilucent cloud observations over Greenland by a Rayleigh lidar. Thayer, J.P., et al. [1995,eng] 50-4542
- Noctilucent clouds and the thermal structure near the arctic mesopause in summer. Lübken, F.J., et al. [1996,eng] 50-5453
- North Polar stratospheric cloud dynamics. Rosen, J.M., et al. [1990,eng] 50-4723
- Observations of polar stratospheric clouds in the arctic winter 1989 at 79°N. Krüger, B.C., [1990,eng] 50-5984
- On the scattering behaviour of bullet-rose and bullet-shaped ice crystals. Strauss, B., [1996,eng] 50-6228
- Optical backscatter characteristics of arctic polar stratospheric clouds. Kent, G.S., et al. [1990,eng] 50-5987
- Ozone and aerosol correlated observations at Thule, Greenland, in the period 1991-1994. Di Sarra, A., et al. [1995,eng] 50-2849
- Radar measurements of melt zones on the Greenland ice sheet. Jezek, K.C., et al. [1994,eng] 50-4804
- Radar survey of French Alps snow cover. Bernier, M., et al. [1996,fre] 50-5542
- Radio wave scattering from melting snow particles. Zhang, W., et al. [1996,eng] 50-6622
- Rocky Mountain snowmelt on talus slopes by radar satellite. Maxfield, A.W., [1996,eng] 50-5544
- Rocky Mountain snowmelt on talus slopes by radar satellite. Maxfield, A.W., [1996,eng] 50-5544
- Saline ice sheet surface scattering with controlled roughness parameters. Bredow, J.W., et al. [1995,eng] 50-982
- SAR interferometric signatures of forest. Wegmüller, U., et al. [1995,eng] 50-981
- SAR observations of arctic freeze-up compared to SSM/I during ARCTIC91. Petterson, M.I., et al. [1996,eng] 50-6694
- Satellite radar detection of Alaskan forest ecosystem types. Harrell, P.A., et al. [1995,eng] 50-3493
- Satellite radar observations of Beaufort Sea autumn freeze-up. Winebrenner, D.P., et al. [1996,eng] 50-6218
- Sea ice radar backscatter and the fusion of active and passive microwave data. Beaven, S.G., [1995,eng] 50-4171
- Search for proxy indicators of young sea ice thickness. Zabel, I.H.H., et al. [1996,eng] 50-4303
- Seasonal radar backscatter variation from boreal forests. Pulliainen, J.T., et al. [1996,eng] 50-4765
- Sensor mapping of arctic wetland distribution. Morrissey, L.A., et al. [1996,eng] 50-4764
- Snow identification from radar wind profiler spectra. Ralph, F.M., et al. [1996,eng] 50-5163
- Some active and passive microwave signatures of antarctic sea ice from mid-winter to spring 1991. Gohin, F., [1995,eng] 50-161
- Some results from geocoding and calibration of ERS-1 SAR FD images in mountainous areas. Johnsen, H., et al. [1995,eng] 50-3717
- Surface morphology and backscattering of ice-ridge sails in the Baltic Sea. Manninen, A.T., [1996,eng] 50-4899
- Temporal analysis of ERS-1 SAR backscatter for hydrology applications. Crevier, Y., et al. [1996,eng] 50-5543
- Theoretical aspects of modeling backscattering by cirrus ice particles at millimeter wavelengths. Schneider, T.L., et al. [1995,eng] 50-3261
- Validation of backscatter models for level and deformed sea-ice in ERS-1 SAR images. Carlström, A., et al. [1995,eng] 50-1811
- Bacteria**
- Abundance and production of bacteria and viruses in the Bering and Chukchi Seas. Steward, G.F., et al. [1996,eng] 50-4158

Baffin Bay

Barents Sea

- Antagonism of bacteria isolated from the soils of Western Spitsbergen. Bellsund region. Józwik, Z., [1993,eng] 50-2187
- Applications of bacterial ice nucleation activity in food processing. Watanabe, M., et al., [1995,eng] 50-3287
- Applications of biological ice nucleators in spray-ice technology. LaDuca, R.J., et al., [1995,eng] 50-3289
- Bacterial activity in the Schirmacher Ponds in summer. Ramiah, N., [1995,eng] 50-1281
- Bacterial ecosystem dynamics in a high mountain lake. Alfreder, A., et al., [1996,eng] 50-5681
- Bacterial ice nucleation and its potential applications in the food industry. Li, J.K., et al., [1995,eng] 50-1956
- Bacterial population in mineral soils from Antarctica and its relations to organic nutrients. Böter, M., [1989,pol] 50-2925
- Biochemistry of bacterial ice nuclei. Fall, R., et al., [1995,eng] 50-3274
- Biodiversity of gas vacuolate bacteria from antarctic sea ice and water. Gosink, J.J., et al., [1995,eng] 50-864
- Biogenic organic compounds in ponds on the McMurdo Ice Shelf. Schall, C., et al., [1996,eng] 50-3703
- Biological control of insect pests using ice-nucleating microorganisms. Lee, R.E., Jr., et al., [1995,eng] 50-3284
- Biological ice nucleation and its applications. Lee, R.E., Jr., ed., et al., [1995,eng] 50-3270
- Biological phosphorus removal: effect of low temperature. Kumar, P., et al., [1996,eng] 50-4755
- Bioreactor with liquid suspensions of *Alcaligenes eutrophus* JMP134. McKay, D.J., et al., [1995,eng] 50-5660
- Characterization of a novel ice-nucleating bacterium. Kawahara, H., et al., [1995,eng] 50-1960
- Cold-climate constructed wetlands. Møhlum, T., et al., [1995,eng] 50-6066
- Control of epiphytic ice nucleation-active bacteria for management of plant frost injury. Lindow, S.E., [1995,eng] 50-3283
- Direct calcium magnesium acetate production. Flickinger, M.C., et al., [1992,eng] 50-2230
- Discovery of bacterial ice nucleation and its role in the injury of plants by frost. Upper, C.D., et al., [1995,eng] 50-3272
- Distribution of bacterioplankton in the Kara Sea in September 1993. Miskevich, I.N., et al., [1995,eng] 50-3537
- Ecology and physiology of psychrophilic bacteria from antarctic saline lakes and sea-ice. Nichols, D.S., et al., [1995,eng] 50-4086
- Ecology of ice nucleation-active bacteria. Hirano, S.S., et al., [1995,eng] 50-3273
- Effect of disturbance on forest soil microbiology in the Himalaya. Joshi, S.R., et al., [1994,eng] 50-5433
- Effect of freezing of water samples on viable counts of environmental mycobacteria. Iivanainen, E., et al., [1995,eng] 50-1953
- Environmental factors influencing the biodegradation of petroleum hydrocarbons in cold seawater. Siron, R., et al., [1995,eng] 50-651
- Estimating ice-active bacterial population on mango leaves. Cazorla, F.M., et al., [1995,eng] 50-1652
- Fatty acid adaptation in an antarctic bacterium—changes in primer utilization. Nichols, D.S., et al., [1996,eng] 50-4797
- Fatty acid adaptation in an antarctic bacterium—changes in primer utilization. Nichols, D.S., et al., [1996,eng] 50-4797
- Fluorimetric assessment of bacteria after freeze-thawing. Puchkov, E.O., et al., [1995,eng] 50-5865
- Great lake under the ice. Ellis-Evans, J.C., et al., [1996,eng] 50-5601
- Hydrogen sulfide forecasting techniques for the Kuparuk River Field. Frazer, L.C., et al., [1991,eng] 50-1729
- Ice active bacteria gene dynamics. Drains, C., et al., [1995,eng] 50-2347
- Ice nucleation-active genes and proteins. Warren, G.J., [1995,eng] 50-3275
- Ice-nucleation properties of various bacterial species. Kipriano, E.A., et al., [1995,eng] 50-3673
- Inter-annual variability in marine coastal antarctic bacterioplankton. Delille, D., et al., [1996,eng] 50-4006
- Low temperature ecology of a plant root bacterium. Sun, X.Y., et al., [1995,eng] 50-2733
- Marine bacterioplankton and sea ice bacterial seasonal changes. Delille, D., et al., [1996,eng] 50-3869
- Microbial sea ice ecology at a coastal antarctic site. Archer, S.D., et al., [1996,eng] 50-5456
- Microbiological activity in thermoglacial karst springs, South Spitsbergen. Lauritzen, S.E., et al., [1995,eng] 50-1403
- Molecular modeling of the three-dimensional structure of bacterial Ipa proteins. Kajava, A.V., [1995,eng] 50-3276
- Morphometry of bacterioplankton cells in the Barents Sea. Baitaz, V.A., et al., [1995,eng] 50-4203
- Nitrogen fixation in arctic vegetation and soils from Svalbard, Norway. Solheim, B., et al., [1996,eng] 50-4007
- Plankton at the ice-water interface. Delille, D., et al., [1995,eng] 50-165
- Siberian oil eating bacteria. [1991,eng] 50-4378
- Snow algae microbiology related to ultraviolet radiation effects. Thomas, W.H., et al., [1995,eng] 50-2814
- Transduction of *ina* genes for bacterial identification. Wolber, P.K., et al., [1995,eng] 50-3286
- Baffin Bay**
- North water polynya studies in Baffin Bay, Apr. 1978-Dec. 1979. Müller, F., et al., [1980,eng] 50-3974
- Balloons**
- POST: Polar Stratospheric Telescope. Bely, P.Y., et al., [1995,eng] 50-2527
- Baltic Sea**
- 1994/95 winter ice in the Baltic Sea between the Ems and the Oder rivers. Strübing, K., [1995,ger] 50-4535
- Arctic radioactive contamination from former Soviet Union sources. Bradley, D.J., [1992,eng] 50-5484
- Comparisons between the Okhotsk Sea and the Baltic Sea ice. Shirasawa, K., et al., [1996,eng] 50-5904
- Demonstration of operational sea-ice monitoring in the Baltic Sea with ERS-1 SAR. Herland, E.A., et al., [1995,eng] 50-1820
- Development of a Baltic Sea ice climate model. Leppäranta, M., et al., [1994,eng] 50-3202
- Ice conditions in Zalew Szczeciński (Stettiner Haff) during the winter 1994/95. Schmelzer, N., et al., [1995,eng] 50-4536
- Modeling the influence of ice on sea level variations in the Baltic Sea. Zhang, Z.H., et al., [1995,eng] 50-6758
- Near-shore Baltic ice lake deposits in Fakse Bugt, southeast Denmark. Bennike, O., et al., [1995,eng] 50-1798
- Reconstruction of the ice winter severity since 1701 in the western Baltic. Koslowski, G., et al., [1995,eng] 50-1957
- Research of the ice climatology of the Baltic Sea. Leppäranta, M., et al., [1996,eng] 50-5905
- Seasonal cycle of C_2-C_3 hydrocarbons over the Baltic Sea and northern Finland. Laurila, T., et al., [1996,eng] 50-5607
- Simulation of ship transit for Baltic ice conditions. La Prairie, D., et al., [1995,eng] 50-4583
- Spaceborne radar imagery for ice reporting in the Baltic Sea. Hakansson, B., et al., [1995,eng] 50-1821
- Bank protection (waterways)**
- Anti-frost behaviour of concrete lined canal with different structures. Song, B.Q., et al., [1989,chi] 50-1387
- Device for strengthening ground using buried components. Ostukov, B.S., et al., [1992,rus] 50-2053
- Management of winter soil temperatures to control streambank erosion. Bohn, C., [1989,eng] 50-2464
- Model of protecting the geological environment in the permafrost region. Kagan, A.A., [1995,eng] 50-343
- Banks (waterways)**
- Frost heave along banks of canals. Zhu, Q., et al., [1989,chi] 50-1361
- Influence of glacial deposits on river basin sedimentation. Campo, S.H., et al., [1994,eng] 50-2997
- Sandbanks in river beds in the foreground of Hörbye Glacier, Spitsbergen. Rachlewicz, G., [1989,pol] 50-2894
- Soil freeze-thaw effects on bank erodibility and stability. Gatto, L.W., [1995,eng] 50-2706
- See [also]: Shores
- Barents Sea**
- $2xCO_2$ experiment with prescribed changes in sea surface temperature. Mahfouf, J.-F., et al., [1992,eng] 50-226
- Acoustic wave perturbations within the Barents Sea Polar Front. Lynch, J.F., et al., [1996,eng] 50-4590
- Aerosols composition over the Arctic Ocean. Shevchenko, V.P., et al., [1995,eng] 50-2061
- Analyzing the accuracy of calculating the surface layer temperature of the Barents Sea. Garbuzov, A.V., [1992,rus] 50-1268
- Analyzing water quality in the Pechora Bay of the Barents Sea. Kuznetsov, V.S., et al., [1991,rus] 50-1321
- Anthropogenic factors in the dynamics of shelf and the Barents Sea coastal ecosystems. Matishov, G.G., et al., [1993,eng] 50-2190
- Are arctic soft-sediment macrobenthic communities impoverished. Kendall, M.A., [1996,eng] 50-6720
- Atlas of Arctic icebergs. Abramov, V., [1996,eng] 50-6320
- Barents Sea biomass reaction to gas condensate pollution. Gorbacheva, E.A., et al., [1996,eng] 50-6581
- Barents Sea ice sheet retreat. Forman, S.L., et al., [1996,eng] 50-5585
- Barents Sea Pleistocene ice sheet growth deduced from marine sediment provenance. Elverhøi, A., et al., [1995,eng] 50-2012
- Base Pliocene velocity inversion on the eastern Vøring Margin—causes and implications. Reemst, P., et al., [1996,eng] 50-5316
- Boundary layer characteristics of the continental margin of the western Barents Sea. Thomsen, L., et al., [1994,eng] 50-1245
- Brittle star fauna biomass in the northeastern Barents Sea. Piepenburg, D., et al., [1996,eng] 50-6719
- Cenozoic deposition in the Nansen Basin, Barents Sea. Vågenes, E., [1996,eng] 50-5313
- Cenozoic erosion and sediment yield in the drainage area of the Storfjorden Fan. Hjelstuen, B.O., et al., [1996,eng] 50-5310
- Cenozoic shelf erosion of the Barents Sea margin. Fiedler, A., et al., [1996,eng] 50-5309
- Challenges for the development of hydrocarbon fields in the Barents Sea. Gudmestad, O.T., et al., [1995,eng] 50-209
- Coastal environments of the western Kara and eastern Barents Seas. Pfirman, S.L., et al., [1995,eng] 50-4558
- Composition and characteristics of the distribution of ichthyoplankton in the southwestern Barents Sea. Zaleskikh, L.M., [1991,rus] 50-1313
- Decrease in the equilibrium line of glaciers in the European Arctic during the Pleistocene. Grosvald, M.G., et al., [1972,rus] 50-540
- Detailed morphometric characteristics of the Barents Sea. Dzhenik, S.L., [1992,rus] 50-1266
- Dynamics of the ecosystem of the Barents Sea. Matishov, G.G., et al., [1991,rus] 50-1295
- Ecological conditions in the Barents Sea (institutes and literature catalogue). Doronin, N., [1992,eng] 50-20
- Eddy formation in the polar frontal zone of the Barents Sea. Kostianoi, A.G., et al., [1992,rus] 50-1262
- Environment and ecosystems of Novaya Zemlya; the archipelago and shelf. Matishov, G.G., ed., [1995,rus] 50-5145
- Evolution of the ecosystem and biogeography of seas in the European Arctic. Pavlov, D.S., ed., [1994,rus] 50-3088
- Expedition of the Murmansk Marine Biology Institute to Franz Josef Land and Novaya Zemlya, 1991. Matishov, G.G., [1992,rus] 50-730
- Exploring the Barents Sea polar front. Gawarkiewicz, G., et al., [1996,eng] 50-6672
- Fluxes of nutrients between benthic and planktic communities in the coastal zone of the Barents Sea. Kuznetsov, L.L., et al., [1995,eng] 50-3606
- Foraminifera in glaciomarine sediments of arctic fjords. Korsun, S.A., et al., [1995,eng] 50-939
- Forward coupled-mode propagation modeling for coastal acoustic tomography. Chiu, C.S., et al., [1996,eng] 50-4589
- Gamma emitters in the Barents Sea area. Matishov, D.G., et al., [1993,eng] 50-2191
- Geometry and genesis of the glacial sediments in the southern Barents Sea. Vornen, T.O., et al., [1990,eng] 50-928
- Glacial geomorphic features in the northern Barents Sea. Solheim, A., et al., [1990,eng] 50-927
- Glacial influence on offshore Norwegian sediment properties. Sæmten, J., et al., [1996,eng] 50-5320
- Glacier-fed delta at a Barents Sea fjord. Laberg, J.S., et al., [1996,eng] 50-5921
- Huge Barents Sea gas field holds promise. [1991,eng] 50-4377
- Ice buoy tests of Barents Sea tidal motions. Pease, C.H., et al., [1995,eng] 50-2776
- Impact of Cenozoic uplift on offshore Norwegian hydrocarbon exploration. Døré, A.G., et al., [1996,eng] 50-5327
- Influence of ocean dredging on Barents Sea biota. Matishov, G.G., et al., [1995,eng] 50-3062
- Infrasound signatures of a polar low in the Norwegian and Barents Sea on 23-27 March 1992. Ørbeek, J.B., et al., [1995,eng] 50-2026
- Inter-annual variation in the radiation and turbulent flow in the Barents, Norwegian and Greenland seas. Girdiuk, G.V., [1992,rus] 50-1270
- Inter-diurnal variation of hydrometeorological elements of the Barents Sea. Girdiuk, G.V., [1992,rus] 50-1269
- Last deglaciation of the Franz Victoria Trough, northern Barents Sea. Lubinski, D.J., et al., [1996,eng] 50-6535
- Late Cenozoic evolution of the western Barents Sea-Svalbard continental margin. Faleide, J.I., et al., [1996,eng] 50-5308
- Late Cenozoic history of the Scandinavian and Barents Sea ice sheets. Mangerud, J., et al., [1996,eng] 50-5305
- Late Cenozoic sedimentation and uplift history on the mid-Norwegian continental shelf. Henriksen, S., et al., [1996,eng] 50-5315
- Late Weichselian deglaciation in the Murman offshore. Samoilovich, I.U.G., et al., [1993,eng] 50-2210
- Limits on the areal extent of the Barents Sea ice sheet in Late Weichselian time. Lambeck, K., [1996,eng] 50-5307
- Mass movements in glaciomarine sediments on the Barents Sea continental slope. Kuvaas, B., [1996,eng] 50-5321
- Megabenthic communities in the waters around Svalbard. Piepenburg, D., et al., [1996,eng] 50-6722
- Mercury and plastic in suspended Arctic Ocean sediment. Joinis, C.R., et al., [1995,eng] 50-1971
- Methane plumes near Bear Island, Barents Sea. Lammers, S., et al., [1995,eng] 50-748
- Method of calculating the breakup of ice cover. Khvedynich, S.V., [1992,rus] 50-1265
- Method of estimating sea ice flexural strength based on hydrometeorological data. Gavrilov, V.P., et al., [1995,eng] 50-214
- Middle and Late Pleistocene evolution of the Bear Island Trough Mouth Fan. Laberg, J.S., et al., [1996,eng] 50-5322
- Morphometry of bacterioplankton cells in the Barents Sea. Baitaz, V.A., et al., [1995,rus] 50-4203
- Northern Sea Route: its development and evolving state of operations in the 1990s. Mulherin, N.D., [1996,eng] 50-4960
- Norway entices exploration groups with improved licensing terms. [1995,eng] 50-2537
- Norwegian petroleum resources with focus on challenges and opportunities in the Barents Sea. Aamodt, F.R., [1995,eng] 50-174
- Observations of sea ice and icebergs in the western Barents Sea during the winter of 1987. Løset, S., et al., [1995,eng] 50-213
- Oceanographic conditions of Murman coastal biocoenoses. Boitsov, V.D., et al., [1995,eng] 50-4138
- Phytoplankton seasonal bloom shift in Barents Sea ice. Strass, V.H., et al., [1996,eng] 50-6721
- Plankton dynamics in the Barents Sea marginal ice zone. Hansen, B., et al., [1996,eng] 50-3528
- Pliocene sand ridges at the Barents Sea margin. Knutsen, S.M., et al., [1996,eng] 50-5314
- Polar regions: a political geography. Chaturvedi, S., [1996,eng] 50-5926
- Possible consequences of glacially induced groundwater flow. Forsberg, C.F., [1996,eng] 50-5325
- Preliminary application of Canadian ice regime system to the Northern Sea Route. Jones, S.J., et al., [1996,eng] 50-4429
- Preliminary results of studies of industrial and nuclear contaminants in the Ob and Yenisey rivers and the Kara Sea. Champ, M.A., et al., [1995,eng] 50-5060
- Processing and analysis of data from oceanographic field experiments. Golubev, V.A., et al., [1992,rus] 50-1261

Barometric pressure

- Quantification of Barents Sea Pleistocene bottom erosion. Rasmussen, E., et al. [1996,eng] 50-5311
- Real time oil spill forecasting during an experimental oil spill in the arctic ice. Reed, M., et al. [1994,eng] 50-1685
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- Report on the Czechoslovak biological diving expedition "Arctic 92". Duvriš, Z., [1993,eng] 50-2217
- Satellite studies of pollution in the Barents and Kara seas. Kogeler, J., et al. [1995,eng] 50-4136
- Sea floor morphology and glacial history of the Barents Sea. Solheim, A., et al. [1988,eng] 50-887
- Sediment flux from a fjord during glacial periods. Isfjorden, Spitsbergen. Hooke, R. L., et al. [1996,eng] 50-5318
- Sedimentation and mixing rates of radionuclides in Barents Sea sediments off Novaya Zemlya. Smith, J.N., et al. [1995,eng] 50-4561
- Solid phase sedimentation in the Barents Sea. Hulth, S., et al. [1996,eng] 50-6723
- Some questions of the Pleistocene sedimentation of the Barents Sea shelf. Tarasov, G.A., [1993,eng] 50-2213
- Sound propagation through hydrological fronts in the Barents Sea. Aleksandrov, I.A., [1995,eng] 50-3311
- Spaceborne radiometry of Barents Sea ice cover variations. Bjørge, E., et al. [1994,eng] 50-5077
- Stability of M_2 critical latitude in the Barents Sea. Furevik, T., et al. [1996,eng] 50-5262
- Study of short term variability in oceanographic data with the aid of numerical filters. Potanin, V.A., et al. [1992,rus] 50-1267
- Submerged terraces in the Barents Sea. Lebesbye, E., et al. [1996,eng] 50-4876
- Topographic control on the dynamics of the Svalbard-Barents Sea ice sheet. Siegert, M.J., et al. [1996,eng] 50-5306
- Transfer of reprocessing wastes from north-west Europe to the Arctic. Kershaw, P., et al. [1995,eng] 50-4559
- Turbulent heat transfer in the atmosphere of the northern European basin. Martem'ianova, E.S., [1992,rus] 50-1272
- Two-step deglaciation of the southeastern Barents Sea. Poliak, L., et al. [1995,eng] 50-561
- Wind forcing of marine primary production in the northern atmospheric low-pressure belt. Sakshaug, E., et al. [1995,eng] 50-4130
- Wind gusts in northern seas. Zykova, G.G., [1992,rus] 50-1271
- Zonal and meridional components of atmospheric heat exchange in the northern European basin. Martem'ianova, E.S., [1992,rus] 50-1273

Barometric pressure

See [also]: Atmospheric pressure

Barrier ice

See [also]: Ice shelves

Basal sliding

- Alaskan glacier basal ice deformation. Hart, J.K., [1995,eng] 50-1882
- Basal friction of Ice Stream E, West Antarctica. MacAyeal, D.R., et al. [1995,eng] 50-448
- Dynamics of ice flow. Menzies, J., [1995,eng] 50-3585
- Mass balance variations as surge controls of Norwegian glaciers. Dowdeswell, J.A., et al. [1995,eng] 50-4537
- Observations of pressure effects on the creep of ice single crystals. Cole, D.M., [1996,eng] 50-4901
- Progress in ice-stream basal modeling. Alley, R.B., [1994,eng] 50-1890
- Scottish landform examples. 9: Moraines in Coire na Creiche, Isle of Skye. Benn, D.I., [1993,eng] 50-3016
- Shear margins in glaciers and ice sheets. Raymond, C., [1996,eng] 50-4894
- Towards a hydrological model for computerized ice-sheet simulations. Alley, R.B., [1996,eng] 50-6092
- Water pressure and basal sliding on Storglaciären, northern Sweden. Jansson, P., [1995,eng] 50-446

Bases

See [also]: Foundations; Pavement bases; Permafrost bases

Basins

See [also]: River basins

Bathymetry

See [also]: Sounding

Baykal Amur railroad

- Features of using climatic data in calculating rock temperatures in mountainous countries. Leibman, M.O., [1983,rus] 50-315

Baykal Amur Railroad

- International Petropavlovsk-Kamchatskiy Port. Semenikhin, I.A.N., et al. [1996,eng] 50-4489

Beach erosion

See [also]: Shore erosion

Beaches

- Aerial surveillance of oil sheen following the Exxon Valdez oil spill shoreline cleanup. Taft, D.G., et al. [1995,eng] 50-3919
- Beach sedimentation on paraglacial coasts. Forbes, D.L., et al. [1995,eng] 50-1119
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995,eng] 50-1863
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995,eng] 50-5717
- Cleansing role of clay-oil flocculation in shoreline sediments following an oil spill. Bragg, J.R., et al. [1995,eng] 50-3918

- Comparison of shoreline assessment study designs used for the Exxon Valdez oil spill. Gilfillan, E.S., et al. [1996,eng] 50-5554

- Development of southern Bellsund beaches (West Spitsbergen). Jezierski, W., [1993,eng] 50-2202
- Forested beach ridge chronosequence on Yakutat foreland, Alaska. Shepard, M.E., [1995,eng] 50-3748
- Glacier retreat and raised beaches at Three Sisters Point. Birkenmajer, K., [1995,eng] 50-3937
- Integrated approach to shoreline mapping for spill response planning. Owens, E.H., et al. [1996,eng] 50-5561
- Late glacial raised beaches and glacier recession in northeast Iceland. Norddahl, H., et al. [1993,eng] 50-4772
- Management of shoreline protection and treatment operations. Owens, E.H., [1996,eng] 50-5562
- Natural cleaning of oiled coarse sediment shorelines in arctic and Atlantic Canada. Owens, E.H., et al. [1994,eng] 50-6231

- Oil on shorelines and shoreline treatment: a state-of-knowledge review. Owens, E.H., et al. [1996,eng] 50-5560
- Oil recovery and nearshore protection in Prince William Sound. Hood, S.D., [1995,eng] 50-5721
- Paleoecological implications of frost-shattered sediments on the Norwegian coast. Blikra, L.H., et al. [1995,eng] 50-2167
- Postglacial sea-level history of Edgeøya and Barentsøya, eastern Svalbard. Bondevik, S., et al. [1995,eng] 50-4715
- Prince William Sound intertidal biota—good news and bad news five years later. Houghton, J.P., et al. [1995,eng] 50-5730
- Prince William Sound, Alaska beach tar ball origins. Kvenvolden, K.A., et al. [1995,eng] 50-1864
- Proceedings. Arctic and Marine Oilspill Program Technical Seminar, 13th. Edmonton, Alberta, June 6-8, 1990, [1990,eng] 50-466
- Seasonal frost mounds of arctic beaches, Tuktoyaktuk Peninsula, Northwest Territories. Campeau, S., et al. [1995,eng] 50-4882

- Sedimentary structures of cold-climate coastal dunes, eastern Hudson Bay, Canada. Ruz, M.H., et al. [1995,eng] 50-3862
- Shoreline clean-up techniques—Exxon Valdez operations. Naud, S.A., [1990,eng] 50-478
- Shoreline cleanup following the Exxon Valdez oil spill. Owens, E.H., et al. [1990,eng] 50-476
- Shoreline cleanup following the Exxon Valdez oil spill. Teal, A.R., [1990,eng] 50-477
- Shoreline ecology program following the Exxon Valdez oil spill, pt. 1. Page, D.S., et al. [1995,eng] 50-3921
- Shoreline ecology program following the Exxon Valdez oil spill, pt. 2. Boehm, P.D., et al. [1995,eng] 50-3924
- Shoreline ecology program following the Exxon Valdez oil spill, pt. 3. Gilfillan, E.S., et al. [1995,eng] 50-3925
- Shoreline impacts in the Gulf of Alaska region following the Exxon Valdez oil spill. Gilfillan, E.S., et al. [1995,eng] 50-3926

- Shoreline monitoring following the Exxon Valdez incident. Owens, E.H., et al. [1990,eng] 50-480
- Shoreline oiling conditions in Prince William Sound following the Exxon Valdez oil spill. Neff, J.M., et al. [1995,eng] 50-3923
- Stranded oil persistence in cold climates. Humphrey, B., et al. [1990,eng] 50-475
- Subsurface Oil in Coarse Sediments Experiments (SOCSEX II). Harper, J.R., et al. [1995,eng] 50-5726
- Suggested improvements to oil spill response planning. Owens, E.H., [1990,eng] 50-479
- Use of mussels to assess bioavailability of hydrocarbons from the Exxon Valdez oil spill. Shigenaka, G., et al. [1995,eng] 50-3920

See [also]: Shores

Beaded streams

See [also]: Patterned ground

Bearing strength

- Compacted snow road. 1. Properties of snow. Eriksson, R., [1959,eng] 50-3853
- Comparison of load restriction timings determined using FHWA guidelines and frost tubes. Yesiller, N., et al. [1996,eng] 50-4752
- Determining the bearing strength of frozen foundations with variable temperature. Kononov, A.A., [1989,rus] 50-2253
- Development of the original ice borehole jack. Masterson, D.M., et al. [1996,eng] 50-5051
- Effect of fines content on frost heave. Tester, R.E., et al. [1996,eng] 50-6752
- Effect of the environment on the bearing capacity of a road. Final report. Part 1. Pfister, R., et al. [1979,eng] 50-2451
- Effects of prestressing on floating ice sheets. Quimby, T.B., et al. [1995,eng] 50-2943
- Elasto-delayed-elastic simulation of short-term deflection of fresh-water ice covers. Sinha, N.K., et al. [1996,eng] 50-5474
- Estimation of reliability of permafrost beds. Gerasimov, A.S., [1995,eng] 50-344
- Large-scale loading and collapse of natural sea ice and natural-artificial ice laminates. Lichtenberger, G.J., [1991,eng] 50-1718
- Permafrost foundation creep prediction from cone penetration tests. Ladanyi, B., et al. [1995,eng] 50-1825
- Pile bearing capacity in frozen soils. Mirenbur, I.U.S., [1996,eng] 50-6054
- Piles and pile foundations under conditions of Siberia. Soloviev, I.U.I., ed. [1994,rus] 50-5141

- Preliminary results from fatigue tests on in situ sea ice beams. Haskell, T.G., et al. [1996,eng] 50-5469
- Sea ice landing strip for Boeing-727 in northern Greenland. Sinha, N.K., [1995,eng] 50-2973
- Temperature and elasticity modulus of asphalt pavements. Balzer, S., [1992,eng] 50-2476
- Use of layered theory in the design and evaluation of pavement systems. Hicks, R.G., et al. [1982,eng] 50-5914
- See [also]: Ice cover strength; Snow strength; Trafficability

Beaufort Sea

- \$1.5 billion development plan set for BP's Alaskan Beaufort Sea fields. [1996,eng] 50-5290
- 1995 perspective on global design ice loads. Kennedy, K.P., [1995,eng] 50-2937
- Analysis of coastal ice cover using ERS-1 SAR data. Leshkevich, G., et al. [1995,eng] 50-1822
- Arctic kelp community in the Alaskan Beaufort Sea. Dunton, K.H., et al. [1982,eng] 50-3681
- Arctic operators seek warmth in a cold climate. Cottrill, A., [1986,eng] 50-5653
- Beaufort Sea Planning Area Oil and Gas Lease Sale 144. Final environmental impact statement. U.S. Department of the Interior. Minerals Management Service. Alaska Outer Continental Shelf Region. [1996,eng] 50-4552
- Blowout in Beaufort Sea gas well. [1989,eng] 50-5647
- Cyclic direct simple shear testing of a Beaufort Sea clay. McCarron, W.O., et al. [1995,eng] 50-579
- Exploratory oil drilling in the Beaufort Sea. Cottrill, A., [1986,eng] 50-5651
- Formation and morphology of ice stalactites observed under deforming lead ice. Perovich, D.K., et al. [1995,eng] 50-452
- Ice-structure interaction research and arctic development. Kennedy, K.P., et al. [1995,eng] 50-6304
- Inertial currents in the Beaufort Sea: observations of response to wind and shear. Merrifield, M.A., et al. [1996,eng] 50-4299
- Interannual variability of the ice cover in the Chukchi and Beaufort Seas. Chouinard, L.E., et al. [1995,eng] 50-187
- Measurements of the underside topography of sea ice by moored subsea sonar. Melling, H., et al. [1995,eng] 50-160
- Monitoring lead dynamics with ERS-1 synthetic aperture radar imagery. Wackerman, C.C., et al. [1994,eng] 50-1512
- New arctic drilling rig. [1987,eng] 50-4286
- NRC centre for ice loads on Beaufort Sea structures. Timco, G.W., [1996,eng] 50-3238
- Numerical model simulation of a summer reversal of the Beaufort gyre. Preller, R.H., et al. [1989,eng] 50-4706
- Numerical simulation of arctic stratus cloud turbulence. Smith, W.S., et al. [1996,eng] 50-2773
- Oil pollution in Arctic waters. Futsaeter, G., et al. [1991,eng] 50-3421
- Petroleum resources of the Mackenzie Delta and Beaufort Sea. Dixon, J., et al. [1994,eng] 50-3319
- Physical characteristics of arctic stratus clouds. Tsay, S.C., et al. [1984,eng] 50-4922
- Remote sensing of sea ice variations in response to atmospheric circulation. Maslanik, J.A., et al. [1995,eng] 50-1815
- Review of select exploration and development activity in state nearshore areas. Hansen, J., [1995,eng] 50-6305
- Satellite radar observations of Beaufort Sea autumn freeze-up. Winebrenner, D.P., et al. [1996,eng] 50-6218
- Sea ice concentrations derived from satellite microwave imagery. Lomax, A.S., et al. [1995,eng] 50-1244
- Sea ice scouring on the inner shelf of the southeastern Canadian Beaufort Sea. Héquette, A., et al. [1995,eng] 50-1830
- Seasonal development of Beaufort Sea pack ice. Melling, H., et al. [1996,eng] 50-5857
- Storm surges in Canadian waters. Murty, T.S., et al. [1995,eng] 50-1854
- Study of multi-year pressure ridges and shore ice pile-up. Kovacs, A., [1975,eng] 50-855
- Surprising success for Arctic lease sale. [1988,eng] 50-4967
- U.S.G.S. Geotechnical Investigation—Beaufort Sea, Alaska-1979, Vol.1. Bruggers, D.E., et al. [1979,eng] 50-3313
- Wind-induced ice floe rotation and icequakes north of the Alaskan Beaufort Sea coast. Kozzo, T.L., et al. [1996,eng] 50-6508

Bedrock

- 20th-century glacial-marine sedimentation in Vitus Lake, Bering Glacier, Alaska. U.S.A. Molnia, B.F., et al. [1996,eng] 50-6262
- Abraded rock landforms (whalebacks) developed under ice streams in mountain areas. Evans, I.S., [1996,eng] 50-6234
- Alpine tree line soil erosion derived from bedrock geomorphological map analysis. Stocker, E., [1996,ger] 50-6678
- Basal friction of Ice Stream E, West Antarctica. MacAyeal, D.R., et al. [1995,eng] 50-448
- Bedrock surface weathering on Finnish fjell summits. McCarron, D., et al. [1996,eng] 50-5825
- Bedrock topographic effects on subglacial erosion. Rea, B.R., et al. [1996,eng] 50-6249
- Cavities and the effective pressure between abrading clasts and bedrock. Hindmarsh, R.C.A., [1996,eng] 50-6237
- Chronology of Upper Pleistocene stratified slope-waste deposits in central Italy. Coltorti, M., et al. [1996,eng] 50-6700
- Early stages of till genesis: an example from Fanore, County Clare, Ireland. Croot, D.G., et al. [1996,eng] 50-5828
- Fracturing of glacial drift and bedrock over longwall mine panels. Johnston, M.A., et al. [1993,eng] 50-5517
- Geochemical correlation between coarse and fine fractions of till in southern Finland. Tarvainen, T., [1995,eng] 50-2705

Bentonite

Biogeography

- Geochemical process responses to potential Scandinavian climatic change. Dixon, J.C., et al. [1995,eng] 50-4194
- Geological and geophysical exploration of alpine and peri-alpine glacial valleys. Pugin, A., et al. [1995,eng] 50-3315
- Glacial deposit geochemistry at a Manitoba mining site. Nielsen, E., et al. [1991,eng] 50-3911
- Glacial dispersal of mineralized bedrock mercury. Plouffe, A., [1995,eng] 50-882
- Glacial quarrying: a simple theoretical model. Hallet, B., [1996,eng] 50-6233
- GPS recording of Hells Gate ice shelf tidal responses. Bondesan, A., et al. [1994,eng] 50-3765
- Ground penetrating radar sounding of bedrock under a frozen lake. Davis, J.L., et al. [1992,eng] 50-57
- Hydrochemical indicators of subglacial drainage system structure. Tranter, M., et al. [1996,eng] 50-6086
- Ice-flow indications of complex Alaskan deglaciation events. Syversen, K.M., [1995,eng] 50-1801
- Identification of elements of fluvio-glacial shapes characteristic of glacial outbursts. Robitaille, A., et al. [1995,eng] 50-5041
- Impact of subglacial geothermal activity on glacier meltwater quality. Lawler, D.M., et al. [1996,eng] 50-6087
- Implications of bedrock cosmic ray exposure age for Fennoscandian ice sheet height. Brook, E.J., et al. [1996,eng] 50-3813
- New indicator of glacial dispersal: lead isotopes. Bell, K., et al. [1995,eng] 50-1857
- Parent materials of Wrangel Island. Oganessian, A.Sh., et al. [1995,eng] 50-1052
- Pleistocene glaciation of the Outer Hebrides, Scotland. Ballantyne, C.K., et al. [1995,eng] 50-6212
- Postglacial microbiological weathering of granite roches moutonnées. André, M.F., [1995,eng] 50-4832
- Quaternary glacial transport in the Hudson Bay region. Parent, M., et al. [1995,eng] 50-4527
- Quaternary stratigraphy of the buried valleys of the lower Red Deer River, Alberta, Canada. Evans, D.J.A., et al. [1995,eng] 50-1080
- Rates of rock surface lowering, Princess Elizabeth Land, eastern Antarctica. Spate, A.P., et al. [1995,eng] 50-4149
- Raw oil and gas bedrock potential of organic matter sediments. Gretskaia, E.V., [1990,rus] 50-4942
- Runoff composition in a bedrock catchment watershed. Clow, D.W., et al. [1995,eng] 50-2415
- Sliding of glacial till over bedrock. Hindmarsh, R.C.A., [1996,eng] 50-6238
- Sounding to determine the thermophysical properties of frozen ground and bedrock. Gavrilov, R.I., [1993,rus] 50-124
- Subpermafrost groundwater, western Svalbard. Haldorsen, S., et al. [1994,eng] 50-5697
- Subsurface seismotectonistric mapping at Anchorage. Schmoll, H.R., et al. [1986,eng] 50-483
- Surficial weathering fluxes and their geochemical controls. Lerman, A., [1994,eng] 50-1238
- Suspended sediment weathering in alpine glacial meltwater. Brown, G.H., et al. [1996,eng] 50-6088
- Taylor Ice Dome study 1993-1994: an ice core to bedrock. Grootes, P.M., et al. [1994,eng] 50-1898
- Tectonics sketch of the offshore area within Hornsund region, Spitsbergen. Bednarek, J., et al. [1993,eng] 50-2195
- Thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. Björnson, H., et al. [1996,eng] 50-4888
- Till genesis through shear diffusion. Charbonneau, R., et al. [1995,eng] 50-3364
- Topographic control on the dynamics of the Svalbard-Barents Sea ice sheet. Siegfert, M.J., et al. [1996,eng] 50-5306
- Water pressure and basal sliding on Storglaciären, northern Sweden. Jansson, P., [1995,eng] 50-446
- Weathering processes in marbles from Independence and Patriot Hills. Yoshikawa, K., et al. [1995,eng] 50-4383
- Bentonite**
See [also]: Clay minerals
- Bering Sea**
Abundance and production of bacteria and viruses in the Bering and Chukchi Seas. Steward, G.F., et al. [1996,eng] 50-4158
- ADCP-referenced geostrophic circulation in the Bering Sea basin. Cokerlet, E.D., et al. [1996,eng] 50-6635
- Arctic operators seek warmth in a cold climate. Cottrill, A., [1986,eng] 50-5653
- Chernobyl fallout in Bering Sea sediments. Kusakabe, M., et al. [1988,eng] 50-4635
- Chlorophyll in the western Bering Sea. Mordasova, N.V., [1995,eng] 50-3605
- Circulation in the Bering Sea basin observed by satellite-tracked drifters: 1986-1993. Stabenro, P.J., et al. [1994,eng] 50-2856
- Clay minerals as sediment source indicators, Russian Arctic. Naidu, A.S., et al. [1995,eng] 50-1120
- Coupled ice-ocean-atmosphere model of the Bering Sea. Hedstrom, K.S., [1995,eng] 50-6310
- Direct evidence for northward flow on the northwestern Bering Sea shelf. Overland, J.E., et al. [1996,eng] 50-5266
- Direct measurements of transport and water properties through the Bering Strait. Roach, A.T., et al. [1995,eng] 50-566
- Distribution of cesium-137 in Bering and Chukchi Sea marine sediments. Cooper, L.W., et al. [1995,eng] 50-5062
- DOC storage in arctic seas: the role of continental shelves. Walsh, J.J., [1995,eng] 50-1165
- Doppler observations of Bering Sea ice edge ocean circulation. Okkonen, S., et al. [1995,eng] 50-1032
- Ecological investigations in the Bering Sea. Sapozhnikov, V.V., [1994,eng] 50-869
- Ecosystem dynamics of the Bering and Chukchi Seas. Tsyban', A.V., [1995,eng] 50-3608
- Evidence for Cenozoic crustal extension in the Bering Sea region. Cooper, A.K., et al. [1992,eng] 50-2565
- Flow trajectories in the Bering Sea: evidence for chaos. Reed, R.K., et al. [1990,eng] 50-4730
- Identification of the Holocene-Pleistocene boundary in the Bering Sea by diatoms. Baldauf, J.G., [1982,eng] 50-3382
- Interference fringes from Bering Sea sonar images. Huggett, Q.J., et al. [1992,eng] 50-4250
- Isotope analysis of Bering Sea Pleistocene sediment variations. Nakatsuka, T., et al. [1995,eng] 50-3002
- Latest Quaternary foraminifers and sediment transport in Perovskits Canyon, Bering Sea. Starratt, S.W., [1995,eng] 50-3347
- Numerical study of the circulation of the Bering Sea basin and exchange with the North Pacific Ocean. Overland, J.E., et al. [1994,eng] 50-2855
- On the climatological mean circulation over the eastern Bering Sea shelf. Reed, R.K., et al. [1996,eng] 50-6201
- Periodic variations in air-water gas exchange of Arctic Ocean insecticide pollutants. Jantunen, L.M., et al. [1995,eng] 50-1862
- Plankton biomass variations in the Bering Sea. Tsejlin, V.B., et al. [1994,eng] 50-867
- Plume of the Yukon River in relation to the oceanography of the Bering Sea. Dean, K.G., et al. [1989,eng] 50-3933
- Spring-bloom time-series at the Bering Sea ice edge pt. 1. Niebauer, H.J., et al. [1995,eng] 50-1031
- Study of Bering Sea primary productivity. Sapozhnikov, V.V., et al. [1995,eng] 50-6687
- Thermohaline characteristics of the shelf fronts in the western Bering Sea. Verkhunov, A.V., [1995,eng] 50-2533
- Transfer coefficients of radon-222 across the sea surface. Kholitskii, S.N., et al. [1995,rus] 50-4120
- Bering Strait**
Geoelectromagnetic monitoring of water discharge in the Bering Strait. Shneer, V.S., et al. [1995,eng] 50-3831
- Recent history of the Bering Strait. Svitoch, A.A., et al. [1995,eng] 50-2535
- Role of the Bering Strait in controlling North Atlantic ocean circulation and climate. Shaffer, G., et al. [1994,eng] 50-3769
- Bibliographies**
Alpine glaciers in the Little Ice Age—catalogue and C¹⁴ documentation. Zumbühl, H.J., et al. [1990,ger] 50-3398
- Analytical methods to study road construction encroachment on the environment. Ivehamm, P., [1996,swe] 50-6686
- Annual report 1995. National Snow and Ice Data Center. World Data Center-A for Glaciology. [1995,eng] 50-4604
- Arctic and Offshore Research Information System. Shoemaker, H.D., et al. [1991,eng] 50-1753
- Bibliography on the hydrology of the Himalaya-Karakoram region. Young, G.J., et al. [1996,eng] 50-5273
- Chinese participation in the World Data Center for Glaciology. Part 2. Chen, X.Z., et al. [1995,chi] 50-3992
- Chinese participation in the World Data Center for Glaciology. Chen, X.Z., et al. [1995,chi] 50-3991
- Ecological conditions in the Barents Sea (institutes and literature catalogue). Doronin, N., [1992,eng] 50-20
- Eschers: an essay of bibliographic review. Levasseur, D., [1995,fre] 50-5042
- From card catalog to computer file: the impact of technology on the production of polar bibliographic databases. Andrews, M., [1994,eng] 50-5247
- Glaciological research in Svalbard: a bibliography. Macqueen, A.D., [1993,eng] 50-5208
- History of cold regions heat transfer: chronology. Cheng, K.C., et al. [1996,eng] 50-6433
- Hydrological bibliography of Switzerland for 1994. Sevruck, B., et al. [1994,ger] 50-4596
- Hydrological bibliography of Switzerland for 1992. Sevruck, B., et al. [1992,ger] 50-5028
- List of publications, No.6. March 1996. Norsk Polarinstitutt (Norwegian Polar Institute). [1996,nor] 50-5656
- Microbial life in permafrost: a historical review. Gilchinskii, D.A., et al. [1996,eng] 50-6701
- Nordic permafrost—a bibliography. Akerman, H.J., [1993,eng] 50-5304
- NRC centre for ice loads on Beaufort Sea structures. Timco, G.W., [1996,eng] 50-3238
- Synoptic look at research on snow topics. Toupin, J., [1994,fre] 50-5026
- Biochemistry**
Hydrocarbons in antarctic ice algae. Fogelqvist, E., et al. International Conference on Natural-Produced Halogens, Delft, The Netherlands, 1995. Edited by A. Grimwall and E.W.B. de Lee, [1995,eng] 50-4824
- Bioenvironment**
See [also]: Ecology; Ecosystems
- Biogeography**
Additions and range extensions to the vascular plant flora of the Northwest Territories, Canada. Cody, W.J., [1996,eng] 50-6342
- Alaskan Palaeogene climates as inferred from the CLAMP database. Wolfe, J.A., [1994,eng] 50-908
- Alpine lichens in SW Tasmania. Kantvilas, G., [1995,eng] 50-3777
- Alpine plant diversity: a global survey and functional interpretations. Körner, C., [1995,eng] 50-3892
- Alpine vascular flora of the Tushar Mountains, Utah. Taye, A.C., [1995,eng] 50-1541
- Arctic and alpine biodiversity: patterns, causes and ecosystem consequences. [1995,eng] 50-3888
- Arctic tundra biodiversity: a temporal perspective from Late Quaternary pollen records. Brubaker, L.B., et al. [1995,eng] 50-3894
- Arcto-alpine and boreal elements in the high altitude flora of north west Himalaya. Gupta, R.K., [1994,eng] 50-5417
- Assessment on the diversity and status of the alpine plants of Indian Himalaya. Samant, S.S., [1994,eng] 50-5424
- Beetle microhabitat distribution in a glacier ablation zone. Gerben, B.A., [1995,eng] 50-2812
- Biological productivity of Siberian ecosystems. Bazilevich, N.I., [1995,eng] 50-2713
- Bottom biocoenoses of the Laptev Sea and adjacent areas. Sirenko, B.I., et al. [1995,eng] 50-2088
- Causes of arctic plant diversity: origin and evolution. Murray, D.F., [1995,eng] 50-3890
- Cenozoic plants and climates of the Arctic. Boulter, M.C., ed, et al. [1994,eng] 50-892
- Comparative characteristics of polychaete taxocenes in Pevek Strait, Chum Bay, and Long Strait. Gagev, S.I.U., [1995,eng] 50-2534
- Condition and recent trends in high-elevation red spruce populations. Peart, D.R., et al. [1992,eng] 50-4053
- Conifer relicts or paleoclimatic indicators. Mai, D.H., [1994,eng] 50-906
- Connecting links between the Arctic Palaeogene and European Tertiary faunas. Kvaček, Z., [1994,eng] 50-910
- Distribution of the high arctic grass, *Phippisia algida*. Grulke, N.E., [1995,eng] 50-78
- Estimate of the early Tertiary paleoclimate of the southern Arctic. Tiffney, B.H., [1994,eng] 50-911
- Floristic changes in the areas surrounding the Paratethys during Neogene time. Kovar-Eder, J., et al. [1994,eng] 50-915
- Fossil flora of the Palaeogene climatic optimum in north eastern Asia. Budantsev, L.I.U., [1994,eng] 50-912
- Himalaya, its ecology and biogeography: a review. Mani, M.S., [1994,eng] 50-5416
- Holocene climatic, vegetation and pollen data of Siberia adjacent to the Laptev Sea. Naidina, O.D., [1995,eng] 50-2091
- Impact of global warming on tundra and forest ecosystems. Möchl, M., et al. [1995,eng] 50-4865
- Implications for changes in arctic plant biodiversity from environmental manipulation experiments. Callaghan, T.V., et al. [1995,eng] 50-3897
- Invasion of arcto-tertiary elements in the Palaeogene of central Europe. Walther, H., [1994,eng] 50-909
- Late Eocene-Oligocene dinoflagellate provincialism in the North Atlantic Ocean. Damassa, S.P., et al. [1994,eng] 50-898
- Micro-scale patterns of modern pollen deposition within three alpine plant communities. Pardoe, H.S., [1996,eng] 50-4253
- Migrations and evolution: computerised maps from computerised data. Brown, S.M., [1994,eng] 50-914
- Molecular and genetic diversity of arctic bedding plants. Abbott, R.J., et al. [1995,eng] 50-4093
- Morphological and physiological radiation in *Draba*. Pfisch, W.A., [1994,eng] 50-3051
- Mountain hemlock expansion in a subalpine ecosystem. Taylor, A.H., [1995,eng] 50-3321
- Origin and evolution of the mountain flora in Middle Asia and neighbouring mountain regions. Agakhanians, O.E., et al. [1995,eng] 50-3893
- Overview of the reproductive biology of *Espeletia* (Asteraceae) in the Venezuelan Andes. Berry, P.E., et al. [1994,eng] 50-3056
- Paleoecology of arctic lake sediment macrofossils. Birks, H.H., [1991,eng] 50-3305
- Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st, Burg Wartenstein, Austria, June 8-17, 1979. [1982,eng] 50-3369
- Patterns and causes of arctic plant community diversity. Walker, M.D., [1995,eng] 50-3889
- Patterns and current changes in alpine plant diversity. Grabherr, G., et al. [1995,eng] 50-3898
- Patterns, cause, changes and consequences on biodiversity in arctic and alpine ecosystems. Chapin, F.S., III, et al. [1995,eng] 50-3907
- Phylogeographic relationships in the cool temperate rainforests of Chile. Arroyo, M.T.K., et al. [1996,eng] 50-4064
- Pine tree distribution in the permafrost zone of the Greater Khingan Range. Lu, G.W., [1989,chi] 50-1346
- Planktonic DNA diversity in the Canadian high Arctic. Van Raay, T.J., et al. [1995,eng] 50-4092
- Population biology of Mount Kenya lobelias. Young, T.P., [1994,eng] 50-3057
- Population biology of *Senecio keniodendron* (Asteraceae) and Afroalpine giant rosette plant. Smith, A.P., et al. [1994,eng] 50-3058
- Relation between distribution of phytoplankton and sea water stability. Su, Y.F., [1989,chi] 50-6767
- Response of alpine vegetation canopy to experimental wind barrier. Smith, B., et al. [1996,eng] 50-3786
- Rotifer ecology in high-altitude alpine sites. Jersabek, C.D., [1995,eng] 50-4163
- Spatial explicit modeling of arctic tundra landscapes. Ostendorf, B., [1994,eng] 50-698
- Spruce succession, disturbance, and geomorphology on the Tanana River floodplain, Alaska. Mann, D.H., et al. [1995,eng] 50-2159
- Spruce-fir forests of eastern North America. White, P.S., et al. [1992,eng] 50-4050

Biology

- Tree regeneration in Coloradan forest-tundra ecosystem. Weisberg, P.J., et al. [1995,eng] 50-3295
- Tropical alpine environments—plant form and function. Rundel, P.W., ed. [1994,eng] 50-3043
- Vegetation cover of Québec-Labrador 6000 years BP: an essay. Richard, P.J.H., [1995,eng] 50-1457
- Vegetation geographical/synecological research at Liefdeford (NW Spitsbergen). Thannheiser, D., [1994,ger] 50-1590
- Vertical distribution of lichens on the mountain. Aucellabjerg, northeastern Greenland. Hansen, E.S., [1996,eng] 50-4344
- Biology** See [also]: Cryobiology; Marine biology; Microbiology
- Biomass**
- ^{13}C and ^{15}N uptake by phytoplankton in the marginal ice zone of the Bellingshausen Sea. Bury, S.J., et al. [1995,eng] 50-1028
- ^{234}Th as an indicator of particulate fluxes in the Kara Sea. Kuptsov, V.M., et al. [1995,eng] 50-3544
- Abundance and production of bacteria and viruses in the Bering and Chukchi Seas. Steward, G.F., et al. [1996,eng] 50-4158
- Alaskan tundra sedge response to fertilizer treatment. Shaver, G.R., et al. [1995,eng] 50-1469
- Analyzing the state of Ural tributaries of the Ob' River according to zoobenthos indicators. Sharapova, T.A., et al. [1994,rus] 50-283
- Antarctic planktonic biomass seasonal variations. Skerratt, J.H., et al. [1995,eng] 50-1118
- Antifreeze glycopeptides and peptides in fish from the Weddell and Lazarev seas. Wöhrmann, A.P.A., [1996,eng] 50-3959
- Arctic and alpine biodiversity: patterns, causes and ecosystem consequences. [1995,eng] 50-3888
- Arctic dwarf shrub response to simulated climatic warming. Michelsen, A., et al. [1996,eng] 50-5770
- Arctic fungi classification and structural analysis. Currah, R.S., et al. [1996,eng] 50-4264
- Arctic kelp community in the Alaskan Beaufort Sea. Dunton, K.H., et al. [1982,eng] 50-3681
- Arctic Ocean dimethyl sulfide seasonal variability. Leck, C., et al. [1996,eng] 50-4313
- Arctic soil microbial biomass response to fertilizer additions. Jonasson, S., et al. [1996,eng] 50-6230
- Arctic vegetation types as response predictors to global change. Chapin, F.S., III, et al. [1996,eng] 50-6557
- Are arctic soft-sediment macrobenthic communities impoverished. Kendall, M.A., [1996,eng] 50-6720
- Assessing sensitivities of forests to climate change. Fischlin, A., [1995,eng] 50-1018
- Autumnal sea ice biota in polar seas. Hoshiai, T., et al. [1996,eng] 50-6031
- Bacterial activity in the Schirmacher Ponds in summer. Ramiah, N., [1995,eng] 50-1281
- Bacterial ecosystem dynamics in a high mountain lake. Alfrieder, A., et al. [1996,eng] 50-5681
- Bacterial population in mineral soils from Antarctica and its relations to organic nutrients. Böler, M., [1989,pol] 50-2925
- Barents Sea biomass reaction to gas condensate pollution. Gorbacheva, E.A., et al. [1996,eng] 50-6581
- Basis for statistical inferences in coastal injury assessment of Exxon Valdez oil spill. McDonald, L.L., et al. [1995,eng] 50-3922
- Beetle microhabitat distribution in a glacier ablation zone. Gerben, B.A., [1995,eng] 50-2812
- Benthic foraminiferal assemblages and sea ice drift in the Arctic Ocean. Wollenburg, J., [1995,ger] 50-2443
- Benthic studies in the Laptev Sea. Schmid, M.K., et al. [1995,eng] 50-2087
- Benthic-pelagic coupling in the Greenland-Norwegian Sea and its effect on the geological record. Graf, G., et al. [1995,eng] 50-747
- Biogenic composition of ice-rafted debris in Atlantic Ocean bottom sediment. van Kreveld, S.A., et al. [1996,eng] 50-5219
- Biogenic organic compounds in ponds on the McMurdo Ice Shelf. Schall, C., et al. [1996,eng] 50-3703
- Biogeochemical study in the Bellingshausen Sea: overview of the STERNA 1992 expedition. Turner, D.R., et al. [1995,eng] 50-1021
- Biogeochemistry of heavy metals in the Arctic. Dobrovolski, V.V., [1995,rus] 50-3971
- Biological CO_2 pump in seasonally ice-covered waters. Legendre, L., [1996,eng] 50-6033
- Biological processes on arctic continental shelves: ice-ocean-biotic interactions. Grebmeier, J.M., et al. [1995,eng] 50-1166
- Biological productivity of Siberian ecosystems. Bazilevich, N.I., [1995,eng] 50-2713
- Biology of high latitude kelp. Dunton, K.H., et al. [1995,eng] 50-4139
- Biomass and production of vascular plants in a mesotrophic fen. Saarinen, T., et al. [1994,eng] 50-3215
- Biomass burning recorded in the GISP2 ice core: a record from eastern Canada? Taylor, K.C., et al. [1996,eng] 50-4370
- Biomass burning signatures in Greenland snow and atmosphere. Dibb, J.E., et al. [1996,eng] 50-3152
- Biomass diversity in arctic and alpine ecosystems. Pastor, J., [1995,eng] 50-3904
- Biomass, primary production, and nutrient dynamics in a Himalayan forest. Rawat, Y.S., et al. [1994,eng] 50-5435
- Bottom biocoenoses of the Laptev Sea and adjacent areas. Sirenko, B.I., et al. [1995,eng] 50-2088

- Boundary layer characteristics of the continental margin of the western Barents Sea. Thomsen, L., et al. [1994,eng] 50-1245
- Brittle star fauna biomass in the northeastern Barents Sea. Piepenburg, D., et al. [1996,eng] 50-6719
- Carbon acquisition and growth of antarctic sea ice diatoms in closed bottle incubations. Gleitz, M., et al. [1996,eng] 50-5455
- Carbon in boreal coniferous forest soil. Westman, C.J., et al. [1994,eng] 50-3203
- Chlorophyll distribution in a body of fresh water covered with ice. Zavoruev, V.V., et al. [1996,eng] 50-5816
- Chlorophyll fluorescence in the Laptev Sea. Anoshkin, A.F., et al. [1995,eng] 50-2083
- Chlorophyll in the western Bering Sea. Mordasova, N.V., [1995,eng] 50-3605
- Classification uncertainties within foraminifera species in McMurdo Sound, Antarctica. Bowser, S.S., et al. [1995,eng] 50-3345
- Climate change and biological oceanography of the Arctic Ocean. Gradinger, R., [1995,eng] 50-5233
- Climate change in the recent evolution of a pro-glacial lake. Webster, J., et al. [1996,eng] 50-3704
- Comparative characteristics of polychaete taxocenoses in Pevek Strait, Chum Bay, and Long Strait. Gageva, S.I.U., [1995,eng] 50-2534
- Composition and distribution of summer zooplankton in the Laptev Sea. Kosobokova, K., et al. [1995,eng] 50-2085
- Condition and recent trends in high-elevation red spruce populations. Peart, D.R., et al. [1992,eng] 50-4053
- Constraints on primary productivity in the coastal temperate forests of the Americas. Waring, R.H., et al. [1996,eng] 50-4062
- Contemporary status of bottom fauna in the Chernaya Bay (Novaya Zemlya Archipelago). Matishov, G.G., et al. [1996,eng] 50-4147
- Contribution of fast-ice algae to the spring phytoplankton bloom in Ellis Fjord. McMinn, A., [1996,eng] 50-5271
- Creation of high-productive seeding meadows on disturbed arctic lands. Tikhmenev, E.A., [1991,eng] 50-1744
- Daily vertical migration of antarctic copepods beneath the ice. Tseitin, V.B., et al. [1995,eng] 50-3607
- Decline of fauna in small streams in the Swedish mountain range. Olofsson, E., et al. [1995,eng] 50-4078
- Decomposition of soil surface lichens in mountain tundra and taiga. Parinkina, O.M., et al. [1995,eng] 50-3875
- Distribution and biomass of Greenland shelf epibenthic megafauna. Piepenburg, D., et al. [1996,eng] 50-5045
- Distribution of bacterioplankton in the Kara Sea in September 1993. Mitskevich, I.N., et al. [1995,eng] 50-3537
- Distribution of pesticide residues in arctic coastal ecosystems. Bright, D.A., et al. [1995,eng] 50-4747
- Distribution of sea-ice algae in Hudson Bay. Monti, D., et al. [1996,eng] 50-5211
- DOC storage in arctic seas: the role of continental shelves. Walsh, J.J., [1995,eng] 50-1165
- Dynamic model of the pelagic ecosystem of the Kara Sea. Lebedeva, L.P., et al. [1995,eng] 50-3540
- Ecological investigations in the Bering Sea. Sapozhnikov, V.V., [1994,eng] 50-869
- Ecological study in an alpine pasture of Bhagirathi Valley, Garhwal Himalaya. Rajwar, G.S., et al. [1994,eng] 50-5429
- Ecology and conservation of alpine meadows in central Himalaya, India. Ram, J., et al. [1994,eng] 50-5418
- Ecology and physiology of psychrophilic bacteria from antarctic saline lakes and sea-ice. Nichols, D.S., et al. [1995,eng] 50-4086
- Ecology of an alpine cushion plant. Owen, W.R., [1995,eng] 50-1540
- Ecology of fjords and coastal waters. Skjoldal, H.R., ed. et al. [1995,eng] 50-4128
- Ecosystem dynamics of the Bering and Chukchi Seas. Tsyban', A.V., [1995,eng] 50-3608
- Ecosystem of the sea ice in Antarctica. Rakusa-Suszczewski, S., [1989,pol] 50-2875
- Effect of air pollution on soil invertebrates in the Lapland biosphere reserve. Gliazova, E.V., [1994,rus] 50-286
- Effect of drainage intensity and fertilization on peat carbon compounds and their mineralization. Karstio, M., et al. [1994,eng] 50-3225
- Effect of forest drainage on the carbon balance of peatland ecosystems. Laine, J., et al. [1994,eng] 50-3224
- Effects of acidification on plankton biomass in high mountain lakes. Engle, D., et al. [1995,eng] 50-2149
- Effects of nutrient availability on arctic sedge growth. Gebauer, R.L.E., et al. [1995,eng] 50-2540
- Effects of pack ice on Weddell Sea plankton distribution. Kaufmann, R.S., et al. [1995,eng] 50-4160
- Effects of understory alder on forest soil fertility. Wurtz, T.L., [1995,eng] 50-1090
- Endurance of arctic ecosystems in changes in the environment. Golikov, A.N., et al. [1991,rus] 50-1294
- Environment and ecosystems of Novaya Zemlya: the archipelago and shelf. Matishov, G.G., ed. [1995,rus] 50-5145
- Estimates of North American tundra ecosystem biomass. Gilmanov, T.G., et al. [1995,eng] 50-4864
- Estimating ice-active bacterial population on mango leaves. Cazorla, F.M., et al. [1995,eng] 50-1652
- Estimating the mean annual primary production and outflow of organic carbon in Antarctica. Tseitin, V.B., [1995,rus] 50-6321

- Estimation of biomass and other characteristics of boreal forest. Häme, T., et al. [1994,eng] 50-3228
- Estimation of the autochthonous detritus flux through plankton communities of the Kara Sea. Lebedeva, L.P., et al. [1995,eng] 50-3541
- Evolution of the ecosystem and biogeography of seas in the European Arctic. Pavlov, D.S., ed. [1994,rus] 50-3088
- Fall phytoplankton biomass, P-I relationships and primary production in the Weddell Sea. Dower, K.M., et al. [1996,eng] 50-4008
- Fine root production and decomposition on drained peatlands. Finér, L., et al. [1994,eng] 50-3217
- Fingerprinting hydrocarbons in the biological resources of the Exxon Valdez spill area. Bence, A.E., et al. [1995,eng] 50-3916
- Fluxes of nutrients between benthic and planktonic communities in the coastal zone of the Barents Sea. Kuznetsov, L.L., et al. [1995,eng] 50-3606
- Foraminiferal bottom sediment assemblages from West Antarctica. Chang, S.K., et al. [1995,eng] 50-3346
- Forest fire records inferred from Greenland ice core chemistry. Legrand, M., et al. [1996,eng] 50-3447
- Foraminifera in glaciomarine sediments of arctic fjords. Korsun, S.A., et al. [1995,eng] 50-939
- Freshwater impact on Hudson bay ecosystems under sea ice. pt.2. Legendre, L., et al. [1996,eng] 50-4020
- Freshwater impact on Hudson bay ecosystems under sea ice. pt.3. Fortier, L., et al. [1996,eng] 50-4021
- Fungal hyphal length in litter of *Dryas octopetala* in high-arctic polar semi-desert. Svalbard. Robinson, C.H., et al. [1996,eng] 50-4010
- Geographic information system for SILMU and the modelling of soil carbon flows. Alm, J., et al. [1994,eng] 50-3230
- Geographical patterns in the biological productivity of soil-and-vegetation associations. Bazilevich, N.I., [1995,eng] 50-3872
- Growth dynamics and population development in an alpine grassland under elevated CO_2 . Schappi, B., [1996,eng] 50-5779
- Growth responses of an alpine grassland to elevated CO_2 . Schappi, B., et al. [1996,eng] 50-5771
- High resolution study of the platelet ice ecosystem in McMurdo Sound. Arrigo, K.R., et al. [1995,eng] 50-2522
- High-resolution ammonium ice core record covering a complete glacial-interglacial cycle. Fuhrer, K., et al. [1996,eng] 50-3448
- Hydrobiological observations in the Chauskaya Bay of the East Siberian Sea. Gaev, S.I.U., [1991,rus] 50-1314
- Hydrobiological research in the Lena polynya. Gukov, A.I.U., [1995,eng] 50-2089
- Hydrological controls on ecosystem gas exchange in an arctic landscape. Ostendorf, B., et al. [1996,eng] 50-4855
- Ice algae biomass variations around Zhongshan Station. He, J.F., et al. [1995,chi] 50-3642
- Ice-covered temperate lake limnology. Agbeti, M.D., et al. [1995,eng] 50-739
- Ice-edge hydrography between Elephant I. and the South Orkneys, summer 1988-1989. Figueiras, F.G., et al. [1990,spa] 50-5525
- Identification of ice-rafted sediments in Atlantic Ocean bottom cores. Auffret, G.A., et al. [1996,eng] 50-5218
- Impact of climate change on carbon cycle in freshwater ecosystems. Kankaala, P., et al. [1994,eng] 50-3201
- Impact of iceberg scouring on polar benthic habitats. Gunt, J., et al. [1996,eng] 50-6567
- Implications for changes in arctic plant biodiversity from environmental manipulation experiments. Callaghan, T.V., et al. [1995,eng] 50-3897
- Indicators of soil polluted by heavy metals. El'kina, G.I.A., et al. [1994,rus] 50-274
- Individual-based model of alpine plant distributions. Humphries, H.C., et al. [1996,eng] 50-3151
- Influence of ocean dredging on Barents Sea biota. Matishov, G.G., et al. [1995,eng] 50-3062
- Inorganic nutrients in the marginal ice zone of the Bellingshausen Sea in spring. Whitehouse, M.J., et al. [1995,eng] 50-1023
- Insects and freezing. Block, W., [1995,eng] 50-4087
- Inter-annual variability in marine coastal antarctic bacterioplankton. Delille, D., et al. [1996,eng] 50-4006
- International Conference on Global Change and Arctic Terrestrial Ecosystems—recommendations. Arctic Global Change Conference, Oppdal, Norway, Aug. 21-26, 1993. [1993,eng] 50-3331
- Isotope analysis of Arctic Ocean ice algae primary productivity. Hobson, K.A., et al. [1995,eng] 50-3359
- Isotope analysis of Bering Sea Pleistocene sediment variations. Nakatsuka, T., et al. [1995,eng] 50-3002
- Isotope analysis of variable subarctic plant nutrient access. Michelsen, A., et al. [1996,eng] 50-5772
- Krill biomass variations in West Antarctica, 1981-1989. Godlewski, M., [1993,eng] 50-2186
- Land-water interactions: the influence of terrestrial diversity on aquatic ecosystems. Kling, G.W., [1995,eng] 50-3906
- Laptev Sea organic carbon surface sediments. Stein, R., et al. [1995,eng] 50-2097
- Latest Quaternary foraminifers and sediment transport in Perovskiy Canyon, Bering Sea. Starratt, S.W., [1995,eng] 50-3347
- Latitude as a factor in the calculation of primary production. Platt, T., et al. [1995,eng] 50-4129

Biota

Blasting

- Leaf extract allelopathic effects on arctic graminoids. Michelsen, A., et al. [1995,eng] 50-1091
- Level of biomass and chlorophyll content of the plant communities, Arctowski Station. Barcikowski, A., et al. [1989,pol] 50-2923
- Life cycle of *Paralabidocera antarctica* at Showa Station. Tanimura, A., et al. [1996,eng] 50-6414
- Low summer temperatures: a potential mortality factor for high arctic soil microarthropods? Coulson, S.J., et al. [1995,eng] 50-1178
- Marine bacterioplankton and sea ice bacterial seasonal changes. Delille, D., et al. [1996,eng] 50-3869
- Marine ecology of the Laguna San Rafael (southern Chile): ice scour and opportunism. Davenport, J., [1995,eng] 50-1105
- Megabenthic communities in the waters around Svalbard. Piepenburg, D., et al. [1996,eng] 50-6722
- Mesoplankton in the east Kara Sea and the Ob and Yenisey River estuaries. Vinogradov, M.E., et al. [1995,eng] 50-3539
- Mesoplankton of the west Kara Sea and the Baidara Bay. Vinogradov, M.E., et al. [1995,eng] 50-3538
- Metabolism of deep-sea sponges in the Greenland-Norwegian Sea. Witte, U., et al. [1996,eng] 50-6613
- Methanogenesis at low temperatures by microflora of tundra wetland soil. Kotsiurbenko, O.R., et al. [1996,eng] 50-5156
- Microbial ecology of melting Weddell Sea ice. Gleitz, M., et al. [1996,eng] 50-5677
- Microbial responses to nitrogen additions in alpine tundra soil. Fisk, M.C., et al. [1996,eng] 50-6065
- Microbial sea ice ecology at a coastal antarctic site. Archer, S.D., et al. [1996,eng] 50-5456
- Microfaunal response to fertilization of an arctic tundra stream. Rublee, P.A., et al. [1995,eng] 50-870
- Micrometeorological effects on alpine vegetation reproduction. Bergman, P., et al. [1996,eng] 50-5494
- Microorganisms sustaining large animals in seasonally ice-covered seas. Legendre, L., [1996,eng] 50-5907
- Microplankton bloom dynamics in McMurdo Sound, Antarctica. Stoecker, D.K., et al. [1993,eng] 50-3394
- Midge emergence during thaw cycles of a subalpine lake. Sherck, T., et al. [1996,eng] 50-4504
- Modeling decomposition in arctic ecosystems. Moorhead, D.L., et al. [1996,eng] 50-4854
- Modeling forest succession at Glacier Bay. Weishampel, J.F., et al. [1995,eng] 50-3744
- Modeling the heating and melting of sea ice through light absorption by microalgae. Zeebe, R.E., et al. [1996,eng] 50-2844
- Mollusc population dynamics on the antarctic shelf ocean bottom. Brey, T., et al. [1993,eng] 50-3395
- Natural recovery and assisted revegetation in dwarf shrub dominated communities in Greenland. Strandberg, B., [1994,eng] 50-305
- North Atlantic paleoclimatic effects on primary productivity. Versteegh, G.J.M., et al. [1996,eng] 50-6620
- Northern forest plants under the pressure of environmental changes. Laine, K., et al. [1994,eng] 50-3231
- Nutrient cycle in the Bransfield Strait. Wang, Y.H., et al. [1989,chi] 50-6773
- Occurrence of an algal bloom under arctic pack ice. Gradinger, R., [1996,eng] 50-4159
- Occurrence of sub-ice algal aggregations off northeast Greenland. Guit, J., [1995,eng] 50-163
- Oceanographic conditions of Murman coastal biocenoses. Boltsov, V.D., et al. [1995,eng] 50-4138
- On the summer distribution of mesozooplankton in the Nansen Basin, Arctic Ocean. Mumm, N., [1991,ger] 50-3399
- Organic carbon in late Quaternary Arctic Ocean sediments. Schubert, C.J., [1995,ger] 50-2454
- Organic carbon of the Arctic Ocean. Wheeler, P.A., et al. [1996,eng] 50-4212
- Paleoclimatic significance of a new Arctic Ocean foraminiferal fauna. Mullen, M.W., et al. [1995,eng] 50-3349
- Paleoclimatological implications of lacustrine ostracod ecology. Heaton, T.H.E., et al. [1995,eng] 50-2859
- Paleoenvironmental history of a Canadian freshwater lake. Hickman, M., et al. [1996,eng] 50-6696
- Particle fluxes in the Kara Sea and Ob and Yenisey estuaries. Lisitsyn, A.P., et al. [1995,eng] 50-3543
- Particulate organic matter in Terra Nova Bay in summer 1990. Fabiano, M., et al. [1996,eng] 50-3702
- Pelagic bryozoan from Antarctica. Peck, L.S., et al. [1995,eng] 50-1827
- Periphytic diatom assemblages from high arctic ponds. Douglas, M.S.V., et al. [1995,eng] 50-1460
- Phytoplankton biomass and taxonomy around Elephant I. Vilafate, V.E., et al. [1995,eng] 50-1826
- Phytoplankton seasonal bloom shift in Barents Sea ice. Strass, V.H., et al. [1996,eng] 50-6721
- Plankton at the ice-water interface. Delille, D., et al. [1995,eng] 50-165
- Plankton biomass in the Arctic Ocean. Timofeev, S.F., [1995,eng] 50-2086
- Plankton biomass variation in antarctic lakes. Bayliss, P.R., et al. [1995,eng] 50-1336
- Plankton biomass variations in the Bering Sea. Tseitin, V.B., et al. [1994,eng] 50-867
- Plankton blooms as evidence of Holocene climatic fluctuations. Thorsen, T.A., et al. [1995,eng] 50-2860
- Plankton dynamics in the Barents Sea marginal ice zone. Hansen, B., et al. [1996,eng] 50-3528
- Plankton ecosystems in the Norwegian and Greenland Sea. Samtleben, C., et al. [1995,eng] 50-749
- Planktonic communities of melt ponds on the McMurdo Ice Shelf, Antarctica. James, M.R., et al. [1995,eng] 50-1282
- Plant ecology during desertification of an arctic salt marsh. Srivastava, D.S., et al. [1996,eng] 50-4523
- Plant effects on arctic ecosystem biogeochemical processes. Hobbie, S.E., [1995,eng] 50-3901
- Plant form and function in alpine New Guinea. Hnatuk, R.J., [1994,eng] 50-3060
- Plant functional diversity and resource control of primary production in Alaskan arctic tundras. Shaver, G.R., [1995,eng] 50-3900
- Pleistocene foraminifera in Arctic Ocean piston cores. Evans, J.R., et al. [1995,eng] 50-3348
- Population biology of Mount Kenya lobelias. Young, T.P., [1994,eng] 50-3057
- Population biology of *Senecio keniodendron* (Asteraceae)- and Afroalpine giant rosette plant. Smith, A.P., et al. [1994,eng] 50-3058
- Population dynamics of a Hawaiian alpine rosette plant. Rundel, P.W., et al. [1994,eng] 50-3059
- Primary production and chlorophyll in the Kara Sea in September 1993. Vederikov, V.I., et al. [1995,eng] 50-3536
- Primary productivity and microbial variations in the Chukchi Sea. Coa, G.F., et al. [1996,eng] 50-5457
- Radionucleid distribution in the marginal ice zone in the Bellingshausen Sea. Shimmield, G.B., et al. [1995,eng] 50-1029
- Relation between distribution of phytoplankton and sea water stability. Su, Y.F., [1989,chi] 50-6767
- Relationship between water content and frost tolerance in shoots of hardwood seedlings. Calmé, S., et al. [1996,eng] 50-3296
- Role of above-ground biomass in carbon cycling in drained peatland ecosystems. Laiho, R., et al. [1994,eng] 50-3216
- Rotifers from the Canadian High Arctic (Devon Island, Northwest Territories). De Smet, W.H., et al. [1995,eng] 50-4162
- Satellite radar detection of Alaskan forest ecosystem types. Harrell, P.A., et al. [1995,eng] 50-3493
- Seasonal radar backscatter variation from boreal forests. Pulliainen, J.T., et al. [1996,eng] 50-4765
- Seasonal variations in antarctic sea ice brine chemistry. Gleitz, M., et al. [1995,eng] 50-1117
- Sediment-based carbon nutrition in tropical alpine *Isotetes*. Keeley, J.E., et al. [1994,eng] 50-3052
- Shoreline ecology program following the Exxon Valdez oil spill, pt.3. Gilfillan, E.S., et al. [1995,eng] 50-3925
- Shoreline impacts in the Gulf of Alaska region following the Exxon Valdez oil spill. Gilfillan, E.S., et al. [1995,eng] 50-3926
- Snow algae microbiology related to ultraviolet radiation effects. Thomas, W.H., et al. [1995,eng] 50-2814
- Soil nutrient dynamics in East African alpine ecosystems. Rehder, H., [1994,eng] 50-3055
- Southern ocean Pleistocene water mass circulation variations. Diester-Haass, L., et al. [1996,eng] 50-3389
- Sphagnum photosynthesis and primary production in arctic Alaska. Murray, K.J., [1994,eng] 50-689
- Spring-bloom time-series at the Bering Sea ice edge pt.1. Niebauer, H.J., et al. [1995,eng] 50-1031
- Stability of M_{γ} critical latitude in the Barents Sea. Furevik, T., et al. [1996,eng] 50-5262
- State of high Arctic shallow ecosystems in Franz Josef Land. Averintsev, V.G., [1991,rus] 50-1296
- Status of a Weddell Sea foraminifer. Berberich, D., [1996,ger] 50-3867
- Study of Bering Sea primary productivity. Sapozhnikov, V.V., et al. [1995,eng] 50-6687
- Study of the calcareous microfauna from Laptev Sea sediments. Bauch, H.A., et al. [1995,eng] 50-2102
- Summer phytoplankton bloom under fast ice around Showa Station. Odate, T., et al. [1996,eng] 50-6037
- Svalbard—field excursion in arctic marine biology, June 5-14, 1995. Weissenberger, J., ed. et al. [1995,eng] 50-1554
- Swedish forest production losses due to summer frost. Verwijst, T., et al. [1996,eng] 50-6753
- Symposium on Environmental Toxicology and Risk Assessment, 3rd, Atlanta, GA, Apr. 26-28, 1993. Exxon Valdez oil spill: fate and effects in Alaska waters. [1995,eng] 50-3914
- Tardigrade of the arctic tundra with descriptions of two new species. Maucci, W., [1996,eng] 50-5293
- Tardigrade of the Taimyr peninsula with descriptions of two new species. Biserov, V.I., [1996,eng] 50-5294
- Taxonomic notes on recent benthic Foraminifera from Nansen Basin, Arctic Ocean. Wollenburg, J., [1992,ger] 50-3334
- Temperature elevation effects on arctic soil insects. Coulson, S.J., et al. [1996,eng] 50-3529
- Tibetan alpine ecosystem response to climatic changes. Zhang, Y.Q., et al. [1996,eng] 50-5495
- Treeline/midge correlation, Northwest Territories, Canada. Walker, I.R., et al. [1995,eng] 50-3326
- Trophic structure of the benthos of the Lena polynya. Gukov, A.I.U., [1995,eng] 50-2090
- Tropical alpine ecology: progress and priorities. Rundel, P.W., et al. [1994,eng] 50-3061
- Tropical alpine environments—plant form and function. Rundel, P.W., ed. et al. [1994,eng] 50-3043
- Tussock grass community in a Himalayan alpine grassland. Rikhiari, H.C., et al. [1994,eng] 50-5428
- Ultraviolet inhibition of carbon fixation in phytoplankton. Boucher, N., et al. [1994,eng] 50-4245
- Use of mussels to assess bioavailability of hydrocarbons from the Exxon Valdez oil spill. Shigenaka, G., et al. [1995,eng] 50-3920
- UV-B-tolerance of alpine and arctic *Daphnia*. Zellmer, I.D., [1995,eng] 50-1972
- Variability in nutrient concentrations around Elephant Island, Antarctica, during 1991-1993. Silva S., N., et al. [1995,eng] 50-941
- Vegetation and nutrient pools in an arctic watershed. Hahn, S.C., et al. [1996,eng] 50-4843
- Vegetation dynamics and animal behaviour in an alpine pasture of the Garhwal Himalaya. Sundriyal, R.C., [1994,eng] 50-5427
- Vertical light attenuation by phytoplankton absorption in the Greenland Sea. Dalsøkken, R., et al. [1995,eng] 50-4131
- Vertical particle flux on the shelf off northern Spitsbergen, Norway. Andreassen, I., et al. [1996,eng] 50-6566
- Vitrification of articular cartilage by high-pressure freezing. Studer, D., et al. [1995,eng] 50-6589
- Water chemistry and periphyton in an alpine wetland. Toet, D., [1995,eng] 50-4161
- Water column and sea-ice primary production during Austral spring in the Bellingshausen Sea. Boyd, P.W., et al. [1995,eng] 50-1027
- Water limitations and plant community development in a polar desert. Gold, W.G., et al. [1995,eng] 50-2463
- Willow leaf wax variations in relation to cold survival. Hietala, T., et al. [1995,eng] 50-1649
- Wind forcing of marine primary production in the northern atmospheric low-pressure belt. Sakshaug, E., et al. [1995,eng] 50-4130
- XVI Polar Symposium: Achievements and Prospects of Polish Polar Research. Toruń, Sep. 19-20, 1989. Polar Symposium, 16th, Toruń, Poland, Sep. 19-20, 1989, [1989,pol] 50-2870
- Zooplankton of the Laptev Sea coastal waters. Petrishov, V.V., et al. [1995,eng] 50-2084

Biota See [also]: Ecology

Bitumens

- Alternative road construction for stormwater management in cold climates. Stenmark, C., [1995,eng] 50-2532
- Asphaltic compositions and uses therefor. Long, H.W., [1995,eng] 50-3465
- Bituminous surface treatment (BST) of northern highways. MacLeod, D.R., et al. [1996,eng] 50-6184
- Characteristics of bituminoids of dispersed organic matter in permafrost and sub-cryogenic deposits. Tsarev, V.P., et al. [1989,rus] 50-2258
- Dispersion-by-chemical-reaction technology to stabilize asphalt tar. Brar, G.S., et al. [1995,eng] 50-727
- Effects of steam quality on cyclic steam stimulation at Cold Lake, Alberta. Ho, D.W., et al. [1991,eng] 50-1703
- Evaluation of cold mixes for winter pothole repair. Prowell, B.D., et al. [1995,eng] 50-2792
- Fatigue criteria for asphalt pavements. Laboratory and field criteria. Committee 34. Wiman, L.G., ed. [1996,swe] 50-5603
- Geochemistry of niveo-eolian sediments in Spitsbergen. Gornik, A., et al. [1993,eng] 50-2200
- Material properties, specifications and testing for pavements in cold regions. Chamberlain, E.J., et al. [1996,eng] 50-6195
- Petroleum-producing sequences in the Phanerozoic deposits of the arctic islands. Daniushevskaia, A.I., [1996,eng] 50-5704
- Tests of asphalt pavements with improved drainage in cold regions. Toya, K., et al. [1995,jpn] 50-6801

Bituminous concretes

- Aging and low-temperature cracking of asphalt concrete mixture. Klierer, J.E., et al. [1996,eng] 50-6426
- Bituminous pavements: building a bridge between theory and reality. Said, S.F., [1995,swe] 50-949
- Cold recycling of reclaimed asphalt concrete. Test road in Värmland—three years experience. Jacobson, T., [1995,swe] 50-950
- Durability cracking from freeze-thaw in concrete. Janssen, D.J., et al. [1986,eng] 50-2801
- Effect of color and texture on the surface temperature of asphalt concrete pavements. Berg, R.L., [1985,eng] 50-4362
- Effect of frozen ground strength on hardening performance of the Hard Mobile Launcher. Chamberlain, E.J., et al. [1989,eng] 50-3042
- Flame spread over fuel-spilled and/or snow-covered asphalt road. Ishida, H., et al. [1996,eng] 50-4230
- Innovative materials development and testing. Volume 2: pothole repair. Wilson, T.P., et al. [1993,eng] 50-1071
- Low temperature cracking and rutting in asphalt concrete pavements. Vinson, T.S., et al. [1996,eng] 50-6192
- Mechanistic design of asphalt concrete pavements in cold regions. Vinson, T.S., et al. [1996,eng] 50-6191
- Results of black ice inhibiting filler use on asphalt test sections. Arand, W., [1995,ger] 50-2841
- Skid resistance of asphalt concrete pavements. Abe, A., et al. [1994,jpn] 50-2830
- Thermal stress measurements in asphalt concrete. Janoo, V.C., et al. [1993,eng] 50-760
- Wear resistant concrete for pavements. Pedersen, N., [1988,eng] 50-4227

Blasting

- Blasting frozen iron ore at Knob Lake. Lang, L.C., [1966,eng] 50-5805
- Churchill Falls development. Canadian Industries Limited. Explosives Technical Marketing Services, [1971,eng] 50-5738

Blowing snow

- Composite report on drilling and blasting of permafrost at Ferri-man Mine. Lang, L.C., [1964.eng] 50-5762
Disposal of drilling wastes in permafrost, Prudhoe Bay, Alaska. Hansen, P., et al., [1996.eng] 50-6134
Driving the diversion tunnel at Manic 3. Canadian Industries Limited. Explosives Technical Marketing Services, [1972.eng] 50-5737
Explosives in frozen ground. Roberts, A., [1971.eng] 50-5763
Feasibility study of foxhole excavation by compressed gas blast-ing. Mellor, M., et al., [1971.eng] 50-5757
Features of borehole blasting excavation of placers in the Far North. Dobrovolskii, G.N., et al., [1992.rus] 50-802
Improvements in and relating to emulsion explosives. Cechan-ski, M., [1993.eng] 50-2237
Integrated system for artificial avalanche control. Gubler, H., [1995.eng] 50-4671
Mechanism of breaking up a bench and optimizing the param-eters of borehole-blasting excavation. Mikhailov, A.G., [1992.rus] 50-804
New permafrost blasting method developed at Asbestos Hill. Lang, L.C., [1976.eng] 50-5749
Physical-technical problems in the development of deposits in the North. Zarovniaev, B.N., ed., [1992.rus] 50-793
Problems of borehole-blasting excavation in open pit mining. Zarovniaev, B.N., [1992.rus] 50-801
Results of a survey on gas avalanche triggers (GAZEX). Rapin, F., et al., [1995.fre] 50-4670
Study of blast action from extended explosive charges in frozen cohesive rocks. Kiprianov, G.O., et al., [1992.rus] 50-803
See [also]: Explosion effects; Ice blasting

Blowing snow

- Accuracy of Tretyakov precipitation gauge: result of WMO intercomparison. Yang, D.Q., et al., [1995.eng] 50-3115
Accuracy of Tretyakov precipitation gauge: result of WMO intercomparison. Yang, D.Q., et al., [1995.eng] 50-6044
Behavior of vehicles driven in blowing snow. Fukuzawa, Y., et al., [1994.jpn] 50-2826
Computer modeling of avalanche triggering by wind. Sivardiere, F., et al., [1995.eng] 50-1064
Contrast between natural and simulated snowdrift experiments. Naaim-Bouvet, F., [1995.eng] 50-1063
Current status of snow countermeasures on roads in the Soya district. Chiduru, Y., et al., [1995.jpn] 50-6797
Drifted snow affects momentum exchange over sea ice. Andreas, E.L., et al., [1994.eng] 50-2220
Effects of roof size on snow loads. Irwin, P.A., et al., [1995.eng] 50-3010
Electrification of blowing snow. Latham, J., et al., [1965.eng] 50-3947
Electrification of snowstorms. Latham, J., et al., [1964.eng] 50-3938
Estimating visibility on roads in snow by video. Ishimoto, K., et al., [1995.jpn] 50-6800
For the control of blowing snow (I)—structure of blowing snow. Takeuchi, M., [1996.jpn] 50-4930
Interaction of katabatic winds and the formation of blue-ice areas in East Antarctica. Van den Broeke, M.R., et al., [1995.eng] 50-459
Landforms associated with Pleistocene glaciation in Ireland. Wilson, P., et al., [1995.eng] 50-5486
Limits of wind-tunnel modeling of snow accumulations. Naaim-Bouvet, F., [1995.eng] 50-4667
Measurements of powder snow avalanche—nature. Nishimura, K., et al., [1995.eng] 50-1058
Measurements of powder snow avalanches—laboratory. Keller, S., [1995.eng] 50-1059
Particle concentration of snow transported by wind. Martinez, H., et al., [1995.fre] 50-4643
Poles spaced along the road with overhead reflectors as lane markers in snow. Hirasawa, H., et al., [1994.jpn] 50-2837
Profiles of particle characteristics in blowing snow. Naaim, M., et al., [1995.eng] 50-1062
PROTEON—a model for local forecasting of blowing snow. Guyomarch, G., et al., [1995.fre] 50-4654
Snow fences in Hokkaido to improve visibility. Fukuzawa, Y., et al., [1995.jpn] 50-6799
Snow-drift modelling and control. Ring, S.L., [1991.eng] 50-4906
Spatial distribution of snow chemical load at the tundra-taiga transition. Pomeroy, J.W., et al., [1995.eng] 50-2412
Wind tunnel experiments on snowbreaks for Hokkaido high-ways. Sasaki, M., et al., [1995.jpn] 50-6798
See [also]: Snowdrifts

Boats

See [also]: Ships

Bogs

See [also]: Swamps

Bolivia

- Quaternary glacial in the Andes. Heine, K., [1995.eng] 50-4837

Bolivia—Andes Mountains

- Solifluction in the Swiss Alps and Bolivia. Graf, K., [1993.eng] 50-838

Bombing

- Manual of ice protection. Sipos, B., ed., [1973.hun] 50-443

Booms (equipment)

See [also]: Ice booms

Borehole instruments

- Borehole penetration and expansion devices for ice testing. Ladanyi, B., [1996.eng] 50-5048

- Development of the original ice borehole jack. Masterson, D.M., et al., [1996.eng] 50-5051
Hot water drilling in antarctic ice for neutrino detectors. Koci, B.R., et al., [1996.eng] 50-6467
Interpretation of field measurements for ice engineering applica-tions. Gold, L.W., [1996.eng] 50-5050
Interpretation of in situ borehole ice strength measurement tests. Masterson, D.M., [1996.eng] 50-5049

Boreholes

- Analysis of return drilling fluids in Prudhoe Bay oil wells. Fam-brough, J.D., et al., [1991.eng] 50-1714
Anisotropy coefficient of the electrical resistivity of frozen ground. Velikin, S.A., et al., [1995.rus] 50-2512
Applicability of Soviet arctic mining technology to northern America. Skudrzyk, F.J., [1991.eng] 50-1743
Arctic tool cuts teeth on gloryhole. [1987.eng] 50-4288
Assessing frost damage in compacted clay liners. Benson, C.H., et al., [1995.eng] 50-1133
Borehole method of determining the ice content and thermal properties of dispersed rocks. Rashkin, A.V., [1993.rus] 50-128
Borehole video analysis of subglacial flow and structure. Harper, J.T., et al., [1995.eng] 50-1100
Challenge of West Sak heavy oil: analysis of an innovative approach. Gondouin, M., et al., [1991.eng] 50-1713
Development of the middle and lower course of the Weser River during the Late Pleistocene. Meinke, K., [1995.eng] 50-2746

- Drilling smaller surface holes results in substantial cost savings. Kravtzie, T.E., et al., [1991.eng] 50-1739
Evaluation of vacuum-insulated tubing for paraffin control at Norman Wells. Purdy, I.L., et al., [1991.eng] 50-1727
Evolving description of a fractured carbonate reservoir: the Lis-burne Field, Prudhoe Bay, Alaska. Missman, R.A., et al., [1991.eng] 50-1755
Features of borehole blasting excavation of placers in the Far North. Dobrovolskii, G.N., et al., [1992.rus] 50-802
Geophysical and laboratory methods for studying the mechani-cal characteristics of permafrost. Mamzelev, A.P., [1996.rus] 50-6833
Glacier geophysics at Taylor Dome: year 4. Waddington, E.D., et al., [1994.eng] 50-1899
Greenland paleotemperatures derived from ice core isotope pro-files. Johnsen, S.J., et al., [1995.eng] 50-2027
Handling practice effects on soil sample chemistry. Hewitt, A.D., [1996.eng] 50-5962
Holocene evolution of a stretch of an eastern Italian alpine val-ley. Friz, C., et al., [1995.eng] 50-6697
Hot water drilling in antarctic ice for neutrino detectors. Koci, B.R., et al., [1996.eng] 50-6467
Hydraulic mining of permafrost placers by boreholes. Khulev, A.S., [1991.eng] 50-1716
Improvements in and relating to emulsion explosives. Cechan-ski, M., [1993.eng] 50-2237
Intrapermafrost gas hydrates, Mackenzie Delta. Dallimore, S.R., et al., [1995.eng] 50-560
Isotopic calibration of Canadian arctic climatic change records. Beltrami, H., et al., [1995.eng] 50-3682
Large Arctic temperature change in the Holocene. Cuffey, K.M., et al., [1995.eng] 50-629
Large-diameter glory hole drilling: the evolution from 12- to 20-ft diameter. Shields, R.G., [1991.eng] 50-1738
Lost circulation material usage in coiled tubing remedial cementing at Prudhoe Bay. Krause, R.E., [1991.eng] 50-1706

- Major palaeohydrographic changes in alpine foreland during the Pliocene-Pleistocene. Petit, C., et al., [1996.eng] 50-6538
Mechanism of breaking up a bench and optimizing the param-eters of borehole-blasting excavation. Mikhailov, A.G., [1992.rus] 50-804
Method of calculating the sensitivity and instrument accuracy of borehole temperature equipment. Pakulin, V.A., [1983.rus] 50-317
Method of excavating in frozen ground. Mukhametdinov, Kh.K., et al., [1992.rus] 50-1944
Petroleum-producing sequences in the Phanerozoic deposits of the arctic islands. Danushevskaya, A.I., [1996.eng] 50-5704
Probe method for interstitial soil water sampling. Harrison, W.D., et al., [1981.eng] 50-3063
Problems of borehole-blasting excavation in open pit mining. Zarovniaev, B.N., [1992.rus] 50-801
Prudhoe Bay field, Alaska. waterflood injection water quality and remedial treatment study. Hsi, C.D., et al., [1991.eng] 50-1700

- Recent climatic trend and thermal response of permafrost in Sal-luit, northern Quebec, Canada. Wang, B.L., et al., [1996.eng] 50-6699
Shallow ice coring and borehole casing at Dome Fuji Station, East Antarctica. Motoyama, H., et al., [1995.eng] 50-1694
Statistical evaluation of glacier boreholes as indicators of basal drainage systems. Smart, C.C., [1996.eng] 50-6089
Subglacial hydrology of a Swiss glacier. Hubbard, B.P., et al., [1995.eng] 50-1878
Subglacial meltwater composition sampled through boreholes. Lamb, H.R., et al., [1995.eng] 50-2433
Temperature distribution in Collins Ice Cap, King George I. Han, J.K., et al., [1995.eng] 50-3615
Thickness and structural characteristics of the cryolithozone in northwest Siberia. Agalakov, S.E., [1996.rus] 50-6358
Thixotropic, crosslinking polymer/borate/salt plug: development and application. Powell, J.W., et al., [1991.eng] 50-1707

- Wellbore multiphase-flow correlation for the eastern operating area of Prudhoe Bay. Bradley, D.A., [1991.eng] 50-1728
World Oil's handbook of arctic well completions. Goodman, M.A., [1978.eng] 50-2057

Boring

See [also]: Drilling

Bosnia-Herzegovina

- Engineers in Bosnia: an overview. Treleven, D.L., [1996.eng] 50-5144

- Techniques and procedures for route clearance. Schneek, W.C., Jr., et al., [1996.eng] 50-5143

Botany

See [also]: Geobotanical interpretation; Paleobotany; Plants (botany); Vegetation

Bothnia, Bay

- Nutrient and persistent pollutant deposition on the Bothnian Bay ice and snow fields. Rahm, L., et al., [1995.eng] 50-1650
Use of ERS-1 SAR data in numerical sea ice modeling. Lep-piranta, M., et al., [1992.eng] 50-222

Bothnia, Gulf

- Research concerning ice conditions in fairways—Swedish activi-ties. Lindmark, R., et al., [1984.eng] 50-3165

Bottom friction

See [also]: Basal sliding

Bottom ice

- Basal ice facies and their formation in the western Alps. Hub-bard, B., et al., [1995.eng] 50-2805
Case for cold-base continental ice sheets—a transient thermal model. Heine, J.T., et al., [1996.eng] 50-4890
Characteristics of basal ice at Engabreen, northern Norway. Jan-sson, P., et al., [1996.eng] 50-6248
Microbial sea ice ecology at a coastal antarctic site. Archer, S.D., et al., [1996.eng] 50-5456
Numerical simulation of river ice processes. Shen, H.T., et al., [1995.eng] 50-355
On the sedimentological character of alpine basal ice facies. Hubbard, B., et al., [1996.eng] 50-6259
Relevance of glacial bed debris to glacial mechanics. Gow, A.J., et al., [1996.eng] 50-6251
Subglacial ice accretion in an Alaskan glacier. Strasser, J.C., et al., [1996.eng] 50-6250
Thermal regime of Holocene Greenland ice sheet moraine for-mation. Van Tatenhove, F.G.M., et al., [1996.eng] 50-5582

Bottom sediment

- Aluminum anodes used in cold saline environments. Schrieber, C.F., [1996.eng] 50-5955
Are arctic soft-sediment macrobenthic communities impover-ish-ed. Kendall, M.A., [1996.eng] 50-6720
Arsenic pollutants in Pechora Sea sediments. Loring, D.H., et al., [1995.eng] 50-1829
Atlantic Ocean sedimentary evidence for Pleistocene ice rafting. Robinson, S.G., et al., [1995.eng] 50-1110
Basic characteristics and paleoclimatic evolution of Qarhan Salt Lake. Chen, K.Z., et al., [1986.chi] 50-1984
Benthic foraminiferal assemblages and sea ice drift in the Arctic Ocean. Wollenburg, J., [1995.ger] 50-2443
Benthic sediment hydrocarbon sources following the Exxon Val-dez oil spill. Page, D.S., et al., [1995.eng] 50-3915
Benthic-pelagic coupling in the Greenland-Norwegian Sea and its effect on the geological record. Graf, G., et al., [1995.eng] 50-747
Biogenic composition of ice-rafted debris in Atlantic Ocean bot-tom sediment. van Krevel, S.A., et al., [1996.eng] 50-5219
Biogeochemistry of sediment diagenesis at Kara Sea-Yenisey River boundary layer. Lein, A.I.U., et al., [1995.eng] 50-3535
Bottom sediment chemical composition of the Kara Sea and estuaries. Gurvich, E.G., et al., [1995.eng] 50-3545
Buried loess in the Bohai Sea bottom and exposed along the coast. Liu, J.P., et al., [1995.chi] 50-4125
Cenozoic Northern Hemisphere glaciations. Thiede, J., et al., [1995.eng] 50-5240
Cenozoic shelf erosion of the Barents Sea margin. Fiedler, A., et al., [1996.eng] 50-5309
Characteristics of the geocryological conditions in shallow water areas in the cryolithozone. Buldovich, S.N., [1996.rus] 50-6389
Chemistry of salt minerals and their depositional environment in the Qaidam Basin. Dong, J.H., [1986.chi] 50-1988
Clastic sediment features in the sea area adjacent to the South Shetland Islands. Feng, Y.J., et al., [1989.chi] 50-6783
Clay mineral signature of the NW Atlantic Boundary Undercur-rent. Fagel, N., et al., [1996.eng] 50-4822
Clay minerals as sediment source indicators, Russian Arctic. Naidu, A.S., et al., [1995.eng] 50-1120
Comparative characteristics of polychaete taxocenoses in Pevek Strait, Chaun Bay, and Long Strait. Gagaev, S.I.U., [1995.eng] 50-2534
Comparative study of bottom sediment pollution in Lianyungang and Vladivostok harbors. Tkalin, A.V., [1995.eng] 50-5063
Composition of clay mineral associations in bottom sediments of the Arctic Ocean. Levitan, M.A., et al., [1995.rus] 50-3768
Correlation of Cenozoic dinoflagellate and pollen records. Hub-bard, R.N.L.B., et al., [1994.eng] 50-897
Depositional environment of the Laptev Sea shelf. Nürnberg, D., et al., [1995.eng] 50-940
Dinoflagellate cysts and climate change through the Neogene. Harland, R., [1994.eng] 50-899
Dispersal of metal-contaminated sediments in an arctic river. Sear, D., et al., [1996.eng] 50-6516

Bottom topography

Bottom topography

- Distribution and biomass of Greenland shelf epibenthic megafauna. Piepenburg, D., et al. [1996,eng] 50-5045
- Drill cores from Qarhan Salt Lake. Yang, S.X., [1992,chi] 50-1488
- Dynamics of heat exchange between sediment and water in a lake. Fang, X., et al. [1996,eng] 50-5970
- Early Holocene environment on Bjørnøya from lake sediments. Wohlfarth, B., et al. [1995,eng] 50-4721
- Effect of aging on the penetration resistance of sands. Joshi, R.C., et al. [1995,eng] 50-1823
- Effect of oil pollution on the ecosystems of Kola Bay. Sakulina, M.V., et al. [1991,rus] 50-1320
- Effects of moraine-bank sediment budgets on valley glacier stability. Hunter, L.E., et al. [1996,eng] 50-6263
- Effects of the Exxon Valdez oil spill on subtidal sediments in bays. Page, D.S., et al. [1996,eng] 50-5563
- Eolian dust in deep sea sediments from arctic pack ice. Pirman, S., et al. [1989,eng] 50-5408
- Evidence for Heinrich layers off Portugal (Tore Seamount: 39°N, 12°W). Lebreiro, S.M., et al. [1996,eng] 50-5220
- Evidence of Holocene sea level rise from Nova Scotian bottom sediments. Scott, D.B., et al. [1995,eng] 50-4528
- Features of potash sedimentation in the upper salt layer (S₂) in the Qarhan Salt Lake. Li, B.X., et al. [1992,chi] 50-1487
- Ferromanganese nodules of the Kara Sea. Bogdanov, I.U.A., et al. [1995,eng] 50-3547
- Flux and preservation of organic carbon in Baffin Island fjords. Syvitski, J.P.M., et al. [1990,eng] 50-924
- Fluxes of nutrients between benthic and planktic communities in the coastal zone of the Barents Sea. Kuznetsov, L.L., et al. [1995,eng] 50-3606
- Foraminiferal bottom sediment assemblages from West Antarctica. Chang, S.K., et al. [1995,eng] 50-3346
- Foraminifera in glaciomarine sediments of arctic fjords. Korsun, S.A., et al. [1995,eng] 50-939
- Fossilization potential of arctic fjord and continental shelf benthic macrofaunas. Aitken, A.E., [1990,eng] 50-923
- Gamma emitters in the Barents Sea area. Matishov, D.G., et al. [1993,eng] 50-2191
- Geochemical analyses of Exxon Valdez oil spill. Bence, A.E., et al. [1996,eng] 50-6339
- Geochemical evolution and paleoclimatology of a salt lake in the Qaidam Basin. Han, F.Q., et al. [1995,chi] 50-4126
- Geometry and genesis of the glacialic sediments in the southern Barents Sea. Vorren, T.O., et al. [1990,eng] 50-928
- Glacial geomorphic features in the northern Barents Sea. Solheim, A., et al. [1990,eng] 50-927
- Glacial influence on offshore Norwegian sediment properties. Sæmø, J., et al. [1996,eng] 50-5320
- Glacially-fed North Sea Quaternary sedimentation. King, E.L., et al. [1996,eng] 50-4877
- Glacially-influenced sedimentation on the Hebridean slope. Stoker, M.S., [1990,eng] 50-933
- Glacially-influenced Yakutat Formation on Middleton I. Eyles, C.H., et al. [1990,eng] 50-934
- Glacier fluctuations and sediment yields in Glacier Bay. Cai, J.K., et al. [1995,eng] 50-3733
- Glaciomarine sediments from the Celtic Sea. Scourse, J.D., et al. [1990,eng] 50-932
- Glaciolacustrine environments. Ashley, G.M., [1995,eng] 50-3593
- Global environmental change: the northern North Atlantic. Schäfer, P., et al. [1995,eng] 50-745
- Ground-line sedimentation at the Mackay Glacier Tongue. Dawber, M., et al. [1994,eng] 50-1897
- Grounding line and mass balance effects on glacier stability. Hunter, L.E., [1994,eng] 50-694
- Holocene sediments of the Russian east-arctic seas. Iashin, D.S., et al. [1995,eng] 50-2104
- Hudson Bay-Hudson Strait jökulhlaups and Heinrich events: a hypothesis. Johnson, R.G., et al. [1995,eng] 50-354
- Ice drift reconstructions from ice rafted coal fragments. Bischof, J., et al. [1990,eng] 50-926
- Ice rafting history from the Spitsbergen ice cap over the last 200 kyr. Lloyd, J.M., et al. [1996,eng] 50-5224
- Ice rafting sources for Younger Dryas detrital carbonate in the North Atlantic. Andrews, J.T., et al. [1995,eng] 50-1564
- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., [1995,eng] 50-2480
- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., et al. [1995,eng] 50-4039
- Ice-proximal sediment dynamics in Glacier Bay. Hunter, L.E., et al. [1995,eng] 50-3735
- Ice-rafted tephra sedimentation of the North Atlantic. Lacasse, C., et al. [1996,eng] 50-4140
- Iceberg sediment deposits in a Greenland glaciomarine setting. Syvitski, J.P.M., et al. [1996,eng] 50-5319
- Identification of ice-rafted sediments in Atlantic Ocean bottom cores. Auffret, G.A., et al. [1996,eng] 50-5218
- Integrated analysis of oil hydrocarbons in a marine environment and in the fat of animals. Khesina, A.I.A., et al. [1991,rus] 50-1316
- Interference fringes from Bering Sea sonar images. Huggert, Q.J., et al. [1992,eng] 50-4250
- Isotope tracking of Pleistocene ice-rafted debris. Gwiazda, R.H., et al. [1996,eng] 50-4399
- Isotopic chronologies of Chukchi Sea continental shelf sediment fluxes. Baskaran, M., et al. [1995,eng] 50-1805
- Lake Erie ice scour study. Lake, K., [1991,eng] 50-491
- Late Eocene-Oligocene dinoflagellate provincialism in the North Atlantic Ocean. Damassa, S.P., et al. [1994,eng] 50-898
- Late Quaternary flux of eolian dust to the pelagic ocean. Rea, D.K., et al. [1994,eng] 50-1242
- Late Quaternary paleoceanography of the mid- to outer continental shelf, East Greenland. Williams, K.M., et al. [1995,eng] 50-2810
- Late Younger Dryas to Holocene paleoenvironments of the southern Kattegat, Scandinavia. Conradsen, K., [1995,eng] 50-2861
- Latest Quaternary foraminifers and sediment transport in Perovets Canyon, Bering Sea. Starratt, S.W., [1995,eng] 50-3347
- Levels of cesium-137 in bottom sediments of the Laptev Sea. Matishov, G.G., et al. [1995,rus] 50-4109
- Linking physical property records of Quaternary sediments to Heinrich events. Chi, J., et al. [1996,eng] 50-5221
- Lipid geochemistry of the Kara Sea bottom sediments. Beliaeva, A.N., et al. [1996,eng] 50-4867
- Lithium and boron geochemistry of salt lakes in the Qaidam Basin. Zheng, X.Y., [1986,chi] 50-1992
- Marine clay deposits in ice water around the South Shetlands. Zhou, F.G., et al. [1989,chi] 50-6781
- Marine glacial deposition around the South Shetland Islands. Huang, H.Y., et al. [1989,chi] 50-6784
- Marine sedimentation rates as evidence of continental glaciation. Goldschmidt, P.M., [1995,eng] 50-1828
- Measurement of seismo-acoustic ocean-bottom properties in the high Arctic. Dosso, S.E., et al. [1995,eng] 50-1837
- Model of shoreward movement of grounded lake ice. Sasaki, T., et al. [1995,eng] 50-3329
- Modern glaciomarine environments. Powell, R.D., et al. [1995,eng] 50-3594
- Monitoring Termination II at high latitude: anomalies in the planktic foraminiferal record. Bauch, H.A., [1996,eng] 50-5223
- Nearshore geotechnical and environmental properties in arctic regions. Clausner, J.E., et al. [1978,eng] 50-3941
- North Atlantic paleoclimatic effects on primary productivity. Versteegh, G.J.M., et al. [1996,eng] 50-6620
- Observations of anomalous oceanic crust in the Canada Basin, Arctic Ocean. Jackson, H.R., et al. [1995,eng] 50-410
- Organic carbon in late Quaternary Arctic Ocean sediments. Schubert, C.J., [1995,ger] 50-2454
- Paleoceanographic import of Norwegian Sea sediment stratigraphy. Rasmussen, T.L., et al. [1996,eng] 50-5222
- Paleoclimate from diatom distribution in a marine core. Zhao, Y.F., [1989,chi] 50-6780
- Paleoclimatic significance of a new Arctic Ocean foraminiferal fauna. Mullen, M.W., et al. [1995,eng] 50-3349
- Paleomagnetic constraints on sedimentation rates in the eastern Arctic Ocean. Schneider, D.A., et al. [1996,eng] 50-6707
- Peculiarities of diatom thanatocenoses formation in the sediments of the Eurasian arctic seas. Poliakova, E.I., [1995,eng] 50-2536
- Plankton blooms as evidence of Holocene climatic fluctuations. Thorsen, E.A., et al. [1995,eng] 50-2860
- Plankton ecosystems in the Norwegian and Greenland Sea. Samlebren, C., et al. [1995,eng] 50-749
- Pleistocene foraminifera in Arctic Ocean piston cores. Evans, J.R., et al. [1995,eng] 50-3348
- Pleistocene glacial history of the Svalbard area. Hebbeln, D., [1992,eng] 50-2558
- Pollen assemblages from a borehole in Dabsan Lake. Du, N.Q., et al. [1986,chi] 50-1986
- Postglacial sedimentation in the Liefdefjord area, NW Spitsbergen. Baumhauer, R., et al. [1994,ger] 50-1581
- Precambrian glaciomarine sedimentation in East Greenland. Moncrieff, A.C.M., et al. [1990,eng] 50-935
- Predicting sediment load of Swiss rivers. Hunziker, R.P., [1995,ger] 50-4173
- Present and early Holocene foraminiferal distribution in eastern Svalbard. Hansen, A., et al. [1995,eng] 50-4718
- Proceedings. China Symposium on Southern Ocean Expedition. 1st. Hangzhou, May, 1988. [1989,chi] 50-6763
- Quaternary record of eastern Svalbard—an overview. Landvik, J.Y., et al. [1995,eng] 50-4711
- Quaternary sedimentary processes and budgets in Orphan Basin, southwestern Labrador Sea. Hiscott, R.N., et al. [1996,eng] 50-4579
- Radiocarbon date list VIII: Canada, Greenland, Iceland, and Antarctica. Manley, W.F., ed. et al. [1996,eng] 50-5927
- Radiocarbon dated common mussels *Mytilus edulis* from eastern Svalbard. Hjort, C., et al. [1995,eng] 50-4719
- Radiolaria biostratigraphy of core S₁₁ in the area northwest of Antarctic Peninsula. Chen, W.B., [1989,chi] 50-6779
- Raw oil and gas bedrock potential of organic matter sediments. Gratskaia, E.V., [1990,rus] 50-4942
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- Research on clay minerals in salt lakes of China. Xu, C., [1993,chi] 50-1850
- Role of cryosols in the accumulation of current bottom sediments of the Arctic Ocean. Levitan, M.A., et al. [1995,rus] 50-4119
- Russian-German cooperation: Laptev Sea system. Kassens, H., ed. et al. [1995,eng] 50-2059
- Salt lakes in Xizang. Zheng, X.Y., et al. [1988,chi] 50-1848
- Salt lakes of Inner Mongolia. Zheng, X.Y., et al. [1992,chi] 50-1849
- Salt lakes of Qaidam Basin. Zhang, P.X., et al. [1987,chi] 50-1845
- Sea floor morphology and glacial history of the Barents Sea. Solheim, A., et al. [1988,eng] 50-887
- Sediment flux along glaciated continental margins. Andrews, J.T., et al. [1994,eng] 50-1241
- Sediment flux from a fjord during glacial periods, Isfjorden, Spitsbergen. Hooke, R. L., et al. [1996,eng] 50-5318
- Sediment reworking by ice gouging in the western Laptev Sea. Lindemann, F., et al. [1995,eng] 50-2096
- Sediment types and sedimentation of the northwestern sea area of the Antarctic Peninsula. Lin, C.Q., et al. [1989,chi] 50-6785
- Sediment yields, lithofacies and mudrock in glaciomarine environments. Cai, J.K., [1994,eng] 50-695
- Sedimentary environment of the Laptev Sea: preliminary results of the TRANSDRIFT II Expedition. Dehn, J., et al. [1995,eng] 50-2100
- Sedimentary model and dynamic process of the Great Wall Bay coast, Antarctica. Wang, X.L., [1989,chi] 50-6782
- Sedimentation and mixing rates of radionuclides in Barents Sea sediments off Novaya Zemlya. Smith, J.N., et al. [1995,eng] 50-4561
- Sedimentation and physical limnology in proglacial Malaspina Lake, southeastern Alaska. Gustavson, T.C., [1975,eng] 50-4817
- Sedimentation in glacier-fed Peyto Lake. Chikita, K., [1992,eng] 50-6642
- Sediments in the Liefdefjord and Woodfjord of Spitsbergen. Kroemer, E.A., et al. [1994,eng] 50-1580
- Seismic reflection results from an ice island over the arctic continental shelf. Cox, T.P., et al. [1990,eng] 50-3763
- Sequence types of Upper Quaternary deposits in the Kara Sea. Levitan, M.A., et al. [1995,eng] 50-3546
- Slope valleys in glaciomarine sediments of the Gulf of Alaska. Carlson, P.R., et al. [1990,eng] 50-922
- Some geological problems regarding salt lakes on the Qinghai-Xizang Plateau. Zhang, P.X., [1986,chi] 50-1985
- Some lithological-geochemical features of modern bottom sediments of the Laptev Sea shelf. Iakovlev, A.V., [1995,eng] 50-2101
- Southern ocean Pleistocene water mass circulation variations. Diester-Haass, L., et al. [1996,eng] 50-3389
- Southwest Pacific paleoceanography and development of the East Antarctic Ice Sheet. Flower, B.P., et al. [1995,eng] 50-2609
- Stability of sublittoral, fine-grained sediments in a subarctic estuary. Amos, C.L., et al. [1996,eng] 50-4044
- Study of the calcareous microfauna from Laptev Sea sediments. Bauch, H.A., et al. [1995,eng] 50-2102
- Subarctic lake pollution by gold mine arsenic effluent. Bright, D.A., et al. [1996,eng] 50-4207
- Suspended sediments and organic carbon in Glacier Bay fjords. Cowan, E.A., [1995,eng] 50-3734
- Trace elements in the Weddell Sea water and sediments in the continental shelf area. Niemistö, L., et al. [1995,eng] 50-1952
- U.S.G.S. Geotechnical Investigation—Beaufort Sea, Alaska, 1979, Vol. I. Bruggers, D.E., et al. [1979,eng] 50-3313
- Unfrozen water content and grain size of Mackenzie Delta core samples. Patterson, D.E., [1994,eng] 50-400
- Use of geosynthetics to prevent waterfowl white phosphorus poisoning. Henry, K.S., et al. [1995,eng] 50-2865
- Vostok ice core deuterium variations over the last two glacial cycles. Waelbroeck, C., et al. [1995,eng] 50-4089
- Bottom topography**
- Antarctic bottom topography and its representation on new bathymetric charts. Marova, N.A., [1993,rus] 50-4509
- Arctic oceanography: the path of North Atlantic Deep Water. [1994,eng] 50-976
- Contemporary volcanoes of Bransfield Rift, West Antarctica. Birkenmajer, K., [1993,eng] 50-2196
- Dispersion of metal-contaminated sediments in an arctic river. Sear, D., et al. [1996,eng] 50-6516
- Distribution of river run-off in the Laptev Sea: the environmental effect. Dmitrenko, I.A., et al. [1995,eng] 50-2077
- Dynamics of the Antarctic Circumpolar Current. Ivchenko, V.O., et al. [1996,eng] 50-5157
- Exploring the Barents Sea polar front. Gawarkiewicz, G., et al. [1996,eng] 50-6672
- Fine resolution numerical model of the Iceland-Faroe front with open boundary conditions. Griffiths, C., [1995,eng] 50-571
- Geometry and genesis of the glaciogenic sediments in the southern Barents Sea. Vorren, T.O., et al. [1990,eng] 50-928
- Geomorphology of the South Kara shelf. Musatov, E.E., et al. [1992,eng] 50-3437
- Glacial geomorphic features in the northern Barents Sea. Solheim, A., et al. [1990,eng] 50-927
- Glacially-influenced sedimentation on the Hebridean slope. Stoker, M.S., [1990,eng] 50-933
- GPS recording of Hells Gate ice shelf tidal responses. Bondesan, A., et al. [1994,eng] 50-3765
- Ground penetrating radar sounding of bedrock under a frozen lake. Davis, J.L., et al. [1992,eng] 50-57
- Helicopter-borne alpine glacier surveys using short pulse radar. Arcone, S.A., et al. [1992,eng] 50-55
- Ice force and scour instrumentation for the White River, Vermont. Zabylansky, L.J., [1996,eng] 50-6073
- Investigation of the general circulation of the Arctic Ocean using an isopycnal model. Holland, D.M., et al. [1996,eng] 50-3822
- Lake Erie ice scour study. Lake, K., [1991,eng] 50-491
- Lake Vostok beneath the antarctic ice sheet—a Russian research proposal. Kaminuma, K., [1995,jpn] 50-3498

Boulders

- Marine ice bottom gouging: some mechanisms and an approach to depth evaluation. Riabinin, V.E., et al. [1995,eng] 50-6314
- Numerical model of flow in ice-covered channel. Yoon, J.Y., et al. [1996,eng] 50-2720
- Numerical simulations of topographic Rossby waves along the East Greenland front. Maslowski, W., [1996,eng] 50-5260
- Oceanographic expedition to the Amundsen and Bellingshausen Seas. Jacobs, S.S., et al. [1994,eng] 50-2225
- Quantification of Barents Sea Pleistocene bottom erosion. Rasmussen, E., et al. [1996,eng] 50-5311
- Sea floor morphology and glacial history of the Barents Sea. Solheim, A., et al. [1988,eng] 50-887
- Sediment reworking by ice gouging in the western Laptev Sea. Lindemann, F., et al. [1995,eng] 50-2096
- Sediments from the southern Weddell Sea. Melles, M., et al. [1995,eng] 50-5442
- Seismic reflection data from the Fram Strait. Joket, W., et al. [1995,eng] 50-2541
- Seismic reflection results from an ice island over the arctic continental shelf. Cox, T.P., et al. [1990,eng] 50-3763
- Slope valleys in glacial marine sediments of the Gulf of Alaska. Carlson, P.R., et al. [1990,eng] 50-922
- Subglacial topography in the Sør Rondane Mountains. Pattyn, F., et al. [1995,eng] 50-660
- Submarine topographical chart around Filchner-Ronne Ice Shelf. Vaughan, D.G., et al. [1995,eng] 50-5443
- Topographic influence on the flow field off Lofoten-Vesterålen. Orvik, K.A., et al. [1995,eng] 50-4133
- See [also]: Ocean bottom

Boulders

See [also]: Rocks

Bound water

See [also]: Hygroscopic water

Boundary layer

- Application of satellite visible band data to high latitude oceans. Ahlén, K., et al. [1989,eng] 50-3934
- Arktis 1993: report on the field phase with examples of measurements. Brümmer, B., ed. [1993,eng] 50-4945
- Biogeochemistry of sediment diagenesis at Kara Sea-Yenisey River boundary layer. Lein, A.I.U., et al. [1995,eng] 50-3535
- Boundary layer characteristics of the continental margin of the western Barents Sea. Thomsen, L., et al. [1994,eng] 50-1245
- Exploring the Barents Sea polar front. Gawarkiewicz, G., et al. [1996,eng] 50-6672
- Formation and evolution of the surface mixed layer and halocline of the Arctic Ocean. Rudels, B., et al. [1996,eng] 50-5261
- Influence of runoff from land on the distribution of hydrologic characteristics of the Kara Sea. Burenkov, V.I., et al. [1995,eng] 50-3531
- Metabolism of deep-sea sponges in the Greenland-Norwegian Sea. Witte, U., et al. [1996,eng] 50-6613
- Periodic auroral events at the high-latitude convection reversal in the 16 MLT region. Sandholt, P.E., et al. [1990,eng] 50-4729
- Physical and geochemical properties across the Atlantic/Pacific water mass front in the southern Canadian Basin. McLaughlin, F.A., et al. [1996,eng] 50-2845
- Propagation of sound above a finite layer of snow. Nicolas, J., et al. [1985,eng] 50-3699
- Real-time operational forecasting on shipboard of the Icelandic-Faeroe frontal variability. Robinson, A.R., et al. [1996,eng] 50-4742
- Selected aspects of the physical oceanography and particle fluxes in fjords of northern Norway. Wassmann, P., et al. [1996,eng] 50-5571
- Thermohaline characteristics of the shelf fronts in the western Bering Sea. Verkhunov, A.V., [1995,eng] 50-2533
- See [also]: Interfaces; Turbulent boundary layer

Boundary value problems

- Analysis of interference effects on surface-impedance mapping of glacier thickness. Thiel, D.V., et al. [1996,eng] 50-4889
- Analytical modeling of glacier dynamics. Bahr, D.B., [1996,eng] 50-5023
- Approaches to mathematical modeling of the steppe-tundra paleo-climate. Gai-Chen, T., [1982,eng] 50-3379
- Computational modelling of brittle ice fragmentation. Tuhkuri, J., [1996,eng] 50-5942
- Giant facets at ice grain boundary grooves. Wilen, W.A., et al. [1995,eng] 50-973
- Heat balance integral method and freezing problems. Lunardini, V.J., [1996,eng] 50-6429
- Oilwell casing downdrag from subsidence at Prudhoe Bay. Nair, K., et al. [1971,eng] 50-4196
- Problem of primary frost heave with frost penetration. Ding, Z.Z., [1995,eng] 50-2162
- Response of a circular ice floe to ocean waves. Meylan, M.H., et al. [1996,eng] 50-5264
- Singularities in simulation of ice sheet-solid impact regime. Darr, D.G., et al. [1995,eng] 50-2163
- Stress interaction between multiple crevasses in glacier ice. Sas-solas, C., et al. [1996,eng] 50-5464

Brakes (motion arresters)

- Drive for a brake system for rail transportation. Rudenko, I.M., et al. [1992,eng] 50-1940

Breakup

See [also]: Ice breakup

Bricks

- Development of methods for assessing the frost resistance of clay bricks. Silvennoinen, K., et al. [1995,eng] 50-951
- Economic expediency of composite insulating bricks for wall structures. Nedavni, O.I., et al. [1995,eng] 50-722
- Predicting brick frost resistance. II. Robinson, G.C., et al. [1995,eng] 50-1961
- Predicting brick frost-resistance. I. Robinson, G.C., et al. [1995,eng] 50-1109

Bridges

- Assessment of the design load of bridge piers constructed in rivers freezing over in winter. Yamauchi, T., et al. [1994,jpn] 50-2835
- Cathodic protection in North America: field results in high and low temperature environments. Bennett, J.E., et al. [1995,eng] 50-2661
- Construction of non-class bridges and sea moorings under the conditions of the European North. Okin, E.I., et al. [1995,eng] 50-3081
- Design of girders for a bridge in Hokkaido subject to snow and wind. Endo, T., et al. [1995,jpn] 50-6807
- Deterioration in concrete bridges at the seashore in cold regions. Shoya, M., et al. [1992,eng] 50-2754
- Development of leading technology in the "MOSTROJ-2" (AOOT "SIBMOST") trust. Karaulov, M.E., [1995,eng] 50-3079
- Device for protecting a bridge from naleds. Dement'ev, V.A., et al. [1992,eng] 50-1923
- Dynamic responses of highway bridge under shock forces of icefloe. Cai, Z.R., et al. [1995,eng] 50-192
- Earthquake shock absorbers for bridges in cold regions. Sato, M., et al. [1993,jpn] 50-2839
- Experimental study on abrasion of various concretes due to ice movement. Itoh, Y., et al. [1992,eng] 50-2762
- Flagship of bridge building in Siberia. Vinogradov, S.N., et al. [1995,eng] 50-3080
- Freeze-thaw durability of lightweight aggregate concretes. Roberts, J.M., [1995,eng] 50-2626
- Freeze-thaw durability testing of oversanded bridge floor concrete. Ouyang, C.S., [1995,eng] 50-4949
- Frost damage of concrete structures in Hokkaido. Yamashita, H., et al. [1995,eng] 50-2662
- Ice force and scour instrumentation for the White River, Vermont. Zabilansky, L.J., [1996,eng] 50-6073
- Moisture cure urethane coatings for bridges in cold wet climates. Brinton, W.J., [1996,eng] 50-5946
- Northumberland Strait bridge: analysis techniques and results. Ghali, A., et al. [1996,eng] 50-5046
- Portable shelter to protect bridges under construction from snow and cold. Kobayashi, Y., et al. [1992,jpn] 50-3134
- Predicting abrasion of bridge piers by ice. Hara, F., et al. [1995,eng] 50-2655
- Protection of arctic bridge crossing by refrigerated foundation. Christopherson, A.B., et al. [1991,eng] 50-1734
- Recent advances in ice interaction and force estimation processes for vertical structures. Arunachalam, A.V.M., [1995,eng] 50-197
- Repair measures for deteriorated abutments and piers due to frost damage. Tsutsumi, Y., et al. [1995,eng] 50-2659
- Steel and steel reinforced concrete spans of modern bridges. Platonov, A.S., et al. [1995,eng] 50-3084
- Study of concrete bridges exposed to deicing salts. Novokoshchenov, V., [1989,eng] 50-4225
- Study on tangential frost heaving forces on the reinforced concrete bridge pile foundation. Dai, H.M., et al. [1989,chi] 50-1362
- Tests clear snow: path for use of liquid anti-icing in northwest. Deep, D., et al. [1995,eng] 50-1954
- West Dock Causeway bridge piers. Christopherson, A.B., et al. [1996,eng] 50-6133
- See [also]: River crossings

Brightness

- Airborne imaging microwave radiometer—part I: radiometric analysis. Collins, M.J., et al. [1996,eng] 50-4763
- Albedo of dirty snow during conditions of melt. Conway, H., et al. [1996,eng] 50-5969
- Algorithm to enhance sea ice concentration estimates from radiometric brightness temperatures. St. Germain, K.M., et al. [1992,eng] 50-3564
- Application of passive microwave retrieval algorithms to monitor global snow cover. Armstrong, R.L., et al. [1992,eng] 50-3562
- Barents Sea ice concentration from SSM/I data. Smith, D.M., [1996,eng] 50-6695
- Detecting and monitoring snow cover variability. Barry, R.G., et al. [1995,eng] 50-3314
- Detecting new-ice in the arctic from multispectral satellite data. Martin, T., et al. [1992,eng] 50-224
- Effects of snowpack grain size on remote sensing of river basins. Josberger, E.G., et al. [1996,eng] 50-4302
- Electric fields and charges near 0°C in stratiform clouds. Shepherd, T.R., et al. [1996,eng] 50-5821
- Evaluation of SMMR satellite-derived snow depth using ground-based measurements. Tait, A., et al. [1996,eng] 50-4016
- Evidence of arctic-wide atmospheric aerosols from DMSP visible imagery. Shine, K.P., et al. [1984,eng] 50-4494
- Improved use of passive microwave data for sea ice detection. Heygster, G.C., et al. [1992,eng] 50-225
- Land surface studies and atmospheric effects by satellite microwave radiometry. Aschbacher, J., [1990,eng] 50-6691

- Low brightness temperatures of Martian polar caps: CO₂ clouds or low surface emissivity? Forget, F., et al. [1995,eng] 50-2120

- Microwave emission from density-stratified antarctic firn at 6 cm wavelength. West, R.D., et al. [1996,eng] 50-4892
- Microwave retrieval algorithm for remote sensing of precipitation. Weng, F., et al. [1992,eng] 50-3566
- Model to retrieve precipitation rate profiles from airborne radar and radiometer measurements. Weinman, J.A., et al. [1992,eng] 50-3571
- Monitoring soil condition in the northern Tibetan Plateau using SSM/I data. Chang, A.T.C., et al. [1996,eng] 50-6692
- Monitoring winter hydrologic characteristics of lakes by microwave radiometry. Bordonoski, G.S., et al. [1995,eng] 50-1402
- Passive microwave snow research in the Canadian High Arctic. Gan, T.Y., [1996,eng] 50-5540
- Sea ice concentrations derived from satellite microwave imagery. Lomax, A.S., et al. [1995,eng] 50-1244
- Snow accumulation rate from synthesis of microwave and altimeter data. Davis, C.H., [1995,eng] 50-162
- Spaceborne radiometric determination of cloud structure. Pierdicca, N., et al. [1996,eng] 50-5683
- Surface-based studies of microwave arctic sea ice signatures during end of summer and early autumn. Darovskikh, A.N., [1995,eng] 50-2065
- Theoretical basis for passive microwave remote sensing of cirrus. Evans, K.F., et al. [1992,eng] 50-3565
- Topographic origin for double-ridge features in visible imagery of ice divides in Antarctica. Goodwin, A.H., et al. [1995,eng] 50-1870
- Warm core in a polar low observed with a satellite microwave sounding unit. Forsythe, J.M., et al. [1996,eng] 50-4186

Brines

- Acid stimulation of Endicott Kekikuk Formation, North Slope, Alaska. Hsi, C.K.D., et al. [1991,eng] 50-1751
- Another look at oil transportation in and from the arctic environment. Marsden, S.S., Jr., et al. [1991,eng] 50-1711
- Carbon acquisition and growth of antarctic sea ice diatoms in closed bottle incubations. Gleitz, M., et al. [1996,eng] 50-5455
- Corrosion of pipeline steels in permafrost. White, W.E., et al. [1996,eng] 50-5954
- Crack nucleation in saline ice with interacting inhomogeneities. Wu, M.S., et al. [1995,eng] 50-1142
- Demonstrating brine water wells and toilets for Deering, Alaska. Lundell, R.H., [1996,eng] 50-6153
- Effect of cryopegs on the temperature and salinity of surrounding permafrost. Anisimova, N.P., [1996,eng] 50-6390
- Effect of sea ice on the salinity of antarctic bottom waters. Toggweiler, J.R., et al. [1995,eng] 50-336
- Exclusion of sodium chloride from ice during freezing. Cragin, J.H., [1995,eng] 50-3131
- Features of potash sedimentation in the upper salt layer (S₄) in the Qarhan Salt Lake. Li, B.X., et al. [1992,chi] 50-1487
- Formation and morphology of ice stalactites observed under deforming lead ice. Perovich, D.K., et al. [1995,eng] 50-452
- Freezing point depression by common salts: implications for corrosion in cold climates. Brass, G.W., [1996,eng] 50-5951
- Manual for highway winter anti-icing practices. Ketcham, S.A., et al. [1996,eng] 50-6060
- Mapping the territory of the Bovanenko gas condensate field. Streletskaia, I.D., et al. [1996,eng] 50-6369
- Marine bacterioplankton and sea ice bacterial seasonal changes. Delille, D., et al. [1996,eng] 50-3869
- Model of ductile behavior of columnar grained sea ice. Zhan, C., et al. [1996,eng] 50-5184
- New deicing tactics: prewet with salt brine [1996,eng] 50-3454
- New salting methods on UK highways. Cruickshank, J., [1996,eng] 50-4366
- Perennially frozen rock as a site for burying industrial wastes. Borisov, V.N., et al. [1996,eng] 50-6824
- Release of brine-enriched shelf water from Storfjord into the Norwegian Sea. Schauer, U., [1995,eng] 50-574
- Reverse osmosis/direct contact freezing system for desalination plants. Madani, A.A., et al. [1989,eng] 50-4611
- Salinity tolerance of planktonic foraminifers in sea ice. Spindler, M., [1996,eng] 50-6035
- Salt lakes in Xizang. Zheng, X.Y., et al. [1988,chi] 50-1848
- Salt lakes of Inner Mongolia. Zheng, X.Y., et al. [1992,chi] 50-1849
- Salt lakes of Qaidam Basin. Zhang, P.X., et al. [1987,chi] 50-1845
- Seasonal variations in antarctic sea ice brine chemistry. Gleitz, M., et al. [1995,eng] 50-1117
- State and salinity of soils in the littoral sections of the Kara Sea. Dubikov, G.I., et al. [1996,eng] 50-6376
- Upward flushing of sea water through first year sea ice. Hudier, E.J.J., et al. [1995,eng] 50-4210
- What you need to know about prewetting deicers. Mergenmeier, A., [1995,eng] 50-3857

Brittleness

- Computational modelling of brittle ice fragmentation. Tuhkuri, J., [1996,eng] 50-5942
- Failure of columnar saline ice under biaxial compression. Schulson, E.M., et al. [1995,eng] 50-2119
- Fracture in the compression of a brittle material—columnar grained ice. Wu, H.C., et al. [1974,eng] 50-3788
- Fracture toughness of freshwater ice—part I: experimental technique and results. Weber, L.J., et al. [1996,eng] 50-5158

Bubbles

- Fracture toughness of freshwater ice—part II: analysis and micrography. Weber, L.J., et al. [1996,eng] 50-5159
- Ice fracture and spalling in ice-structure interaction. Zou, B., et al. [1996,eng] 50-5473
- Mechanical properties of materials at low temperatures. Wigley, D.A., [1968,eng] 50-6049
- Particle model for quasibrittle fracture and application to sea ice. Jirásek, M., et al. [1995,eng] 50-495
- Specifying fracture toughness ranks high in line pipe selection. Kiefner, J.F., et al. [1995,eng] 50-4397
- Structural failure of the *Titanic*. Garzke, W.H., Jr., et al. [1994,eng] 50-5177
- Wing crack models of the brittle compressive failure of ice. Nixon, W.A., [1996,eng] 50-3826
- Bubbles**
- Atmospheric CO₂ and isotopic carbon-13 dioxide in ice-core air bubble. Wahlen, M., [1994,eng] 50-1894
- Atmospheric CO₂ variations inferred from antarctic ice composition. Etheridge, D.M., et al. [1996,eng] 50-3446
- Bubble formation experiments in snow densification. Ishii, S., et al. [1995,eng] 50-3248
- Effect of air bubbles in ice on charge transfer produced by asymmetric rubbing. Latham, J., [1965,eng] 50-3951
- Forecasting service life of frost-penetrated concrete. Fagerlund, G., [1996,eng] 50-4788
- Ice bubbles confirm big chill. Kerr, R.A., [1996,eng] 50-5065
- Ice shelf structure at Maudheim Station. Schytt, V., [1958,eng] 50-6420
- Microcracking during stress-relief of polycrystalline ice formed at high pressure. Meglis, I.L., et al. [1995,eng] 50-774
- New device for the measurement of air content in polar ice. Lipenkov, V.I.A., et al. [1995,eng] 50-462
- On the concentrations of O₂, N₂, and Ar in trapped gases from ice cores. Bender, M., et al. [1995,eng] 50-633
- Recent progress in Vostok ice core analysis studies on ancient air stored in ice cores. Uchida, T., [1995,jpn] 50-992
- Refractive-index measurements of natural air-hydrate crystals in an antarctic ice sheet. Uchida, T., et al. [1995,eng] 50-977
- Spectroscopy of ice clathrate decomposition to air bubbles. Pauer, F., et al. [1996,eng] 50-3067
- See [also]: Gas inclusions
- Bubbling**
- Blowout in Beaufort Sea gas well. [1989,eng] 50-5647
- Bubblers for ice melting. [1996,eng] 50-4182
- On deflecting drifting icebergs. Rieß, I.R., et al. [1995,eng] 50-2945
- Processes affecting the CO₂ concentrations measured in Greenland ice. Anklin, M., et al. [1995,eng] 50-975
- Building**
- See [also]: Construction
- Building codes**
- Effects of roof size on snow loads. Irwin, P.A., et al. [1995,eng] 50-3010
- Research report on snowproofing of houses. Uchida, Y., ed. [1984,jpn] 50-2291
- Study of Alaskan snow loads. Stember, J.A., [1994,eng] 50-370
- See [also]: Design criteria; Specifications
- Building materials**
- See [also]: Construction materials
- Buildings**
- Air conditioning using snow thermal storage in aquifers. Umemiya, H., [1988,jpn] 50-2279
- Antarctic alternative energy summary. Chiang, E., U.S. National Science Foundation. Office of Polar Programs. [1994,eng] 50-4278
- Bare poles: building design for high latitudes. Strub, H., [1996,eng] 50-4963
- Buildings with short piles and ventilated foundations in permafrost. Zhu, L.N., et al. [1995,chi] 50-5625
- Church building foundation retrofit on Saint Lawrence I. Crowther, G.S., [1996,eng] 50-6130
- Comparison of two techniques for R-value calculation, using winter in-situ data. Flanders, S.N., et al. [1995,eng] 50-1979
- Corrosion in Anchorage homes and buildings. Hicks, R.J., [1996,eng] 50-5953
- Design guide for frost-protected shallow foundations. NAHB Research Center. [1994,eng] 50-3579
- Effects of global warming on building construction on permafrost. Khristalev, L.N., [1996,eng] 50-5861
- Energy saving building systems based on advanced hollow core slab technology. Kajava, A., [1984,eng] 50-3160
- Evaluation of the geothermal heat pump installation at Naval Air Station. Patuxent River. Garg, S., et al. [1995,eng] 50-2460
- Foundation heave induced by a subgrade cooling system over permafrost. Scher, R.L., [1991,eng] 50-1737
- Foundation rehabilitation at ADOT/PPF Jim River Maintenance Camp. Rooney, J.W., et al. [1991,eng] 50-1768
- Foundations for permafrost and other problem soils. Vangool, W.J., [1996,eng] 50-6132
- Frost heaving force of heated buildings. Liu, H.X., [1989,chi] 50-1382
- Geocryological conditions of Transbaikalian and engineering-geocryological problems. Shesternyev, D.M., et al. [1993,rus] 50-108
- High-temperature permafrost as building foundation. Sal'nikov, P.I., [1993,rus] 50-109
- Influence of heating on the frozen depth of building foundation. Hong, Y.P., et al. [1989,chi] 50-1383
- Investigation and repair of a terra cotta dome in a cold climate. Ogle, R., et al. [1995,eng] 50-1978
- Laboratory testing of air retarders in metal building panels. Flanders, S.N., et al. [1995,eng] 50-1980
- Lessons from failures in metal-structure buildings and structures in the North; a manual. Kornilov, T.A., et al. [1995,rus] 50-5140
- Microclimate of agricultural buildings—1. Bodrov, V.I., [1995,rus] 50-3442
- Minimum depth for building foundations subject to frost heave. Jiang, H.J., et al. [1989,chi] 50-1381
- Moisture conditions and control in buildings in Fairbanks, Alaska. Adkins, R., [1996,eng] 50-6138
- Possibilities for industrial cooperation concerning district heating technology. Juvonen, O.A., [1984,eng] 50-3161
- Proceedings. International Conference on Engineering and Development in Northern Regions. Sapporo, Japan, Jan. 31-Feb. 2, 1983. [1984,eng] 50-3158
- Relocation of telecommunication facilities at Syowa Station. Takada, K., [1995,jpn] 50-3499
- Steel pipe pile foundations for school building in saline permafrost. Merrill, K.S., et al. [1996,eng] 50-6127
- Study on integrated system design for regional development in snowy regions. [1989,jpn] 50-2039
- Thermal and vapor performance of insulated assemblies. Carlson, A.R., [1996,eng] 50-6139
- See [also]: Houses; Industrial buildings; Portable shelters; Prefabrication; Residential buildings
- Bulgaria**
- Meteorological and snow conditions, avalanches and safety in Bulgarian mountains. Mikhnevski, N., [1995,eng] 50-4665
- Study on thermos curing of concrete under winter conditions in Bulgaria. Valev, V., et al. [1995,eng] 50-2667
- Buoyancy**
- Convective instability influence on freezing time of warm water. Maciejewski, P.K., [1996,eng] 50-4220
- Interaction between multiple line plumes: a model study with applications to leads. Chung, C.Y., et al. [1996,eng] 50-4408
- Large eddy simulation of the turbulent flow in a marine convective boundary layer with snow. Rao, G.S., et al. [1996,eng] 50-3683
- Melting driven thermohaline convection. Bénard, C., et al. [1996,eng] 50-3611
- Response of a research aircraft to icing and evaluation of severity indices. Politovich, M.K., [1996,eng] 50-4406
- Screw anchors economically control pipeline buoyancy in muskeg. Robertson, R., et al. [1995,eng] 50-4003
- Simulation of the mixed-layer circulation in the Arctic Ocean. Holland, D.M., et al. [1996,eng] 50-2843
- Thermal stratification effects near a vertical ice slab in cold water. Kukulka, D.J., et al. [1993,eng] 50-3361
- Tropospheric dehydration by subvisible cirrus clouds. Jensen, E.J., et al. [1996,eng] 50-5287
- Turbulence in the statically unstable oceanic boundary layer under aircraft leads. McPhee, M.G., et al. [1996,eng] 50-4297
- Cables (power lines)**
- See [also]: Power lines; Transmission lines
- Cables (ropes)**
- Effect of icing on the dynamic behaviour of guyed antenna towers. Wahba, Y.M.F., et al. [1996,eng] 50-5378
- Ice formation on the guywires of Hydro-Québec telecommunications towers. Gastonguay, L., et al. [1996,eng] 50-5402
- Towed geophone system for use in snow-covered terrain. King, E.C., et al. [1996,eng] 50-6225
- Calissons**
- How the Arctic's top field will be developed. [1987,eng] 50-4287
- New arctic drilling rig. [1987,eng] 50-4286
- Relation between sea ice loads and arctic offshore structures. Blanchet, D., et al. [1991,eng] 50-1721
- Calcium chloride treatment**
- See [also]: Salting
- Calorimetry**
- See [also]: Temperature measurement
- Calving**
- Antarctic ice sheet melting in the southeast Pacific. Jacobs, S.S., et al. [1996,eng] 50-5458
- Bering glacier resumes its surge. Molnia, B.F., [1995,eng] 50-3356
- Characteristics of tide-water calving at Glacier San Rafael. Chile. Warren, C.R., et al. [1995,eng] 50-450
- Climatic controls on glacier mass balance in Glacier Bay. Hunter, L.E., et al. [1995,eng] 50-3737
- Comments and reply on paper of Venkatesh et al. Marko, J.R., et al. [1995,eng] 50-601
- Drift of the tabular iceberg Filchner 1986A. Skvarca, P., et al. [1993,spa] 50-3552
- Effect of sedimentation on the advance of a fjord-type glacier. Motyka, R.J., et al. [1995,eng] 50-3736
- Effects of moraine-bank sediment budgets on valley glacier stability. Hunter, L.E., et al. [1996,eng] 50-6263
- Evaluation of controls on iceberg-calving glaciers. Wiles, G.C., et al. [1995,eng] 50-3324
- Flux of debris transported by ice at three Alaskan tidewater glaciers. Hunter, L.E., et al. [1996,eng] 50-4897
- Fresh water in Svalbard fjord ecosystems. Węgliński, J.M., et al. [1995,eng] 50-4137
- Glacier mass balances of Taylor Valley. Fountain, A.G., et al. [1994,eng] 50-3870
- Grounding line and mass balance effects on glacier stability. Hunter, L.E., [1994,eng] 50-694
- High basal melt rates in Pine Island Glacier. Jenkins, A., et al. [1994,eng] 50-2227
- Ice rafting sources for Younger Dryas detrital carbonate in the North Atlantic. Andrews, J.T., et al. [1995,eng] 50-1564
- Ice-proximal sediment dynamics in Glacier Bay. Hunter, L.E., et al. [1995,eng] 50-3735
- Iceberg sediment deposits in a Greenland glaciomarine setting. Syvitski, J.P.M., et al. [1996,eng] 50-5319
- Isotope tracking of Pleistocene ice-rafted debris. Gwiazda, R.H., et al. [1996,eng] 50-4399
- Marine ecology of the Laguna San Rafael (southern Chile): ice scour and opportunism. Davenport, J., [1995,eng] 50-1105
- Melting rates of brash ice in Arthur Harbor. Smith, N.D., et al. [1994,eng] 50-2222
- Numerical modelling of ice sheet fluctuation in the Russian Arctic. Siegert, M.J., et al. [1995,eng] 50-1800
- Paleoglacial events on Baffin Island, Labrador Sea. Fillon, R.H., et al. [1981,eng] 50-3621
- Partial disintegration of antarctic ice. Simões, J.C., [1995,por] 50-3936
- Pleistocene glaciomarine isostatic rebound, Puget Lowland. Washington. Dethier, D.P., et al. [1995,eng] 50-1832
- Recent retreat of ice shelves on the Antarctic Peninsula. Vaughn, D., et al. [1995,eng] 50-2155
- Sedimentology and geomorphology of fjords. Syvitski, J.P.M., et al. [1995,eng] 50-1116
- Stress interaction between multiple crevasses in glacier ice. Sas-solas, C., et al. [1996,eng] 50-5464
- Study of brash ice in the proximal marine zone of a sub-polar tidewater glacier. Smith, N.D., et al. [1996,eng] 50-6224
- Survey of calving causing flood waves at the Grubengletscher. Haeblerli, W., [1975,ger] 50-3952
- Taku Glacier, southeast Alaska, U.S.A.: Late Holocene history of a tidewater glacier. Motyka, R.J., et al. [1996,eng] 50-4335
- Canada**
- Arctic Pilot Project integrated route analysis. Chapter 2. Physical aspects of the route areas. [1981,eng] 50-3558
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Atmospheric observing systems and their data management support structure. Stirling, L.M., [1994,eng] 50-3414
- Canadian Air Force ice strip requirements. [1982,eng] 50-4594
- Canadian Atlantic Storms Program: progress and plans of the meteorological component. Stewart, R.E., [1991,eng] 50-4416
- Canadian contribution to the Paleoclimate Model Intercomparison Project (PMIP). Jetté, H., [1995,eng] 50-1449
- Canadian development and use of snow cover information from passive microwave satellite data. Goodison, B.E., et al. [1995,eng] 50-4177
- Canadian permafrost distribution during the Holocene. Zolai, S.C., [1995,eng] 50-1453
- Cryospheric observing systems and data management. Barry, R.G., [1994,eng] 50-3415
- Developments in airport ice control chemicals. Townshend, T., [1995,eng] 50-3119
- Eastern Canadian Arctic at ca. 6 ka BP: a time of transition. Williams, K.M., et al. [1995,eng] 50-1450
- Estimating snowmelt runoff erosion indices for Canada. Hayhoe, H.N., et al. [1995,eng] 50-967
- Glacial geology: how ice shapes the land. Erickson, J., [1996,eng] 50-3555
- Hydrometeorological aspects of flood hazards in Canada. Lawford, R.G., et al. [1995,eng] 50-1853
- Ice thickness data, winter 1992-1993. [1995,eng] 50-985
- Ice thickness data, winter 1993-1994. Final issue. [1996,eng] 50-3711
- II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973. [1973,rus] 50-5139
- Impacts of climate variability and change on Canadian wetlands. Woo, M.K., [1992,eng] 50-4805
- Implications of glacial deposit physical properties for radiocarbon dating. Karrow, P.F., [1992,eng] 50-2563
- Introduction to river ice jam floods. Gerard, R.L., et al. [1995,eng] 50-784
- Living on ice: problems of urban development in Canada's north. French, H.M., [1994,eng] 50-6099
- MANICE. Manual of standard procedures for observing and reporting ice conditions. 8th edition. Canada. Atmospheric Environment Service. Ice Services Branch. [1994,eng] 50-409
- Nuclear waste management in Canada. MacDowall, J., [1984,eng] 50-3164
- Permafrost distribution and climate change. Nelson, F.E., [1990,eng] 50-1665
- Sediment flux along glaciated continental margins. Andrews, J.T., et al. [1994,eng] 50-1241
- Snow surveying in Canada: a perspective. Goodison, B.E., et al. [1987,eng] 50-4907
- Solifluction and climate in the Holocene: a North American perspective. Smith, D.J., [1993,eng] 50-834
- Winter storms over Canada. Stewart, R.E., et al. [1995,eng] 50-1852
- Canada—Alberta**
- Biofluffing—enhancing biological remediation of near-surface spills by augering. Stehmer, L., et al. [1996,eng] 50-5567
- Drinking water quality in small northern communities. Smith, D.W., et al. [1996,eng] 50-6154

Canada—Alberta—Cold Lake

- Growth curves for calcium-tolerant lichens in the Canadian Rocky Mountains. McCarthy, D.P., et al. [1995,eng] 50-3330
- Paleoecological record of 6 ka BP climate in the Canadian prairie provinces. Vance, R.E., et al. [1995,eng] 50-1455
- Paleoenvironmental history of a Canadian freshwater lake. Hickman, M., et al. [1996,eng] 50-6696
- Quaternary geology and the last two glaciations in Alberta. Jackson, L.E., Jr., [1994,eng] 50-86
- Remediation of a hydrocarbon spill in Alberta. Mitton, M.J., et al. [1995,eng] 50-5725
- Remote monitoring and technical support for drinking water systems in remote communities. Smith, D.W., et al. [1996,eng] 50-6152
- Runoff and sediment yield under grazing in foothills fescue grasslands of Alberta. Naeth, M.A., et al. [1996,eng] 50-3340
- Urban hailstorms: a view from Alberta. Charlton, R.B., et al. [1995,eng] 50-3960
- Canada—Alberta—Cold Lake**
- Effects of steam quality on cyclic steam stimulation at Cold Lake, Alberta. Ho, D.W., et al. [1991,eng] 50-1703
- Canada—Alberta—Peace River**
- Case study: freeze-up and jamming on the Peace River at Peace River. Andres, D.D., [1995,eng] 50-792
- Canada—Alberta—Peyto Lake**
- Sedimentation in glacier-fed Peyto Lake. Chikita, K., [1992,eng] 50-6642
- Canada—Alberta—Red Deer River**
- Quaternary stratigraphy of the buried valleys of the lower Red Deer River, Alberta, Canada. Evans, D.J.A., et al. [1995,eng] 50-1080
- Canada—Alberta—Rocky Mountains**
- Pleistocene stratigraphy of the Athabasca River valley region, Rocky Mountains, Alberta. Levson, V.M., et al. [1995,eng] 50-5037
- Rocky Mountain snowmelt on talus slopes by radar satellite. Maxfield, A.W., [1996,eng] 50-5544
- Canada—Alberta—Wapiti Ice Field**
- Mapping alpine snow and ice using Landsat TM and SAR imagery at Wapiti icefield. Brugman, M.M., et al. [1996,eng] 50-5545
- Canada—British Columbia**
- Avalanche frequency at Roger's Pass, British Columbia, Canada. Smith, M.J., et al. [1995,eng] 50-4681
- Biodiversity of Canadian forests, with particular reference to the west coast forests. Boyle, T.J.B., [1996,eng] 50-4071
- British Columbia vegetation and climate history with focus on 6 ka BP. Hebda, R.J., [1995,eng] 50-1454
- Desiccation of white spruce seedlings planted in the southern boreal forest of British Columbia. Krasowski, M.J., et al. [1995,eng] 50-766
- Geology of the Red Mountain gold deposit in British Columbia. Greig, C.J., et al. [1994,eng] 50-84
- Glacial dispersal of mineralized bedrock mercury. Plouffe, A., [1995,eng] 50-882
- Late Wisconsinan outwash in southeastern British Columbia. Clague, J.J., [1975,eng] 50-4815
- Neoglaciation and vegetation change in British Columbia. Clague, J.J., et al. [1996,eng] 50-4332
- New regional mapping project in Vernon map area, British Columbia. Thompson, R.J., et al. [1994,eng] 50-85
- Spatial and temporal distribution of storm precipitation in southwestern British Columbia. Loukas, A., et al. [1996,eng] 50-2603
- Spring snowpack anomaly patterns and winter climatic variability, British Columbia, Canada. Moore, R.D., et al. [1996,eng] 50-3492
- Stratigraphic and structural setting of mineral deposits in British Columbia. Davies, A.G.S., et al. [1994,eng] 50-83
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- Hydrogeochemistry of Fraser River, British Columbia. Cameron, E.M., [1996,eng] 50-5815
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- Effects of climate change on water supplies in mountainous snowmelt regions. Rango, A., [1995,eng] 50-6617
- Canada—British Columbia—Queen Charlotte Sound**
- Foraminiferal evidence of Younger Dryas age cooling on the British Columbia shelf. Patterson, R.T., et al. [1995,eng] 50-5039
- Canada—British Columbia—Scout Mountain**
- Physical climatology of alpine tundra, Scout Mountain, British Columbia, Canada. Saunders, I.R., et al. [1996,eng] 50-4235

- Canada—British Columbia—Sisters Creek Formation**
- Nonglacial interval in Canadian Pleistocene sediments. Hicock, S.R., et al. [1995,eng] 50-1087
- Canada—British Columbia—Vancouver Island**
- Logging effects on an aquatic ecosystem on Vancouver Island. Hetherington, E.D., [1996,eng] 50-4070
- Canada—Great Lakes**
- Forest changes in the Great Lakes region at 5-7 ka BP. Anderson, T.W., [1995,eng] 50-1456
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- Hudson Bay-Hudson Strait jökulhlaups and Heinrich events: a hypothesis. Johnson, R.G., et al. [1995,eng] 50-354
- Ice-ocean seasonal cycle and climate response in Hudson Bay. Soucier, F.J., et al. [1995,eng] 50-5931
- Origin and structure of a numerically simulated polar low over Hudson Bay. Albright, M.D., et al. [1995,eng] 50-2526
- Recent advance of the arctic treeline along the eastern coast of Hudson Bay. Lescop-Sinclair, K., et al. [1995,eng] 50-3041
- Canada—Hudson Strait**
- Recent cooling along Hudson Strait, from permafrost temperature measurements. Allard, M., et al. [1995,eng] 50-76
- Canada—Labrador**
- Churchill Falls development, Canadian Industries Limited. Explosives Technical Marketing Services, [1971,eng] 50-5738
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- Canada—Manitoba**
- Controls of canopy structure on snowmelt rates in the boreal forest. Metcalfe, R.A., et al. [1995,eng] 50-3130
- Ecological controls on peatland methane emissions in discontinuous permafrost. Bubier, J.L., et al. [1995,eng] 50-2803
- Glacial deposit geochemistry at a Manitoba mining site. Nielsen, E., et al. [1991,eng] 50-3911
- Ice storm management on an electrical utility system. Hall, J.W., [1996,eng] 50-5367
- Paleoecological record of 6 ka BP climate in the Canadian prairie provinces. Vance, R.E., et al. [1995,eng] 50-1455
- Paleozoic petroleum source rocks in Saskatchewan and Manitoba. Osadetz, K.G., et al. [1995,eng] 50-232
- Results from the 1994 Boreal Ecosystem-Atmosphere Study (BOREAS). Sellers, P., et al. [1995,eng] 50-4574
- Canada—Manitoba—Churchill**
- Energy partitioning at treeline forest and tundra sites and its sensitivity to climate change. Lafleur, P.M., et al. [1995,eng] 50-600
- Field guide to the Churchill region, Manitoba. Dredge, L.A., [1992,eng] 50-3910
- Impacts of increased winter snow cover on upland tundra vegetation: a case example. Scott, P.A., et al. [1995,eng] 50-3848
- Methane emissions from wetlands at northern treeline. Rouse, W.R., et al. [1995,eng] 50-75
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- Canada—Manitoba—La Pêrouse Bay**
- Plant ecology during desertification of an arctic salt marsh. Srivastava, D.S., et al. [1996,eng] 50-4523
- Canada—New Brunswick**
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- Canada—Newfoundland**
- 6 ka BP reconstruction for Newfoundland from pollen records. Macpherson, J.B., [1995,eng] 50-1459
- Alteration of C-S-H and ASR gels in deteriorated concretes, Newfoundland, Canada. Katayama, T., et al. [1995,eng] 50-2676
- Mesoscale and microscale characteristics of a CASP II severe ice pellet storm. Hanesiak, J.M., [1994,eng] 50-4170
- Quaternary geology of the Buchans area, Newfoundland: implications for mineral exploration. Klassen, R.A., et al. [1996,eng] 50-6634
- Review of multi-proxy data for the Younger Dryas in Atlantic Canada. Mayle, F.E., et al. [1995,eng] 50-4624
- Role of air-sea heat flux in Newfoundland Shelf sea temperature variability. Umoh, J.U., et al. [1995,eng] 50-4209
- Vertical structure of the currents on the Newfoundland shelf. Narayanan, S., et al. [1995,eng] 50-5934
- West coast Newfoundland oil spill sensitivity atlas. Dempsey, J., et al. [1995,eng] 50-1468
- Canada—Newfoundland—Deer Lake**
- Comment and reply on paper by Batterson et al. Brookes, I.A., et al. [1995,eng] 50-1083
- Canada—Newfoundland—Grand Banks**
- Production of high-strength concrete for the Hibernia offshore concrete platform. Hoff, G.C., et al. [1994,eng] 50-2764
- Quantification of the reliability of iceberg management off eastern Canada. Goodridge, D.N., et al. [1995,eng] 50-2947
- Canada—Northwest Territories**
- Additions and range extensions to the vascular plant flora of the Northwest Territories, Canada. Cody, W.J., [1996,eng] 50-6342

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- Evaporation from a small lake in the continental Arctic using multiple methods. Gibson, J.J., et al. [1994,eng] 50-5694
- From Anik to MSAT: bringing modern communications to the North. Pool, A., [1996,eng] 50-2446
- Glaciation onset related to Canadian tundra. Gallimore, R.G., et al. [1996,eng] 50-5212
- Hillslope ice wedges and landform evolution on coastal arctic Canada. Mackay, J.R., [1995,eng] 50-3298
- Kennecott's Diavik project: diamond exploration enters the final stage. [1996,eng] 50-2447
- Painting fuel storage facilities with local labor in Nunavut. Prinsloo, H.F., [1996,eng] 50-5948
- Passive microwave snow research in the Canadian High Arctic. Gan, T.Y., [1996,eng] 50-5540
- Potential for greater use of wetlands for waste treatment in northern Canada. Doku, I.A., et al. [1995,eng] 50-361
- Report on heavy metals. Melnikov, S.A., [1991,eng] 50-3419
- Revegetation of shrub tundra in disturbed soils. Harper, K.A., et al. [1996,eng] 50-5490
- Treeline/midge correlation, Northwest Territories, Canada. Walker, I.R., et al. [1995,eng] 50-3326
- Vegetation of the continental Northwest Territories at 6 ka BP. MacDonald, G.M., [1995,eng] 50-1452
- White spruce light rings in northwestern Canada. Szeicz, J.M., [1996,eng] 50-5492
- Canada—Northwest Territories—Alert**
- Increased assimilation of CO₂ by northern land plants. Keeling, C.D., et al. [1996,eng] 50-5524
- Monitoring organic pollutants in the Arctic in 1992. Fellin, P., et al. [1996,eng] 50-4359
- Sources of biogenic sulfur in the high Arctic. Hopke, P.K., et al. [1995,eng] 50-589
- Sulfur hexafluoride—a powerful new atmospheric tracer. Maiss, M., et al. [1996,eng] 50-5608
- Canada—Northwest Territories—Arctic Archipelago**
- Distribution of the high arctic grass, *Phippia algida*. Grulke, N.E., [1995,eng] 50-78
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- Early Tertiary vegetation and paleoclimatology of arctic Canada. Basinger, J.F., et al. [1994,eng] 50-905
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- Tertiary paleostress regimes in arctic islands. Lepvrier, C., et al. [1996,eng] 50-6208
- Canada—Northwest Territories—Baffin Island**
- Analysis of stone size and shape in arctic environments. King, C.A.M., et al. [1996,eng] 50-5760
- Background to the German expedition to Clearwater Fiord, Baffin Island. Barr, W., [1992,eng] 50-3428
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995,eng] 50-1863
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995,eng] 50-5717
- Diatom distribution on Baffin Island, Canada. Wolfe, A.P., [1996,eng] 50-6514
- Flux and preservation of organic carbon in Baffin Island fjords. Syvitski, J.P.M., et al. [1990,eng] 50-924
- Fossilization potential of arctic fjord and continental shelf benthic macrofaunas. Aitken, A.E., [1990,eng] 50-923
- General geomorphological aspects of the Cumberland Peninsula on Baffin I. Cortemiglia, G.C., et al. [1994,ita] 50-2822
- German expedition of the First International Polar Year to Cumberland Sound, Baffin Island, 1882-83. Abbes, H., [1992,eng] 50-3429
- Natural cleaning of oiled coarse sediment shorelines in arctic and Atlantic Canada. Owens, E.H., et al. [1994,eng] 50-6231
- Northern exposure—traversing Baffin Island's icy reaches. Dunn, J., [1995,eng] 50-4358
- Radiocarbon date list VIII: Canada, Greenland, Iceland, and Antarctica. Manley, W.F., ed, et al. [1996,eng] 50-5927
- Radiocarbon geochemistry of modern and ancient arctic lake systems, Baffin Island, Canada. Abbott, M.B., et al. [1996,eng] 50-5190
- Canada—Northwest Territories—Bylot Island**
- Basal debris entrainment of Canadian arctic glaciers. Zdanowicz, C.M., et al. [1996,eng] 50-6247
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- Distribution of pesticide residues in arctic coastal ecosystems. Bright, D.A., et al. [1995,eng] 50-4747
- Electrodynamics of the upper atmosphere and radio aurora in the northern polar cap. Kustov, A.V., et al. [1994,eng] 50-1964
- Canada—Northwest Territories—Cornwallis Island**
- Pesticide degradation in an arctic lake and watershed. Falconer, R.L.M., et al. [1995,eng] 50-1131
- Canada—Northwest Territories—Crumbling Point**
- Correlation between Pleistocene involutions in English soil and Canadian thermokarst. Murton, J.B., et al. [1995,eng] 50-1803
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- Nitrogen soil dynamics in an arctic lowland ecosystem. Chapin, D.M., [1996,eng] 50-4340
- Rotifers from the Canadian High Arctic (Devon Island, Northwest Territories). De Smet, W.H., et al. [1995,eng] 50-4162
- Water limitations and plant community development in a polar desert. Gold, W.G., et al. [1995,eng] 50-2463
- Water relations in wet sedge-moss tundra at a high arctic oasis. Nosko, P., et al. [1995,eng] 50-74

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- Canada—Northwest Territories—Ellesmere Island**
Canadian paleoenvironments derived from pollen macrofossils. Gajewski, K., et al. [1995,eng] 50-2131
Early Tertiary vegetation and paleoclimatology of arctic Canada. Basinger, J.F., et al. [1994,eng] 50-905
Exceptional storm and its effects in the Canadian High Arctic. Cogley, J.G., et al. [1976,eng] 50-3679
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Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995,eng] 50-6046
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Little Ice Age temperature estimated by arctic heather growth variations. Havström, M., et al. [1995,eng] 50-1121
Minimum area and cover-abundance scales as applied to polar desert vegetation. Lévesque, E., [1996,eng] 50-5489
Moss species discovered in Arctic Canada. Hedderson, T.A., et al. [1992,eng] 50-6523
Periphytic diatom assemblages from high arctic ponds. Douglas, M.S.V., et al. [1995,eng] 50-1460
Photogrammetry and geomorphology of high arctic push moraines. King, L., et al. [1993,eng] 50-1673
Pixel-scale ground snow survey for passive microwave study of the arctic snow cover. Woo, M.K., et al. [1995,eng] 50-3110
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- Canada—Northwest Territories—Herschel Island**
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Arctic algal communities in the region of the Nuvuk Islands, northeastern Hudson Bay, Canada. Keats, D.W., et al. [1989,eng] 50-3692
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Final stages in Laurentide ice sheet collapse. Hudson Strait. Andrews, J.T., et al. [1995,eng] 50-6556
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Intrapermastrost gas hydrates, Mackenzie Delta. Dallimore, S.R., et al. [1995,eng] 50-560
Petroleum resources of the Mackenzie Delta and Beaufort Sea. Dixon, J., et al. [1994,eng] 50-3319
Sea ice over-flooding and oil spills in the Mackenzie Delta. Webb, R., [1995,eng] 50-5720
Unfrozen water content and grain size of Mackenzie Delta core samples. Paterson, D.E., [1994,eng] 50-400
- Canada—Northwest Territories—Mackenzie Mountains**
Recent white spruce dynamics at the subarctic alpine treeline of north-western Canada. Szeicz, J.M., et al. [1995,eng] 50-3036
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On the interannual variability of precipitation and runoff in the Mackenzie drainage basin. Björnsson, H., et al. [1995,eng] 50-2737
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Observations on a plug of old sea ice in the entrance to Nansen Sound, Ellesmere Island. Sadler, H.E., et al. [1981,eng] 50-46
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Application of pipe temperature simulator for Norman Wells oil pipeline. Nixon, J.F., et al. [1996,eng] 50-4306
Evaluation of vacuum-insulated tubing for paraffin control at Norman Wells. Purdy, I.L., et al. [1991,eng] 50-1727
Ground penetrating radar monitoring of permafrost along the Norman Wells pipeline. Moorman, B.J., et al. [1994,eng] 50-5590
Permafrost and thermal interfaces from Norman Wells pipeline ditchwall logs. Nixon, J.F., et al. [1991,eng] 50-1746
Terrain performance. Norman Wells oil pipeline. Northern Canada. Harry, D.G., [1990,eng] 50-1625
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Quaternary sea level history in the Northwest Territories. Canada. Kerr, D.E., [1996,eng] 50-6553
- Canada—Northwest Territories—Queen Elizabeth Islands**
Dynamic response of high arctic glaciers to global warming and their contribution to sea-level rise. Lam, J.K.W., et al. [1995,eng] 50-6618
- Canada—Northwest Territories—Resolute**
Biogenic emission of organobromine compounds to the Arctic Ocean and atmosphere. Sturges, W.T., et al. International Conference on Natural-Produced Halogens. Delft, The Netherlands, 1995. Edited by A. Grimwell and E.W.B. de Leer. [1995,eng] 50-4825
Sounding of polar stratospheric ozone annual variations. Gruzdev, A.N., et al. [1995,eng] 50-4748
Suprapermastrost groundwater seepage in gravelly terrain. Resolute, NWT, Canada. Woo, M.K., et al. [1995,eng] 50-668
- Canada—Northwest Territories—Richards Island**
Ground penetrating radar investigations of massive ground ice. Dallimore, S.R., et al. [1992,eng] 50-56
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Paleoecological significance of Quaternary permafrost relics in arctic Canada. Murton, J.B., [1996,eng] 50-3645
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Evaluation of geocomposite edge drain on sand subgrade. Raymond, G.P., et al. [1996,eng] 50-5662
Ground penetrating radar study of peat stratigraphy. Nobes, D.C., et al. [1992,eng] 50-63
Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995,eng] 50-3125
Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995,eng] 50-6043
Influence of glacial deposits on river basin sedimentation. Campo, S.H., et al. [1994,eng] 50-2997
Late glacial sedimentation and history of the Lake Nipigon Basin, Ontario. Lemoine, R.M., et al. [1995,eng] 50-4880
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Paleoecological record of 6 ka BP climate in the Canadian prairie provinces. Vance, R.E., et al. [1995,eng] 50-1455
Sedimentology of the Brampton esker in Ontario. Sanderson, H.C., [1975,eng] 50-4812
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Sequence analysis of Canadian glaciolacustrine deposits. Martini, I.P., et al. [1995,eng] 50-1084
- Canada—Ontario—Bradville**
Lobal interactions and rheologic superposition in subglacial till near Bradville, Ontario, Canada. Hickock, S.R., [1992,eng] 50-2550
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Damming James Bay: I. Potential impacts on coastal climate and the water balance. Rouse, W.R., et al. [1992,eng] 50-5030
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- Canada—Ontario—Ottawa**
Chaudière Island proposed snow dumping facility: an environmental appraisal. Lopez, K., et al. [1981,eng] 50-1200
Ice hydraulic investigation for the snow disposal structure, Ottawa River. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1981,eng] 50-1199
Ice hydraulics of snow disposal in the Ottawa River: frazil ice. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1982,eng] 50-1198
Investigation of proposed snow dump facility. Gore & Storrie Limited, Ottawa, Ontario, [1983,eng] 50-1197
- Prewetting salt with liquid calcium chloride for ice control on urban streets. Dunn, W., et al. [1995,eng] 50-3118
Report on the proposed snow dumping facilities, Ottawa River. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1980,eng] 50-1201
Snow disposal sites—the Regional Municipality of Ottawa-Carleton experience. Becking, J.I., [1986,eng] 50-1196
Snow disposal study for the designated growth centres. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1990,eng] 50-1153
- Canada—Quebec**
Biological remediation of shoreline oily waste from marine spills. Labrie, P., et al. [1990,eng] 50-474
Climate of freezing rain over the province of Québec in Canada: a preliminary analysis. Lafamme, J.N., et al. [1996,eng] 50-5333
Combined wind and ice loads on telecommunication towers in Quebec, Phase I. Elfashny, K., et al. [1996,eng] 50-5353
Comparison of glaze and in-cloud icing events on a test line. Druetz, J., et al. [1995,eng] 50-2951
Field measurements of ice loads: thermal loads on hydro-electric structures. Comfort, G., et al. [1994,eng] 50-853
Field observations of instrumented highway sections with different frost protections. Konrad, J.M., et al. [1996,eng] 50-6161
Formation of De geer moraines deposited subglacially, central Québec. Beaudry, L.M., et al. [1995,eng] 50-5035
Holocene development of a debris slope in subarctic Québec, Canada. Marion, J., et al. [1995,eng] 50-2857
Ice accretion weight on overhead transmission line cables. Savadjiev, K., et al. [1996,eng] 50-5351
Iceberg furrows as paleowind indicators in Lake Ojibway. Veillette, J.J., et al. [1996,eng] 50-2498
Initial phase of postfire forest regeneration in two lichen woodlands of northern Québec. Sirois, L., [1995,eng] 50-2158
Late stage 5 glacio-isostatic sea in the St. Lawrence Valley. Canada and the United States. Occhietti, S., et al. [1996,eng] 50-4577
Ozone deposition in a subarctic woodland, pt.1. Munger, J.W., et al. [1996,eng] 50-6641
Permafrost change in a peatland in northern Québec, 1983-1993. Laberge, M.J., et al. [1995,eng] 50-77
Regional-scale meltwater erosion and deposition patterns, northern Québec, Canada. Brennand, T.A., et al. [1996,eng] 50-6244
Sequence of glacial ice flows in Abitibi-Timiskaming. Veillette, J.J., et al. [1996,eng] 50-2499
Telemonitoring of climatic loads on Hydro-Québec 735 kV lines. Hardy, C., et al. [1996,eng] 50-5358
Use of alternative materials in pavement frost protection. Doré, G., et al. [1995,eng] 50-1157
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Tree-ring dating of extreme water level events at Lake Bienville, subarctic Québec, Canada. Lepage, H., et al. [1996,eng] 50-4339
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Permafrost formation and aggradation in a 23-m high homogeneous dyke: a case study. Konrad, J.M., et al. [1996,eng] 50-6165
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Developmental conditions of the Farnham bog, Québec. Lavoie, M., et al. [1995,eng] 50-4885
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Climatic atlas of Labrador Sea seasonal ice concentration. Wang, J., et al. [1991,eng] 50-5259
Distribution of sea-ice algae in Hudson Bay. Monti, D., et al. [1996,eng] 50-5211
Freshwater impact on Hudson Bay ecosystems under sea ice, pt.1. Ingram, R.G., et al. [1996,eng] 50-4019
Freshwater impact on Hudson Bay ecosystems under sea ice, pt.2. Legendre, L., et al. [1996,eng] 50-4020
Freshwater impact on Hudson Bay ecosystems under sea ice, pt.3. Fortier, L., et al. [1996,eng] 50-4021
Late Holocene record of aeolian and fire activity in northern Québec, Canada. Filion, L., et al. [1991,eng] 50-3304
Quaternary glacial transport in the Hudson Bay region. Parent, M., et al. [1995,eng] 50-4527
Sedimentary structures of cold-climate coastal dunes, eastern Hudson Bay, Canada. Ruz, M.H., et al. [1995,eng] 50-3862
Snow-vegetation relations in the forest tundra of New Quebec, Hudson Bay. Payette, S., et al. [1973,eng] 50-2852
Stability of subglacial, fine-grained sediments in a subarctic estuary. Amos, C.L., et al. [1996,eng] 50-4044
- Canada—Quebec—Kampisunajjuaq**
Cone penetration test (CPT) in cold regions engineering. Fortier, R., et al. [1996,eng] 50-6145
Ground probing radar investigation of permafrost in northern Québec. Pilon, J.A., et al. [1992,eng] 50-65
- Canada—Quebec—Knob Lake**
Blasting frozen iron ore at Knob Lake. Lang, L.C., [1966,eng] 50-5805
- Canada—Quebec—Manicouagan River**
Driving the diversion tunnel at Manic 3. Canadian Industries Limited. Explosives Technical Marketing Services, [1972,eng] 50-5737

Canada—Quebec—Matane River

- Canada—Quebec—Matane River**
Relative sea level in the area of Matane (Quebec) from deglaciation to present day. Dionne, J.C., et al. [1995,eng] 50-5036
- Canada—Quebec—Montreal**
Genotoxicity of snow in the Montreal metropolitan area. White, P.A., et al. [1995,eng] 50-1567
- Canada—Quebec—Salluit**
Recent climatic trend and thermal response of permafrost in Salluit, northern Quebec, Canada. Wang, B.L., et al. [1996,eng] 50-6699
- Canada—Quebec—St. Lawrence River**
Ice management in Lac St. Pierre. Carter, D., et al. [1995,eng] 50-4043
- Canada—Quebec—Ungava Peninsula**
New permafrost blasting method developed at Asbestos Hill. Lang, L.C., [1976,eng] 50-5749
- Canada—Rocky Mountains**
Spatial pattern in lichen communities. Dale, M.R.T., [1995,eng] 50-3780
- Canada—Saint Lawrence Estuary**
Pollen content of Pleistocene deposits in the St. Lawrence Estuary. Clet, M., et al. [1995,eng] 50-4884
- Canada—Saint Lawrence River**
Pleistocene slope deposits related to the Saint-Maurice Rhythmites, St. Lawrence Valley, Québec. Héty, B., et al. [1995,eng] 50-4883
Reduced Laurentide meltwater outflow. de Vernal, A., et al. [1996,eng] 50-5523
- Canada—Saint Lawrence, Gulf**
Modelling interannual sea ice variability in the Gulf of St. Lawrence. DeTracey, B., [1993,eng] 50-375
Reduced Laurentide meltwater outflow. de Vernal, A., et al. [1996,eng] 50-5523
Short term variations of sea ice cover. Chouinard, L.E., et al. [1995,eng] 50-186
- Canada—Saskatchewan**
Catastrophic drainage from ice-dammed glacial Lake Assiniboine. Wolfe, B., et al. [1995,eng] 50-4881
Paleoecological record of 6 ka BP climate in the Canadian prairie provinces. Vance, R.E., et al. [1995,eng] 50-1455
Paleozoic petroleum source rocks in Saskatchewan and Manitoba. Osadetz, K.G., et al. [1995,eng] 50-232
Results from the 1994 Boreal Ecosystem-Atmosphere Study (BOREAS). Sellers, P., et al. [1995,eng] 50-4574
- Canada—Saskatchewan—Prince Albert National Park**
Mapping snow cover during the BOREAS winter experiment. Hall, D.K., et al. [1995,eng] 50-3105
- Canada—St. Lawrence, Gulf**
Operational use of ERS-1 SAR images in the Canadian ice monitoring programme. Shokr, M.E., et al. [1996,eng] 50-4017
- Canada—Yukon Territory**
East Beringia during Late Wisconsin time: a review of the biotic evidence. Matthews, J.V., Jr., [1982,eng] 50-3374
How terrain and road design affect winter maintenance on the Klondike Highway. Tabler, R.D., et al. [1993,eng] 50-5595
Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st. Burg Wartenstein, Austria, June 8-17, 1979. [1982,eng] 50-3369
Paleovegetation and paleoclimatic changes in the Yukon at 6 ka BP. Cwynar, L.C., et al. [1995,eng] 50-1451
Predicting the location of permafrost in central Yukon Territory. Williams, D.J., [1995,eng] 50-5668
Preliminary results of ground ice studies in the Herschel Island area, Yukon coastal plain. Pollard, W.H., [1990,eng] 50-1622
Preliminary stratigraphy from Lansing map area. Yukon Territory. Roots, C., et al. [1994,eng] 50-80
Road and airfield development in the subarctic and Arctic, Alaska and northwest Canada. Rooney, J.W., et al. [1996,eng] 50-6186
Shakwak Highway Project—construction challenges. Walsh, R., et al. [1996,eng] 50-6160
Snow survey bulletin & water supply forecast, March 1, 1996. Yukon Territory, Canada. Indian and Northern Affairs. Water Resources Division, [1996,eng] 50-3710
Snow survey bulletin & water supply forecast, May 1, 1996. Yukon Territory, Canada. Indian and Northern Affairs. Water Resources Division, [1996,eng] 50-4612
Tectonic framework of the Teslin region, southern Yukon Territory. Gordy, S.P., et al. [1994,eng] 50-81
White spruce light rings in northwestern Canada. Szeicz, J.M., [1996,eng] 50-5492
Yukon Territory snow survey bulletin & water supply forecast: April 1, 1996. Canada. Indian and Northern Affairs. Water Resources Division, [1996,eng] 50-4294
- Canada—Yukon Territory—Richardson Mountains**
Periglacial denudation in the Richardson Mountains. Fried, G., et al. [1993,eng] 50-1675
- Canada—Yukon Territory—St. Elias Mountains**
Icefield Ranges climatology program: 1965 data presentation and programming analysis. Marcus, M.G., et al. [1966,eng] 50-3975
- Canada—Yukon Territory—Watson Lake**
Thermospheric neutral winds at Watson Lake, Yukon Territory. Niciejewski, R.J., et al. [1996,eng] 50-6683
- Capillarity**
Capillary bonding of wet surfaces and adhesion of skis to ice. Colbeck, S.C., [1996,eng] 50-6038
Correction to paper by Grant et al. [1996,eng] 50-5968

- Effects of capillary discontinuities on water flow and water retention in layered snowcovers. Jordan, R., [1995,eng] 50-2472
- Effects of the variation in suction and heat flow during the frost heaving process. Jones, R.H., [1977,eng] 50-2323
Forecasting service life of frost-penetrated concrete. Fagerlund, G., [1996,eng] 50-4788
Freeze/thaw treatment on zone settling of waste activated sludges. Chen, G.W., et al. [1996,eng] 50-5043
Frost heave research at the University of Nottingham. Jones, R.H., [1977,eng] 50-2312
Incorporation of a drainage layer and infiltration into FROST. Abdel-Salam, A., et al. [1993,eng] 50-6050
Predicting brick frost resistance. If. Robinson, G.C., et al. [1995,eng] 50-1961
Research program for reducing frost heave with geosynthetic capillary barriers. Henry, K.S., et al. [1996,eng] 50-6129
Temperature effects on porous solid capillary functions. Grant, S.A., et al. [1996,eng] 50-5965
Use of geosynthetic capillary barriers to reduce moisture migration in soils. Henry, K.S., [1995,eng] 50-1096
Water movement in wet snow. Gray, J.M.N.T., [1996,eng] 50-3727
- Carbon black**
Age of carbon black atmospheric aerosols over Finland. Raunemaa, T., et al. [1996,eng] 50-5257
- Carbon dating**
See [also]: Radioactive age determination
- Carbon dioxide**
2xCO₂ experiment with prescribed changes in sea surface temperature. Mahfouf, J.-F., et al. [1992,eng] 50-226
Acclimation of tree function and structure to climate change and implications to forest carbon balance. Hari, P., et al. [1994,eng] 50-3204
Alteration of volatile inventories by polar clathrate formation on Mars. Musselwhite, D., et al. [1995,eng] 50-2133
Apparatus for in situ measurement of CO₂ diffusion coefficient of snowpack. Kominami, Y., et al. [1996,jpn] 50-4924
Arctic atmospheric composition during episodic air pollution. Lejenäs, H., et al. [1996,eng] 50-6710
Arctic Flux Study: a regional view of trace gas release. Weller, G., et al. [1995,eng] 50-3809
Assessment of the impact of the greenhouse gas emission and sink scenarios in Finland. Pipatti, R., et al. [1994,eng] 50-3234
Atmospheric CO₂ in peat. White, J.W.C., et al. [1994,eng] 50-3770
Atmospheric CO₂ over Showa Station. Murayama, S., et al. [1995,eng] 50-974
Atmospheric CO₂ variations at Spitsbergen. Engardt, M., et al. [1996,eng] 50-3723
Atmospheric CO₂ variations inferred from antarctic ice composition. Etheridge, D.M., et al. [1996,eng] 50-3446
Carbon in boreal coniferous forest soil. Westman, C.J., et al. [1994,eng] 50-3203
Climate models and scenarios. Fortelius, C., et al. [1994,eng] 50-3185
Climate of the penultimate ice age according to data from an antarctic ice core. Kotliakov, V.M., et al. [1993,rus] 50-4103
CO₂ exchange in some vascular plants inhabiting the polar Urals. Gerasimenko, T.V., et al. [1996,eng] 50-6757
CO₂ flux through a Wyoming seasonal snowpack: diffusional and pressure pumping effects. Massman, W., et al. [1995,eng] 50-2400
CO₂ fluxes in peatlands under varying temperature and moisture conditions. Silvola, J., et al. [1994,eng] 50-3218
Dendrochronology of climatic change in mountain environment. Tessier, L., et al. [1995,eng] 50-1019
Detection and monitoring of H₂O and CO₂ ice clouds on Mars. Bell, J.F., III, et al. [1996,eng] 50-5195
Dissolved inorganic carbon in the Kara Sea and in the mouths of the Ob and Yenisey Rivers. Makkaveev, P.N., [1995,eng] 50-3533
DOC storage in arctic seas: the role of continental shelves. Walsh, J.J., [1995,eng] 50-1165
Economic and game-theoretical analysis of CO₂ reduction agreements. Tahvonen, O., [1994,eng] 50-3235
Effect of climatic change on photosynthesis, respiration and transpiration of Scots pine. Laitinen, K., [1994,eng] 50-3210
Effects of elevated N-input and CO₂ on *Spaghnum* with different trophic level. Jauhainen, J., et al. [1994,eng] 50-3214
Effects of long-term elevation in air temperature and CO₂ concentration on frost hardness of Scots pine. Repo, T., [1994,eng] 50-3213
Evaluation of respiration of Russian soils. Kudeiarov, V.N., et al. [1996,eng] 50-5086
Evolution of factors affecting gas transmissivity of snow in the boreal forest. Hardy, J.P., et al. [1995,eng] 50-2398
Finnish research programme on climate change: second progress report. Kanninen, M., ed. et al. [1994,eng] 50-3179
Greenhouse effect and the global environmental changes. Obrębska-Starkel, B., et al. [1991,pol] 50-5003
Growth dynamics and population development in an alpine grassland under elevated CO₂. Schappi, B., [1996,eng] 50-5779
Growth responses of an alpine grassland to elevated CO₂. Schappi, B., et al. [1996,eng] 50-5771
High-latitude climate change with an atmospheric coupled sea ice model. Washington, W.M., et al. [1996,eng] 50-6055

- High-latitude forest ecophysiology during global warming. Kohlmaier, G.H., et al. [1995,eng] 50-771
Ice complex and greenhouse gases. Kunitskii, V.V., [1996,rus] 50-6380
- Impact of atmospheric changes on alpine vegetation: the ecophysiological perspective. Körner, Ch., [1995,eng] 50-1014
Impact of climate change on carbon cycle in freshwater ecosystems. Kankaala, P., et al. [1994,eng] 50-3201
Impact of global warming on tundra and forest ecosystems. Pléchl, M., et al. [1995,eng] 50-4865
Impact of stratospheric flight on ozone. Pitari, G., et al. [1995,eng] 50-557
Increased assimilation of CO₂ by northern land plants. Keeling, C.D., et al. [1996,eng] 50-5524
Increasing CO₂ decreasing insolation, and initiation of ice sheets. Chu, S.P., [1994,eng] 50-671
Initial assessment of multi-scale measures of CO₂ and H₂O flux in the Siberian taiga. Hollinger, D.Y., et al. [1995,eng] 50-3810
- Ion irradiation of astrophysical ices. Strazzulla, G., et al. [1995,eng] 50-3022
Latitudinal effect of UV-B and CO₂ on lichens. Sonesson, M., et al. [1995,eng] 50-3783
Low brightness temperatures of Martian polar caps: CO₂ clouds or low surface emissivity? Forget, F., et al. [1995,eng] 50-2120
- Martian atmospheric carbon 14 as indicator of atmosphere-regolith gas exchange. Jakosky, B.M., et al. [1996,eng] 50-3009
- Mathematical models of ecosystem carbon cycle feedback effects. Ryzhova, I.M., [1996,eng] 50-5087
Model of Greenland and antarctic ice sheet thickness variations. Verbitskii, M.I.A., et al. [1995,eng] 50-642
Niwt Ridge snow fence experiment: biogeochemical response to changes in the seasonal snowpack. Brooks, P.D., et al. [1995,eng] 50-2421
Northern forest plants under the pressure of environmental changes. Laine, K., et al. [1994,eng] 50-3231
Organic carbon storage in the soils of the Russian Federation. Orlov, D.S., et al. [1996,eng] 50-5085
Palaeo-ecophysiological studies on cretaceous and tertiary fossil floras. Beerling, D.J., [1994,eng] 50-895
Paleoclimatic atmospheric chemical changes inferred from fossil leaf density. Beerling, D.J., et al. [1995,eng] 50-6563
Paleoclimatic CO₂ record related to changes in oceanic thermohaline circulation. Figgie, R.A., et al. [1995,eng] 50-1149
Physiological responses of *Pinus sylvestris* on changing carbon dioxide and ozone concentration. Holopainen, T., et al. [1994,eng] 50-3232
Pliocene climates: the nature of the problem. Crowley, T.J., [1996,eng] 50-6624
Potential role of peatland dynamics in ice-age initiation. Klinger, L.F., et al. [1996,eng] 50-4587
Processes affecting the CO₂ concentrations measured in Greenland ice. Ankin, M., et al. [1995,eng] 50-975
Response of soil carbon to climate change. McGuire, A.D., et al. [1995,eng] 50-4866
Results from the 1994 Boreal Ecosystem-Atmosphere Study (BOREAS). Sellers, P., et al. [1995,eng] 50-4574
Sea ice variations under doubled atmospheric carbon dioxide. Timbal, B., et al. [1995,eng] 50-2734
Seasonal variability in CO₂ transport through snow in a boreal forest. Winston, G.C., et al. [1995,eng] 50-2399
Sediment-based carbon nutrition in tropical alpine *Isoetes*. Keeley, J.E., et al. [1994,eng] 50-3052
Sensitivity of alpine plants to potential climate changes. Skre, O., [1995,eng] 50-1008
Siberian tundra CO₂ flux as a source of seasonal CO₂ variations. Zimov, S.A., et al. [1996,eng] 50-5868
Soil respiration in a stand of Scots pine under elevated temperature. Pajari, B., [1994,eng] 50-3211
Stable carbon isotope ratios in the waters of the Laptev Sea/Sep. 94. Erlenkeuser, H., et al. [1995,eng] 50-2082
Stable carbon isotope ratios in tree rings of pines from northern Finland. Sonninen, E., et al. [1994,eng] 50-3181
Temporal and spatial variation of CO₂, CH₄ and N₂O fluxes in a boreal minerotrophic pine fen. Silvola, J., et al. [1994,eng] 50-3219
Thermodynamic stability of hydrates for ethane, ethylene, and carbon dioxide. Kvamme, B., et al. [1996,eng] 50-5019
Water in lichens at subzero temperatures. Schroeter, B., et al. [1995,eng] 50-2842
Winter-summer differences of carbon dioxide and oxygen in the Weddell Sea surface layer. Hoppema, M., et al. [1995,eng] 50-3006
- See [also]: Dry ice (trademark)
- Carbon isotopes**
Aircraft measurements of the stable carbon isotopic ratio of atmospheric methane over Siberia. Sugawara, S., et al. [1996,eng] 50-6051
Arctic dwarf shrub response to simulated climatic warming. Michelsen, A., et al. [1996,eng] 50-5770
Holocene environmental changes in a Tibetan lake basin, pt. 1. Fontes, J.C., et al. [1996,eng] 50-5090
Holocene environmental changes in a Tibetan lake basin, pt. 4. Gasse, F., et al. [1996,eng] 50-5093
Isotope analysis of Arctic Ocean ice algae primary productivity. Hobson, K.A., et al. [1995,eng] 50-3359
Radiocarbon balances of two Tibetan Lakes from 13,000 BP. Fontes, J.C., et al. [1993,eng] 50-5027

Carburetors

- Radiocarbon geochemistry of modern and ancient arctic lake systems, Baffin Island, Canada. Abbott, M.B., et al. [1996,eng] 50-5190
- Stable carbon isotope ratios in tree rings of pines from northern Finland. Sonninen, E., et al. [1994,eng] 50-3181

Carburetors

- Beware carb ice. [1992,eng] 50-3799
- Carburetor ice gremlin? [1990,eng] 50-3573

Cargo

- Air Transport Options Workshop, to be held at the Antarctic Division, Hobart, Wednesday, 1 March 1995. Australia. Antarctic Science Advisory Committee, [1995,eng] 50-6417
- Diversity of modern antarctic vessels. Mäkinen, E., et al. [1994,eng] 50-4280
- Effects of northern shipping and storage on corrosion performance. Ferrigno, L.D., III, et al. [1996,eng] 50-5952
- Helicopter services for USAP and NZAP. Petroleum Helicopters, Inc., [1996,eng] 50-5925
- Workshop on Antarctic Air Transport Networks. Council of Managers of National Antarctic Programs, [1995,eng] 50-6270

Carrying capacity

See [also]: Bearing strength

Cartography

See [also]: Mapping

Caterpillar tractors

See [also]: Tracked vehicles

Cation exchange

See [also]: Ion exchange

Caucasus Mountains

- Analysis of observations of snow cover in the Western Caucasus Mountains. Pogorelov, A.V., et al. [1991,rus] 50-1
- Changes in the composition of major ions in the Marukh Glacier in summer, 1970. Shadrina, O.V., [1972,rus] 50-555
- Common features of the Upper Quaternary and historical glaciation in the Caucasus and Tien Shan. Gerasimov, V.A., [1972,rus] 50-543
- Current and ancient glaciation in the Chveshuri River basin (central range of the Caucasus). Gobedzhishvili, R.G., [1972,rus] 50-531
- Data on the mass balance of Bashkar glacier in the Caucasus. Korotun, I.N., [1973,rus] 50-430
- Laws of distribution of the snow cover on the Greater Caucasus (Soviet Union). Gurovaia, E.E., et al. [1965,eng] 50-3427
- Mass balance of the Marukh Glacier for 1968-1970. Menshutin, V.M., [1972,rus] 50-527
- Research work on the Kolkha Glacier and other glaciers in Northern Ossetia in 1971. Rototav, K.P., et al. [1972,rus] 50-549
- Runoff of suspended sediments in the Dzhanikuat Glacier basin in summer 1970. Diurigerov, M.B., et al. [1972,rus] 50-554
- Seismic operations in the Dzhanikuat Glacier. Aleshin, A.S., [1972,rus] 50-530
- Statistical structure of the snow cover field in the Western Caucasus Mountains. Pogorelov, A.V., [1991,rus] 50-2
- Thermal balance of the surface of the Marukh Glacier. Voloshina, A.P., [1972,rus] 50-535
- Using geophysical methods to study characteristics of the Dzhanikuat Glacier moraines. Aleshin, A.S., et al. [1972,rus] 50-526

Caves

- Limestone karst morphology in the Himalayas of Nepal and Tibet. Waltham, A.C., [1996,eng] 50-4875
- Use of karst deposits in the French Jura for paleoclimatological analysis. Chaline, J., et al. [1995,eng] 50-1122

See [also]: Ice caves; Subglacial caves

Cavitation

- Cavities and the effective pressure between abrading clasts and bedrock. Hindmarsh, R.C.A., [1996,eng] 50-6237
- Influence of cavitation on icebreaker propellers. Walker, D., et al. [1995,eng] 50-200
- Laser ablation of organic molecules from frozen matrices. Belov, M.E., et al. [1995,eng] 50-3720
- Natural chemiluminescence of the marine environment under conditions of polar day and night. Lapshin, A.I., [1991,rus] 50-1315
- Non-contact loads on propellers in ice-blocked flows. Luznik, L., et al. [1995,eng] 50-2941
- Tree leaf cell response to cold acclimation. Rajashekar, C.B., et al. [1996,eng] 50-6555
- Tree tissue xylem dysfunction from freezing stress. Hacke, U., et al. [1996,eng] 50-5773

Cellular concretes

- Energy saving building systems based on advanced hollow core slab technology. Kajava, A., [1984,eng] 50-3160
- Frost-resistant autoclaved lightweight concrete. Hama, Y., et al. [1993,jpn] 50-3484
- Some behaviour of frost resistance of water permeable concrete. Tokushige, H., et al. [1995,eng] 50-2681

Cellular plastics

- Application of foam insulation for remediation of degraded permafrost. Feklistov, V.N., et al. [1996,eng] 50-5472
- Blow molding process for moldings with foam cores. Hatakeyama, Y., [1993,eng] 50-3487
- Urea foam covers for remediation of degraded permafrost. Feklistov, V.N., et al. [1996,eng] 50-6476

See [also]: Thermal insulation

Celtic Sea

- Glaciomarine sediments from the Celtic Sea. Scourse, J.D., et al. [1990,eng] 50-932

Cement admixtures

- Belite-based low-heat cement for low temperature environments. Hirose, S., et al. [1995,eng] 50-2652
- Cement and lime for deep stabilization of soil. A chemical-physical study of stabilization effects. Ahnberg, H., et al. [1995,swc] 50-2168
- Durability of microfiber-reinforced mortars. Pigeon, M., et al. [1996,eng] 50-4736
- Effects of superplasticizers on the properties of cement mortar in cold environments. Sugiyama, M., et al. [1995,eng] 50-2648
- Lost circulation material usage in coiled tubing remedial cementing at Prudhoe Bay. Krause, R.E., [1991,eng] 50-1706
- New lightweight technology for the primary cementing of oil-field casings in cold environments. Harris, K.L., [1991,eng] 50-1705
- Properties of belite type low-heat cement at low temperatures. Igarashi, H., et al. [1995,eng] 50-2651
- Quantitative cold differential thermal analysis. Dunn, J.R., et al. [1965,eng] 50-4739
- Roller compacted concrete for a cold region dam. Yasunaka, S., et al. [1995,eng] 50-2679
- Spectroscopic analysis of frozen cement paste microstructure. Olson, R.A., et al. [1995,eng] 50-1406

Cements

- Cement type and freeze-thaw resistance of concrete. Stark, J., et al. [1995,eng] 50-2637
- Chemical attack of de-icing salts on portland cement concrete. Sasatani, T., et al. [1995,eng] 50-2678
- Combined effect of acid and deicer solutions on fiber-reinforced hardened cement pastes. Fujii, T., [1995,eng] 50-2677
- Concrete mixture proportioning techniques for remote Alaskan locations. Nichols, M.R., et al. [1995,eng] 50-2671
- Dynamic modulus of elasticity and durability of no-fines concrete. Tamai, M., et al. [1995,eng] 50-2683
- Effect of freezing on the electric conductivity and dielectric constant of portland cement. Olson, R.A., et al. [1995,eng] 50-368
- Energetically modified cement (EMC) for high performance concrete in winter concreting. Ronin, V., et al. [1995,eng] 50-2666
- Freezable water in portland cement paste. Gress, D.L., et al. [1995,eng] 50-2631
- Freezing and thawing resistance of concrete pavers saturated in de-icing chemicals. Ghafoori, N., et al. [1995,eng] 50-2638
- Microstructure durability of concretes exposed to arctic conditions. Sarkar, S.L., et al. [1995,eng] 50-2664
- Mix design of air-entrained, high-performance concrete. Lessard, M., et al. [1995,eng] 50-2670
- Saturated cemented porous material permeability during freezing. Kralj, B., et al. [1996,eng] 50-5024
- Studies of shotcrete using ultra rapid hardening cement, steel fiber, and silica fume. Masuda, Y., et al. [1992,eng] 50-2756

See [also]: Soil cement

Ceramics

- Investigation and repair of a terra cotta dome in a cold climate. Ogle, R., et al. [1995,eng] 50-1978
- Predicting brick frost resistance. II. Robinson, G.C., et al. [1995,eng] 50-1961
- Smart skis and other adaptive structures. Ashley, S., [1995,eng] 50-4618

Chambers

See [also]: Cold chambers; Test chambers; Wind tunnels

Channel stabilization

- Climate change, hydrology, and channel morphology of the Gunnison River. Parker, R.S., et al. [1992,eng] 50-3032
- Management of winter soil temperatures to control streambank erosion. Bohn, C., [1989,eng] 50-2464
- Restoration of Kakabeka Falls. Ontario, Canada. Grieve, R.G., et al. [1992,eng] 50-2763

Channels (waterways)

- Anti-frost behaviour of concrete lined canal with different structures. Song, B.Q., et al. [1989,chi] 50-1387
- Development of fluvial system of the Dunder Basin (Western Spitsbergen). Harasimuk, M., et al. [1993,eng] 50-2201
- Drift tests of model floes in a circulation water channel. Rheem, C.K., et al. [1996,eng] 50-4432
- Evaluation of flow resistance in ice-covered channels. Braileanu, F., et al. [1996,eng] 50-6157
- Frazil evolution in channels. Hammar, L., et al. [1995,eng] 50-647

- Frost characteristic of saline soil and its effect on canals. Feng, T., [1989,chi] 50-1388

- Frost heave along banks of canals. Zhu, Q., et al. [1989,chi] 50-1361

- Frost heave and frost heave force of large U-shaped and concrete lined canals. Li, A.G., [1989,chi] 50-1389

- Frost resistance of concrete canals in Turkey. Tosun, H., [1995,eng] 50-2665

- Glacial landforms of Glen Geusachen. Bennett, M.R., et al. [1991,eng] 50-3034

- Ice zipper. Tetraault, M., [1987,eng] 50-2240

- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., [1995,eng] 50-2480

- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., et al. [1995,eng] 50-4039

- Laboratory tests for ice interaction with steel booms. Timco, G.W., et al. [1996,eng] 50-5812

- Maximum flow rate of floating snow in an open channel. Fukushima, Y., [1995,jpn] 50-3508
- Numerical simulation of river ice processes. Shen, H.T., et al. [1995,eng] 50-355

- Open-water and ice-jam flooding of a northern delta. Prowse, T.D., et al. [1994,eng] 50-5699

- Postglacial development of river valleys in the middle part of the northern slope of Pomerania. Florek, W., [1991,pol] 50-4940

- Preventing frost damage to irrigation canals by geotextile. Chen, L., et al. [1996,eng] 50-6167

- Simulation and analysis of upper Niagara River ice-jam conditions. Wang, D.S., et al. [1995,eng] 50-356

- Simulation of ice floe movement around an ocean structure. Rheem, C.K., et al. [1996,eng] 50-4433

- Study and engineering practice of enclosed foundation of sluice. Yu, B.F., et al. [1989,chi] 50-1390

- Charge transfer

- Atmospheric electricity and charge transfer from temperature gradients in ice. Latham, J., [1965,eng] 50-5786

- Comment on paper by Avila et al. Jayaratne, R., et al. [1996,eng] 50-5454

- Conductivity effects on electromagnetic emissions (EME) from ice fracture. O'Keefe, S.G., et al. [1996,eng] 50-4221

- Dipole moment of the water molecule in the condensed phase: a periodic Hartree-Fock estimate. Gatti, C., et al. [1995,eng] 50-3817

- Effect of air bubbles in ice on charge transfer produced by asymmetric rubbing. Latham, J., [1965,eng] 50-3951

- Electric fields and charges near 0°C in stratiform clouds. Shepherd, T.R., et al. [1996,eng] 50-5821

- Electrical properties of ice. Gross, G.W., [1970,eng] 50-5754

- Electrification mechanisms of snow crystals (Part I). Endoh, T., [1981,eng] 50-5790

- Electrification mechanisms of snow crystals (Part III). Endoh, T., [1981,eng] 50-5799

- Electrification of blowing snow. Latham, J., et al. [1965,eng] 50-3947

- Electrification of snowstorms. Latham, J., et al. [1964,eng] 50-3938

- Electron cryo-microscopy of graphite in amorphous ice. Betscher, B., [1995,eng] 50-1647

- Experiments of the charging mechanism of ice particles by the ion-capture process. Asuma, Y., et al. [1983,eng] 50-5797

- Influence of temperature on microdischarges between ice particles. Coquillat, S., et al. [1996,eng] 50-5385

- On the formation of electron depletions at the summer polar mesopause. Klostermeyer, J., [1996,eng] 50-3600

- Positive ion depletion in a noctilucent cloud. Balsiger, F., et al. [1996,eng] 50-3604

- Radar observation of cloud electrification during thunderstorms. Jameson, A.R., et al. [1996,eng] 50-3965

- Role of electrified ice meltwater in thunderstorms. Kamra, A.K., et al. [1984,eng] 50-4923

- Role of ice geometry and impact velocity in thunderstorm electrification. Latham, J., et al. [1965,eng] 50-3949

- Temperature dependence of static charging in ice growing by riming. Avila, E.E., et al. [1995,eng] 50-3004

- Thunderstorm electrification analysis: the dependence on the temperature-LWC diagram. Scavuzzo, C.M., et al. [1996,eng] 50-3342

- Thunderstorm electrification. Saunders, C.P.R., [1995,eng] 50-4075

- Charts

See [also]: Maps; Meteorological charts

Chemical admixtures

See [also]: Admixtures

Chemical analysis

- Aerosols composition over the Arctic Ocean. Shevchenko, V.P., et al. [1995,eng] 50-2061
- Airborne Polar Experiment. CNR Direzione Centrale Attività Scientifiche, [1994,eng] 50-6197
- Analysis of return drilling fluids in Prudhoe Bay oil wells. Fambrough, J.D., et al. [1991,eng] 50-1714
- Analysis of the Kominet pipeline oil. Lambert, P., et al. [1995,eng] 50-5734
- Antifreeze glycopeptides and peptides in fish from the Weddell and Lazarev seas. Wöhrmann, A.P.A., [1996,eng] 50-3959
- Antifreeze proteins and their potential use in frozen foods. Griffith, M., et al. [1995,eng] 50-5691
- Antifreeze proteins in winter rye are similar to pathogenesis-related proteins. Hon, W.C., et al. [1995,eng] 50-2853
- Arsenic pollutants in Pechora Sea sediments. Loring, D.H., et al. [1995,eng] 50-1829
- Artifact peroxides produced during cryogenic sampling of ambient air. Stauffelbach, T., et al. [1995,eng] 50-1187
- Benthic sediment hydrocarbon sources following the Exxon Valdez oil spill. Page, D.S., et al. [1995,eng] 50-3915
- Biomass burning recorded in the GISP2 ice core: a record from eastern Canada? Taylor, K.C., et al. [1996,eng] 50-4370
- Carotenoid composition and down regulation in three conifers. Adams, W.W., III, et al. [1995,eng] 50-1137
- Cation trace analysis of snow and firn samples from high-alpine sites by ion chromatography. Döschner, A., et al. [1995,eng] 50-594

- Changes in trace element speciation in Kola north surface waters during snow melt. Rodushkin, I.V., et al. [1995,eng] 50-4080

- Characteristics of water quality in a forest river during the snow melting period. Tachibana, H., et al. [1994,eng] 50-4222

Chemical composition

Chemical ice prevention

- Chemical and toxicological evaluation of water quality following the *Exxon Valdez* oil spill. Neff, J.M., et al. [1995.eng] 50-3917
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995.eng] 50-1863
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995.eng] 50-5717
- Chemistry of artificial snow and its influence on the germination of mountain flora. Jones, H.G., et al. [1995.eng] 50-2428
- Cold acclimatization biochemistry of rapeseed tissues. Smoleńska-Sym, G., et al. [1996.eng] 50-5463
- Comparison between capillary ion analysis and ion chromatography in ice and snow. Liu, L.B., et al. [1996.chi] 50-5680
- Comparison criteria for environmental chemical analyses of split samples sent to different laboratories. Grant, C.L., et al. [1996.eng] 50-5912
- Cosmochemical significance of hydrocarbon reaction to frozen benzene impact. Mimura, K., et al. [1995.eng] 50-631
- Current water quality in Cook Inlet, Alaska, study. University of Alaska. Environment and Natural Resources Institute, [1995.eng] 50-4400
- Deep ice stir debate on climate stability. Monastersky, R., [1993.eng] 50-4800
- Determining past atmospheric HCl mixing ratios from ice core analyses. Domine, F., et al. [1995.eng] 50-1104
- Dissolved organic matter in arctic sea ice. Thomas, D.N., et al. [1995.eng] 50-717
- Distribution of pesticide residues in arctic coastal ecosystems. Bright, D.A., et al. [1995.eng] 50-4747
- Effect of dynamical mixing in a simple model of the ozone hole. Edouard, S., et al. [1996.eng] 50-6332
- Fingerprinting hydrocarbons in the biological resources of the *Exxon Valdez* spill area. Bence, A.E., et al. [1995.eng] 50-3916
- Genetic diversity of an arctic/alpine herb species. Bauert, M.R., [1996.eng] 50-5493
- Glacial-ice fragments in antarctic sea ice. Haas, C., et al. [1995.eng] 50-464
- Greenland atmospheric aerosol composition during a foehn. Kikuchi, K., et al. [1996.eng] 50-6216
- Greenland ice core sediments correlated with oceanic sediments. Grönvold, K., et al. [1995.eng] 50-1251
- Heterogeneous atmospheric bromine chemistry. Lary, D.J., et al. [1996.eng] 50-3019
- Holding-time estimates for soils containing explosives. Grant, C.L., et al. [1995.eng] 50-944
- Hydrogen sulfide forecasting techniques for the Kuparuk River Field. Frazer, L.C., et al. [1991.eng] 50-1729
- Ice wharves sampling and analysis plan for ocean dumping. McMurdo Station, Antarctica. Crockett, A.B., [1993.eng] 50-3929
- Ice-core analysis for sea-ice development in Ross, Amundsen and Bellingshausen seas, 1993 and 1994 winters. Jeffries, M.O., et al. [1995.eng] 50-6503
- Inexpensive water collectors for study of surface water acidification during snowmelt. Gaskin, G.J., et al. [1995.eng] 50-1569
- Interaction of peroxytrinitric acid with solid H₂O ice. Li, Z.J., et al. [1996.eng] 50-4350
- Iron(II) in rainwater, snow, and surface seawater from a coastal environment. Zhuang, G.S., et al. [1995.eng] 50-979
- Lichen accumulation of airborne metals adjacent to a lead-zinc mine. Pilegaard, K., [1994.eng] 50-5604
- Mercury and plastic in suspended Arctic Ocean sediment. Joins, C.R., et al. [1995.eng] 50-1971
- Molecular and genetic diversity of arctic bedding plants. Abbott, R.J., et al. [1995.eng] 50-4093
- Movement of fuel spills in the Ross Ice Shelf. Tumeo, M.A., et al. [1994.eng] 50-5216
- New simple route to the synthesis of protease substrates in ice. Ullmann, D., et al. [1996.eng] 50-6713
- Organic compounds produced by photolysis of simulated cometary ices. Bernstein, M.P., et al. [1995.eng] 50-2724
- Organic sedimentation in an arctic delta. Peulvé, S., et al. [1996.eng] 50-5819
- Oxidation of S(IV) during riming by cloud droplets. Iribarne, J.V., et al. [1995.eng] 50-1103
- Peroxide concentrations in the Dome Summit South ice core, Law Dome, Antarctica. van Ommen, T.D., et al. [1996.eng] 50-6327
- Pesticide degradation in an arctic lake and watershed. Falconer, R.L.M., et al. [1995.eng] 50-1131
- Plant tissue protein associated with pine tree frost hardness. Ekramoddoullah, A.K.M., et al. [1995.eng] 50-1088
- Preservation of volatile organic compounds for testing in soil samples. Hewitt, A.D., [1995.eng] 50-780
- Prince William Sound, Alaska beach tar ball origins. Kvenvolden, K.A., et al. [1995.eng] 50-1864
- Processes affecting the CO₂ concentrations measured in Greenland ice. Ankin, M., et al. [1995.eng] 50-975
- Quaternary geochronology using the U-Th-Pb method. Geny, S.R., et al. [1995.eng] 50-496
- Recent air pollution variations inferred from Greenland ice sheet heavy metal concentrations. Candelone, J.P., et al. [1995.eng] 50-590
- Release of major ions and hydrogen peroxide from homogeneous, melting snow. Herrmann, R., et al. [1995.eng] 50-4014

- Sample representativeness: The missing element in explosives site characterization. Jenkins, T.F., et al. [1996.eng] 50-5960
- Shoreline ecology program following the *Exxon Valdez* oil spill. pt.2. Boehm, P.D., et al. [1995.eng] 50-3924
- Simple field screening method for white phosphorus (P₄) in sediment. Walsh, M.E., et al. [1995.eng] 50-2328
- Simple model to estimate atmospheric concentrations of aerosol chemical species based on snow core chemistry at Summit, Greenland. Bergin, M.H., et al. [1995.eng] 50-3097
- Snowbed bryophyte tissue composition related to air pollution. Woolgrove, C.E., et al. [1996.eng] 50-4004
- Solid phase extraction of nitroaromatics from water. Jenkins, T.F., et al. [1995.eng] 50-1977
- Some surveys of snow chemistry in the Tien Shan of Kirghizstan and Kazakhstan. Kattelmann, R., et al. [1995.eng] 50-2411
- Spectrometric detection of chloride ions in snow. Vanchikova, E.V., et al. [1995.eng] 50-3791
- Sulfide oxidation products in the antarctic atmosphere. Davison, B., et al. [1996.eng] 50-5615
- Trace elements in the Weddell Sea water and sediments in the continental shelf area. Niemistö, L., et al. [1995.eng] 50-1952
- Trichloroacetic acid in conifer needles and arboreal lichens in forest environments. Juntti, S., et al. [1996.eng] 50-4206
- Variables of cryopreservation of marine microalgae. Cañavate, J.P., et al. [1995.eng] 50-4327
- VII. Contents of Cu, Mn, Zn, Pb and Cd in plants and soil on Western Spitsbergen—Bellsund region. Jóźwik, Z., et al. [1993.eng] 50-2188
- Willow leaf wax variations in relation to cold survival. Hietala, T., et al. [1995.eng] 50-1649
- Younger Dryas as viewed through the Summit Greenland ice cores. Mayewski, P.A., [1994.eng] 50-5301
- See (also): Frozen ground chemistry; Isotope analysis; Soil analysis
- Chemical composition**
- ¹²C and ¹³N uptake by phytoplankton in the marginal ice zone of the Bellingshausen Sea. Bury, S.J., et al. [1995.eng] 50-1028
- Arctic tropospheric chemistry. Hernández, M.D.A., [1996.eng] 50-3868
- Biogenic emission of organobromine compounds to the Arctic Ocean and atmosphere. Sturges, W.T., et al. International Conference on Natural-Produced Halogens, Delft, The Netherlands, 1995. Edited by A. Grimwell and E.W.B. de Lee, [1995.eng] 50-4825
- Biogenic hydrocarbons in particulate material of the Bellingshausen Sea marginal ice zone. Cripps, G.C., [1995.eng] 50-1025
- Biogeochemical study in the Bellingshausen Sea: overview of the STERNA 1992 expedition. Turner, D.R., et al. [1995.eng] 50-1021
- Biological CO₂ pump in seasonally ice-covered waters. Legendre, L., [1996.eng] 50-6033
- Bottom sediment chemical composition of the Kara Sea and estuaries. Gurvich, E.G., et al. [1995.eng] 50-3545
- CFCs dominance in the stratosphere. Russell, J.M., III, et al. [1996.eng] 50-3103
- Changes in the level of industrial air pollutants in peat bogs in the cryolithosphere. Evseev, A.V., et al. [1996.rus] 50-6853
- Chemical reactions in the polar stratosphere. Seisel, S., [1996.eng] 50-4734
- Chemistry of water and ice from Drake Passage and the Bellingshausen Sea. Turner, S.M., et al. [1995.eng] 50-1024
- Climate change during the last deglaciation in Antarctica. Mayewski, P.A., et al. [1996.eng] 50-5067
- Comments on the use of chemically based mixing models in glacier hydrology. Sharp, M., et al. [1995.eng] 50-447
- Concentration changes of MSA and major ions in arctic aerosols during polar sunrise. Suzuki, K., et al. [1995.eng] 50-3251
- Decomposition of needle litter in a forest ecosystem. Berg, B., et al. [1995.eng] 50-2731
- Ecological aspects of the development of flat-polygonal bogs of Yamal. Kanev, V.V., et al. [1996.eng] 50-6580
- Effect of chemical composition of soils on the strength and deformability of frozen saline soils. Roman, L.T., [1995.eng] 50-632
- Effect of ethanol additives on odor detection of Alaskan gasolines. Zhao, X.H., et al. [1995.eng] 50-3393
- Evaluation procedures for deicing chemicals and improved sodium chloride. Chappelow, C.C., et al. [1993.eng] 50-875
- Expedition ARKTIS X/1 of the research vessel *Polarstern* in 1994. Fahrback, E., ed. [1995.eng] 50-3157
- Fatty acid adaptation in an antarctic bacterium—changes in primer utilization. Nichols, D.S., et al. [1996.eng] 50-4797
- Ferromanganese nodules of the Kara Sea. Bogdanov, I.U.A., et al. [1995.eng] 50-3547
- Formation of organic molecules in astronomical ices. Schutte, W.A., [1995.eng] 50-653
- Geochemistry and mineralogy of Kap Edvard Holm waters. Brandriss, M.E., et al. [1995.eng] 50-2056
- Geochemistry of niveo-eolian sediments in Spitsbergen. Górniak, A., et al. [1993.eng] 50-2200
- Greenland ice core record of Holocene climate. O'Brien, S.R., et al. [1995.eng] 50-1797
- Historical records of fatty acids in an ice core from Site-J, Greenland. Kawamura, K., et al. [1995.eng] 50-3247
- Hydrology of Bregger Glacier, Spitsbergen. Kodama, Y., et al. [1995.eng] 50-3249

- Ice-edge hydrography between Elephant I. and the South Orkneys, summer 1988-1989. Figueiras, F.G., et al. [1990.spa] 50-5525
- Influence of forest fire aerosols on sampling of polar atmospheres. Polissar, A.V., et al. [1996.eng] 50-5206
- Inorganic nutrients in the marginal ice zone of the Bellingshausen Sea in spring. Whitehouse, M.J., et al. [1995.eng] 50-1023
- Interpretation of OCIO measurements. Sessler, J., et al. [1995.eng] 50-1521
- Laptev Sea System: Expeditions in 1994. Kassens, H., ed. [1995.eng] 50-3156
- Manual for highway winter anti-icing practices. Ketcham, S.A., et al. [1996.eng] 50-6060
- Measuring firn thickness and accumulation temperature. Craig, H., et al. [1996.eng] 50-3640
- Missing chemistry of reactive nitrogen in the upper stratospheric polar winter. Kawa, S.R., et al. [1995.eng] 50-1189
- Molecules on ice. Clary, D.C., [1996.eng] 50-4858
- New simple route to the synthesis of protease substrates in ice. Ullmann, D., et al. [1996.eng] 50-6713
- O₂ on Ganymede: spectral characteristics and plasma formation mechanisms. Calvin, W.M., et al. [1996.eng] 50-4256
- Ottawa tests low-cost salt pre-wetting system. Miner, M., [1995.eng] 50-3292
- Particulate organic matter in Terra Nova Bay in summer 1990. Fabiano, M., et al. [1996.eng] 50-3702
- Phytoplankton response to fluctuating UVB. Karentz, D., et al. [1995.eng] 50-1323
- Polar clouds and sulfate aerosols. Tolbert, M.A., [1996.eng] 50-5066
- Polar stratospheric cloud influence on arctic atmospheric chemistry. Jones, R.L., et al. [1990.eng] 50-6023
- Process and product for removing ice or snow from a traffic surface. Dieupart, F., [1995.eng] 50-3468
- PSC nucleation hindered by H₂SO₄-H₂O. Koop, T., et al. [1996.eng] 50-5068
- Radiative forcing of climate. Ramaswamy, V., et al. [1991.eng] 50-2786
- Radionuclide distribution in the marginal ice zone in the Bellingshausen Sea. Shimmield, G.B., et al. [1995.eng] 50-1029
- Reconstruction of O₃ and N₂O fields from ER-2, DC-8, and balloon observations. Lait, L.R., et al. [1990.eng] 50-6017
- Review of the geochemistry of methane in natural gas hydrate. Kvenvolden, K.A., [1995.eng] 50-6229
- Saharan dust recorded in Swiss alpine snow cover. Schwikowski, M., et al. [1995.eng] 50-778
- Simulating the evolution of the chemical composition of the 1988/89 winter vortex. Jones, R.L., et al. [1990.eng] 50-6024
- Solar particle origin for polar ice core nitrate anomalies. Zeller, E.J., et al. [1995.eng] 50-1184
- Source gases: concentrations, emissions, and trends. Fraser, P., et al. [1991.eng] 50-2782
- Stratospheric processes: observations and interpretation. Brune, W.H., et al. [1991.eng] 50-2785
- Structure of microphytoplankton assemblages. Froneman, P.W., et al. [1995.eng] 50-1324
- Summer phytoplankton bloom under fast ice around Showa Station. Odate, T., et al. [1996.eng] 50-6037
- Surface spectrometry of arctic seasonal atmospheric ozone variations. Pommerehne, J.P., et al. [1988.eng] 50-4636
- Suspended particulates and plankton during retreat of the marginal ice zone in the Bellingshausen Sea. Robins, D.B., et al. [1995.eng] 50-1026
- Use of thermal analysis in the development of a better understanding of frozen food stability. Goff, H.D., [1995.eng] 50-3357
- Variations in atmospheric methane. Brook, E.J., et al. [1996.eng] 50-6196
- Water column and sea-ice primary production during Austral spring in the Bellingshausen Sea. Boyd, P.W., et al. [1995.eng] 50-1027
- See (also): Atmospheric composition; Frozen ground chemistry; Geochemistry; Ice composition; Snow composition; Soil chemistry; Soil composition; Water chemistry
- Chemical ice prevention**
- Alkaline snow-melting agents containing chlorides and lime for pavements and roads. Ekusa, K., et al. [1996.eng] 50-5591
- Alternative deicing chemicals research. Woodham, D., [1994.eng] 50-1072
- Anti-icing and anti-misting formulations. Meric, Y.A., et al. [1993.eng] 50-2339
- Anti-icing: a bold new strategy. [1995.eng] 50-490
- Balancing safety and the environment. Mericas, D., et al. [1994.eng] 50-2123
- Calcium chloride production process. Davidson, C.M., et al. [1993.eng] 50-2235
- Combined effect of acid and deicer solutions on fiber-reinforced hardened cement pastes. Fujii, T., [1995.eng] 50-2677
- Composition of deicer impregnated in aggregate for pavement. Pattengill, M.G., et al. [1995.eng] 50-1205
- Compositions containing ammonium salts and urea for melting of snow. Abe, H., et al. [1995.eng] 50-4595
- Current status and trends in countermeasures against snow and cold on highways. Murakami, M., [1988.jpn] 50-2281
- Development of equipment for pulverizing solid deicers. Inui, T., et al. [1992.jpn] 50-3142
- Developments in airport ice control chemicals. Townshend, T., [1995.eng] 50-3119

Chemical properties

- Direct calcium magnesium acetate production. Flickinger, M.C., et al. [1992,eng] 50-2230
- Effect of deicers on roadside trees in Hokkaido. Miyamoto, S., et al. [1995,jpn] 50-6788
- Effects of anti-icing fluid on wing lift during supercooled precipitation. Bouchard, G., et al. [1995,eng] 50-3255
- Effects of deicing salt on vegetation along highways in Sweden. Backman, L., et al. [1995,eng] 50-4602
- Evaluation procedures for deicing chemicals and improved sodium chloride. Chappelow, C.C., et al. [1993,eng] 50-875
- Freezing and thawing resistance of concrete pavers saturated in de-icing chemicals. Ghafoori, N., et al. [1995,eng] 50-2638
- Fuzzy-controller for flow and mixture regulation in an aircraft deicing vehicle. Knappe, H., [1993,eng] 50-2298
- Ground deicing. George, F., [1995,eng] 50-3688
- Ice formation on the guywires of Hydro-Québec telecommunications towers. Gastonguay, L., et al. [1996,eng] 50-5402
- Ice-pavement bond disbonding—fundamental study. Blackburn, R.R., et al. [1993,eng] 50-876
- Impact of deicing chemicals on plants in Hokkaido. Miyamoto, S., et al. [1994,jpn] 50-2828
- Industry researchers develop variety of ice sensors. Hughes, D., [1993,eng] 50-481
- Iowa tests anti-icing strategies. [1995,eng] 50-1557
- Military specification MIL-D-83411A(USAF). Deicer/anti-icer fluid (for runways and taxiways). U.S. Air Force, [1973,eng] 50-4607
- Molecular studies of a winter flounder antifreeze polypeptide. McDonald, S.M., [1995,eng] 50-676
- No ice on board. Johnson, J.P., et al. [1995,eng] 50-1973
- Pretreating salt with liquid calcium chloride for ice control on urban streets. Dunn, W., et al. [1995,eng] 50-3118
- Process and product for removing ice or snow from a traffic surface. Dieupart, F., [1995,eng] 50-3468
- Research overview of ground de/anti-icing products. Bernardin, S., et al. [1996,eng] 50-5401
- Results of black ice inhibiting filler use on asphalt test sections. Arand, W., [1995,ger] 50-2841
- Soil water pressure measurements in subzero air temperatures. Gordon, D.S., et al. [1995,eng] 50-420
- Test program for aircraft ground anti-icing fluids. Myers, B.B., [1992,eng] 50-3797
- Tests clear snow, path for use of liquid anti-icing in northwest. Deep, D., et al. [1995,eng] 50-1954
- See [also]: Salting

Chemical properties

- Airborne hydrogen peroxide measurements in supercooled clouds. Snider, J.R., et al. [1995,eng] 50-2114
- Another look at oil transportation in and from the arctic environment. Marsden, S.S., Jr., et al. [1991,eng] 50-1711
- Arctic haze phenomenon. Shaw, G.E., [1995,eng] 50-4569
- Arctic ozone depletion observed by UARS MLS during the 1994-95 winter. Manney, G.L., et al. [1996,eng] 50-3603
- Arctic ozone hole—a myth or a possibility. Singh, O.N., et al. [1995,eng] 50-4529
- Atmospheric deposition at Niwot Ridge, CO. Rusch, D., et al. [1995,eng] 50-2395
- Can inorganic chemical species volatilize from snow. Cragin, J.H., et al. [1995,eng] 50-2393
- Carbon acquisition and growth of antarctic sea ice diatoms in closed bottle incubations. Gleitz, M., et al. [1996,eng] 50-5455
- Cement and lime for deep stabilization of soil. A chemical-physical study of stabilization effects. Ånberg, H., et al. [1995,swe] 50-2168
- Changes of model mixtures during freezing and drying. Shalaev, E.I., et al. [1996,eng] 50-4531
- Characterization of a novel ice-nucleating bacterium. Kawahara, H., et al. [1995,eng] 50-1960
- Chlorine budget of the lower polar stratosphere. Shindell, D.T., et al. [1995,eng] 50-3091
- Comment on paper by Chipperfield et al. Schiller, C., et al. [1996,eng] 50-5462
- Comment on paper by Schaefer et al. Davies, T.D., et al. [1996,eng] 50-3647
- Differentiation of Ob and Yenisei waters in the Kara Sea by alkalinity and silicate. Stunzhas, P.A., [1995,eng] 50-6688
- Dry depositional loading of nitrogen to an alpine snowpack. Niwot Ridge, Colorado. Cress, R.G., et al. [1995,eng] 50-2396
- Ecogeological investigations, Kola Peninsula: sulphur and trace element content in snow. Åyräs, M., et al. [1995,eng] 50-4081
- Ecologic-genetic analysis of tundra-steppe soils in northeastern Siberia. Cherniakhovskii, D.A., [1996,eng] 50-5447
- Effects of acidification on plankton biomass in high mountain lakes. Engle, D., et al. [1995,eng] 50-2149
- Equilibrium constant for the reaction of $\text{ClO} + \text{O}_2 \leftrightarrow \text{ClO}_2$. Demore, W.B., [1990,eng] 50-4732
- Evaluation of frost action on concrete. Kleiner, V.D., [1996,eng] 50-4367
- Evidence for the removal of gaseous HNO_3 inside the arctic polar vortex in January 1992. Höpfner, M., et al. [1996,eng] 50-3064
- Fish antifreeze protein inhibition of liposome leakage. Hays, L.M., et al. [1996,eng] 50-6220
- Freeze-thaw effects on photoproduction of hydrogen peroxide in cloud waters. Arakaki, T., et al. [1995,eng] 50-1969
- Fuel additive impairment of diesel fuel low temperature properties. Létoffé, J.M., et al. [1995,eng] 50-4252

- Heterogeneous chemistry of polar stratospheric clouds. Mather, J.H., et al. [1990,eng] 50-4726
- Hydrochemical study of snow meltwater and snow cover. Suzuki, K., [1995,eng] 50-2404
- Inexpensive water collectors for study of surface water acidification during snowmelt. Gaskin, G.J., et al. [1995,eng] 50-1569
- Infrared measurement of arctic atmospheric chemical species. Wetzel, G., et al. [1995,eng] 50-2115
- Ion chemistry controls for a Chinese river. Williams, M.W., et al. [1995,eng] 50-2604
- Lake acidification during mountain snowmelt. Stoddard, J.L., [1995,eng] 50-4076
- Model of arctic air pollution by sulfur aerosols. Dastoor, A.P., et al. [1996,eng] 50-5450
- Nitric acid in polar stratospheric clouds. Pueschel, R.F., et al. [1990,eng] 50-5997
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995,eng] 50-1866
- Paleoecological study of fire-induced lake water acidity variations. Korhola, A., et al. [1996,eng] 50-5020
- Planetary waves in total ozone and their relation to antarctic ozone depletion. Bodeker, G.E., et al. [1995,eng] 50-4541
- Pleistocene paleosol development in northwest Alaska. Höfe, C., et al. [1996,eng] 50-6517
- Pressure cutoff effects on polar stratospheric chemistry. Cerniglia, M.C., et al. [1995,eng] 50-588
- Reactivity of ClONO_2 on H_2^{18}O ice and organic liquids. Hanson, D.R., [1995,eng] 50-1416
- Relationship between atmospheric composition and snow composition for HCl and HNO_3 . Dominé, F., et al. [1995,eng] 50-2392
- Report on acidification in the arctic countries. Nenonen, M., [1991,eng] 50-3418
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- Satellite observation of arctic ozone depletion. Müller, R., et al. [1996,eng] 50-6636
- Seasonal variability in high mountain lake water chemistry. Wögrath, S., et al. [1995,eng] 50-4077
- Simulated effects of dichlorine hexoxide on stratospheric ozone depletion. Parthiban, S., et al. [1995,eng] 50-2019
- Snow. Colbeck, S.C., [1996,eng] 50-4614
- Soil properties beneath ceanothus and pine stands in the eastern Sierra Nevada. Johnson, D.W., [1995,eng] 50-630
- Sounding of nitric acid aerosol in the arctic stratosphere. Schlager, H., et al. [1990,eng] 50-4724
- Sources of acidity in fresh snowfall elemental concentrations. Baisden, W.T., et al. [1995,eng] 50-2126
- Sources of biogenic sulfur in the high Arctic. Hopke, P.K., et al. [1995,eng] 50-589
- Spaceborne observation of atmospheric precursors to polar stratospheric cloud formation. Geller, M.A., et al. [1995,eng] 50-4539
- Stratigraphic detection of Greenland ice sheet chemical changes. Wolff, E.W., et al. [1995,eng] 50-584
- Streamwater quality variations in a Colorado alpine environment. Caine, N., [1995,eng] 50-4189
- Weathering of aeolian dusts in alpine snows. Delmas, V., et al. [1996,eng] 50-4588

Chemical reactions

See [also]: Photochemical reactions

Chemiluminescence

- Natural chemiluminescence of the marine environment under conditions of polar day and night. Lapshin, A.I., [1991,rus] 50-1315

Chemistry

- Biogenic emission of organobromine compounds to the Arctic Ocean and atmosphere. Sturges, W.T., et al. International Conference on Natural-Produced Halogens. Delft, The Netherlands. 1995. Edited by A. Grimwell and E.W.B. de Lee. [1995,eng] 50-4825
- See [also]: Frozen ground chemistry; Geochemistry; Hydrogeochemistry; Soil chemistry; Water chemistry

Chernozem

- Diagnostics of solonchaks: a class of salt-rich soils. Pankova, E.I., et al. [1995,eng] 50-3874
- Genesis of mountain-meadow and mountain-meadow-steppe chernozem-like soils. Evdokimova, T.I., et al. [1995,rus] 50-3972

- Russian soil geography as indicated by a new detailed map. Andronikov, V.L., et al. [1995,eng] 50-3873

- Typization of elementary soil-cover structures occurring in European Russia. Simakova, M.S., [1995,eng] 50-3878

Chile

- Interhemispheric correlation of Late Pleistocene glacial events. Lowell, T.V., et al. [1995,eng] 50-231
- Late-glacial palynology of the Myrtaceae of southern Chile. Zhou, M.M., et al. [1996,eng] 50-4744
- Phytogeographic relationships in the cool temperate rainforests of Chile. Arroyo, M.T.K., et al. [1996,eng] 50-4064
- Pleistocene altiplanation in northern Chile. Kött, A., et al. [1995,eng] 50-4947
- Pleistocene mountain glacier fluctuation in Chile. Andersen, B.G., et al. [1995,eng] 50-516
- Temperate rainforest lakes of Chile and British Columbia. Soto, D., et al. [1996,eng] 50-4066
- Chile—Andes Mountains**
- Cold resistance mechanisms in high desert Andean plants. Squeo, F.A., et al. [1996,eng] 50-5774

- Snow in the Chilean Andes and its natural hazards. Ugarte, G., [1995,fre] 50-4690
- Vegetation and ecology of tropical mires in the high Andes of northern Chile. Ruthsatz, B., [1995,ger] 50-4530
- Chile—Chilote Archipelago**
- Water fern residue as Chilean paleoclimatic indicator. Heusser, C.J., et al. [1996,eng] 50-5488
- Chile—Darwin Cordillera**
- Recent responses of Chilean glaciers to climatic changes. Holmlund, P., et al. [1995,eng] 50-1868
- Chile—Laguna San Rafael**
- Marine ecology of the Laguna San Rafael (southern Chile): ice scour and opportunism. Davenport, J., [1995,eng] 50-1105
- Chile—Magellan Strait**
- Last glaciation in central Magellan Strait, southernmost Chile. Clapperton, C.M., et al. [1995,eng] 50-964
- Chile—Patagonia**
- Fluctuations of the South Patagonian ice-field during the last glaciation and the Holocene. Marden, C.J., et al. [1995,eng] 50-6211
- Holocene glacial chronology in Patagonia: Tyndall and Upsala glaciers. Aniya, M., [1995,eng] 50-2806
- Lateglacial and Holocene variations of the Grey Glacier, an outlet of the South Patagonian icefield. Marden, C.J., [1993,eng] 50-3013
- Paleoecological implications of Patagonian Quaternary pollen diagrams. Heusser, C.J., [1995,eng] 50-2164
- Recent oscillations of the San Quintin and San Rafael glaciers, Patagonian Chile. Winchester, V., et al. [1996,eng] 50-5579
- Chile—San Rafael**
- Characteristics of tide-water calving at Glacier San Rafael, Chile. Warren, C.R., et al. [1995,eng] 50-450
- China**
- Assessing the hazard of too much or too little snow in the pastoral regions of China. Gu, Z.W., et al. [1995,chi] 50-3976
- Boundary of permafrost region in east China during last glacial epoch. Xu, S.Y., et al. [1989,chi] 50-1357
- Chinese loess accumulation compared to Greenland ice core climatology. An, Z.S., et al. [1995,eng] 50-1065
- Climatic influences on Chinese water resources. Shi, Y.F., et al. [1995,eng] 50-4231
- Demarcation and paleotemperatures of the last glaciation in northern China. Sun, J.Z., et al. [1989,chi] 50-1358
- Desertification and its control in China. Zhu, Z.D., et al. [1989,chi] 50-1851
- Drought and salt resistant plants in arid regions of China. Omasa, K., et al. [1991,jpn] 50-1442
- Effects of climatic change on permafrost in the arid and semi-arid regions of China. Xie, Y.Y., [1995,eng] 50-3391
- Geocryology research in China in the last decade: review and prospect. Cheng, G.D., [1995,eng] 50-4511
- Guidebook on debris flow control. Zhou, B.F., ed, et al. [1991,chi] 50-5008
- Hydrogeology and engineering geology of permafrost zones. Yang, R.T., et al. [1986,chi] 50-1169
- Japan-China Joint Study on Desertification. Apr. 1990-Mar. 1991. Japan. Science and Technology Agency. Research and Development Bureau (Kagaku gijutsucho Kenkyu kaihatsumoku). [1991,jpn] 50-1421
- Late Pleistocene environment of north China. Zheng, H.H., et al. [1991,chi] 50-1844
- Method for the study of Quaternary environmental evolution of the loess plateau in China. Zhang, Z.H., et al. [1995,eng] 50-1045
- Output design of GIS production of snow disaster monitoring and assessment system. Li, X., et al. [1995,chi] 50-3990
- Paleoclimatic models of Chinese loess and paleosol sequences. Thompson, R., et al. [1995,eng] 50-2542
- Permafrost in China: past and present. Qiu, G.Q., et al. [1995,eng] 50-664
- Quaternary of the loess plateau. Sun, J.Z., ed, et al. [1991,chi] 50-2010
- Quaternary processes in eastern China and international correlation. Yang, Z.G., et al. [1993,chi] 50-1843
- Research on clay minerals in salt lakes of China. Xu, C., [1993,chi] 50-1850
- Satellite imagery for soil conservation in the loess plateau. Wang, C.Y., ed, et al. [1990,chi] 50-4165
- Short pulse radar soundings from glaciers of Peru and China. Thompson, L.G., [1992,eng] 50-67
- Snow and sea ice correlation to Chinese summer air temperatures. Fu, C.B., [1983,eng] 50-4099
- World of snow and ice. Kotliakov, V.M., [1994,rus] 50-1420
- China—A'he Lake**
- Paleoclimatological significance of Quaternary diatom lake deposits in Qinghai-Xizang (Tibet). Li, J.Y., et al. [1994,eng] 50-1536
- China—Altay Mountains**
- Snow cover effect on the heat and water balance in northwestern China. Kondo, J., et al. [1996,jpn] 50-6729
- China—Anhui Province**
- Freeze sinking construction of Xie Qiao coal mine. Zhang, Y.X., [1992,eng] 50-42
- China—Badain Jaran Desert**
- Geomorphological studies on the arid regions of northwest China. Yang, X.P., [1991,ger] 50-2770
- China—Bohai Sea**
- Buried loess in the Bohai Sea bottom and exposed along the coast. Liu, J.P., et al. [1995,chi] 50-4125

China—Gansu Province

China—Gansu Province

- Frost heave along banks of canals. Zhu, Q., et al. [1989,chi] 50-1361
- Optical processing of satellite images for land use planning in north central China. Liu, J.H., [1995,chi] 50-3996
- China—Greater Khingan Range**
- Afforestation of larch in autumn. Wang, T.X., et al. [1991,chi] 50-5847
- Collected papers on forest management in the cold temperate zone. Lou, Y.H., ed. et al. [1991,chi] 50-5839
- Controlling the density of natural young growth stands of larch. Zhu, L.Y., et al. [1991,chi] 50-5848
- Experiments on afforestation by aerial seeding in the cold temperate zone. Wang, T.X., et al. [1991,chi] 50-5846
- Forest fire of May 6, 1987, in the Greater Khingan Range. Lou, Y.H., [1991,chi] 50-5853
- Introduction of *Larix olgensis* into the Greater Khingan Range. Liu, X.T., et al. [1991,chi] 50-5850
- Natural regeneration in cut forests of the Greater Khingan Range. Zhou, W.Q., [1991,chi] 50-5843
- Permafrost degradation in the Greater Khingan Range. Yuan, H.Y., [1989,chi] 50-1349
- Permafrost hydrology in the Greater Khingan Range. Lin, F.T., et al. [1989,chi] 50-1344
- Permafrost in the coal mining area of the Greater Khingan Range. Guo, D.X., et al. [1989,chi] 50-1341
- Pine tree distribution in the permafrost zone of the Greater Khingan Range. Lu, G.W., [1989,chi] 50-1346
- Plant ecology of the Greater Khingan Range permafrost zone. Yang, K.C., [1989,chi] 50-1347
- Preliminary study on the growth rate of major forest communities in the Greater Khingan Range. Gu, Y.C., [1991,chi] 50-5851
- Problems of natural reforestation of Dahurian larch (*Larix gmelini*) Lou, Y.H., [1991,chi] 50-5842
- Regeneration in cut natural stands of Dahurian larch. Tu, C.H., et al. [1991,chi] 50-5844
- Restoration of the burned forest area in the Greater Khingan Range. Cheng, H.Z., [1991,chi] 50-5854
- Restoration of the forest fire disaster area in the Greater Khingan Range. Wang, S.X., [1991,chi] 50-5855
- Spaced cutting in natural larch stands. Liu, X.T., et al. [1991,chi] 50-5849
- Study on artificial acceleration of natural regeneration. Lou, Y.H., [1991,chi] 50-5845
- Study on predicting the fruit bearing patterns of Dahurian larch. Liu, X.T., et al. [1991,chi] 50-5840
- Study on shortening the seedling growing period for Dahurian larch (*Larix gmelini*). Zhang, W.Y., [1991,chi] 50-5841
- Underground water of permafrost area in Da Hinggan Ling. Zheng, Q.P., [1989,chi] 50-1343
- Wild flowering plants of the Greater Khingan Range and their value for park projects. Lu, Z., et al. [1991,chi] 50-5852
- China—Heilongjiang Province**
- Dynamic responses of highway bridge under shock forces of icefloe. Cai, Z.R., et al. [1995,eng] 50-192
- River discharge and soil freezing depth during winter in Heilongjiang. Liu, F.S., [1989,chi] 50-1352
- Sliding of the slope of railway embankment in permafrost region and its treatment. Wang, W.B., [1989,chi] 50-1395
- China—Henan Province**
- Sinking of main shaft in Chengsilou Mine without freeze tube breakage. Pang, R.Q., [1992,eng] 50-39
- China—Hengduan Mountains**
- Utilization and protection of natural resources in the Hengduan Mountains region. Li, M.S., [1992,chi] 50-1482
- China—Himalaya Mountains**
- Paleoclimatic changes on the northern side of the central Himalaya. Fort, M., [1996,eng] 50-5096
- China—Hoh Xil Mountains**
- Hot springs in the Hoh Xil Mountains. Zheng, X.S., et al. [1992,chi] 50-1507
- Permafrost variations at Mt Fenghuo in the Hoh Xil Mountains of Qinghai. Zhang, T.J., et al. [1989,chi] 50-1348
- China—Inner Mongolia**
- Climate of Inner Mongolia. Wang, W.H., ed. [1990,chi] 50-2172
- Economic geography of the Inner Mongolia Autonomous Region. Gang, G.E., ed. et al. [1992,chi] 50-2171
- Grassland ecosystems in eastern Inner Mongolia. Nemoto, M., [1991,jpn] 50-1440
- Natural resources of Inner Mongolia. Eer, D., ed. [1987,chi] 50-2290
- Pedogenesis and vegetation in desert areas of Inner Mongolia. Hatta, T., [1991,jpn] 50-1441
- Preventing frost damage to irrigation canals by geotextile. Chen, L., et al. [1996,eng] 50-6167
- Quaternary loess and stratigraphy in Inner Mongolia. Dong, G.R., et al. [1986,chi] 50-1991
- Salt lakes of Inner Mongolia. Zheng, X.Y., et al. [1992,chi] 50-1849
- Study on soil erosion in Inner Mongolia. Zhao, Y., et al. [1989,chi] 50-3269
- China—Jilin Province**
- Compilation of the map of seasonal frozen depth in Jilin Province at 1:2,000,000. Zhang, X., et al. [1989,chi] 50-1351
- Features of aviation landforms in the Changbaishan Mts. Song, C.Q., et al. [1995,chi] 50-5627
- China—Karakoram Mountains**
- Discussion on the Quaternary glaciations in the Karakoram-West Kunlun Mountains. Li, B.Y., et al. [1994,eng] 50-1534

- Glacier properties on Mt. Qogir. Karakorum. Qin, D.H., et al. [1994,eng] 50-1538
- Glacier resources in the Karakorum-Kunlun Mts. and their utilization. Su, Z., [1992,chi] 50-1489
- Karakorum ice cover variations during the last glaciation. Kühle, M., [1994,eng] 50-1533
- Paleogeographic implications of ostracod fauna in Karakorum Mountain lacustrine deposits. Li, Y.F., et al. [1994,eng] 50-1537
- Physical environment, its utilization and conservation of the Karakoram and Kunlun Mts. region. Zheng, D., [1992,chi] 50-1483
- Proceedings. [1994,eng] 50-1531
- China—Kunlun Mountain Pass**
- Permafrost along the highway in the Kunlun Mountain Pass of Qinghai Province. Wang, S.L., et al. [1989,chi] 50-1342
- China—Kunlun Mountains**
- Distribution, growth, and variation of glaciers in the Kunlun Mountains. Zhang, Z.S., et al. [1986,chi] 50-1989
- Glacier resources in the Karakorum-Kunlun Mts. and their utilization. Su, Z., [1992,chi] 50-1489
- Ice core records for analyzing desertification. Nakawo, M., et al. [1995,eng] 50-614
- Ice textures in an ice core from the Guliya Ice Cap. Huang, M.H., et al. [1995,eng] 50-4514
- Mass balance on the Dongkemadi and Meikuang glaciers in 1992/1993. Pu, J.C., et al. [1995,chi] 50-5621
- Mountain meadow soils of the western Kunlun Mountains. Zhang, L.D., et al. [1991,chi] 50-5114
- Physical environment, its utilization and conservation of the Karakoram and Kunlun Mts. region. Zheng, D., [1992,chi] 50-1483
- Proceedings. [1994,eng] 50-1531
- Source of Quaternary deposits at the foot of the West Kunlun Mountains. Xinjiang. Zhu, L.P., [1994,eng] 50-1539
- Takyr soils and cold desert gypsic soils in the western Kunlun Mountains. Gu, G.A., et al. [1992,chi] 50-1494
- China—Lianyungang**
- Comparative study of bottom sediment pollution in Lianyungang and Vladivostok harbors. Tkalin, A.V., [1995,eng] 50-5063
- China—Ordos Desert**
- Research on the natural resources and environment of the Ordos Plateau in Inner Mongolia. Li, B., ed. et al. [1990,chi] 50-2011
- China—Qaidam Basin**
- Basic characteristics and paleoclimatic evolution of Qarhan Salt Lake. Chen, K.Z., et al. [1986,chi] 50-1984
- Changes in the Late Cenozoic environment of the Gonghe Basin in Qinghai. Xu, S.Y., [1986,chi] 50-1983
- Chemistry of salt minerals and their depositional environment in the Qaidam Basin. Dong, J.H., [1986,chi] 50-1988
- Fossil charophytes from the Qaidam Basin. Tang, L.H., et al. [1991,chi] 50-2032
- Geochemical evolution and paleoclimatology of a salt lake in the Qaidam Basin. Han, F.Q., et al. [1995,chi] 50-4126
- Late Cenozoic discharge and environmental evolution of the Qaidam Basin in Qinghai. [1986,chi] 50-1981
- Lithium and boron geochemistry of salt lakes in the Qaidam Basin. Zheng, X.Y., [1986,chi] 50-1992
- Origin of sylvests and salts in the Qaidam Basin. Yang, Q., [1986,chi] 50-1987
- Paleogeography of Cenozoic lithofacies and their evolution in the Qaidam Basin. Yang, Z.L., [1986,chi] 50-1982
- Pollen assemblages from a borehole in Dabsan Lake. Du, N.Q., et al. [1986,chi] 50-1986
- Preliminary study on fossil dunes in the Qaidam Basin. Zhong, D.C., [1986,chi] 50-1990
- Quaternary eolian deposits at a salt lake in the Qaidam Basin. Wang, J.D., et al. [1986,chi] 50-1994
- Research on Tertiary paleontology from the Qaidam Basin. Zhu, Z.H., et al. [1985,chi] 50-2033
- Salt lakes of Qaidam Basin. Zhang, P.X., et al. [1987,chi] 50-1845
- Some paleomagnetic study results in the Kuntay Lake region of the Qaidam Basin. An, Z.S., [1986,chi] 50-1993
- China—Qilian Mountains**
- Permafrost along the Xining-Zhangye Highway. Wang, S.L., et al. [1995,chi] 50-5628
- China—Qinghai Lake**
- Studies on the method of image processing and analysis of lake ice and snow. Li, W.J., et al. [1995,chi] 50-3995
- China—Qinghai Province**
- Drill cores from Qarhan Salt Lake. Yang, S.X., [1992,chi] 50-1488
- Dynamic research by remote sensing on typical region in the Yellow River Valley. Tian, G.L., ed. [1990,chi] 50-6649
- Features of potash sedimentation in the upper salt layer (S₄) in the Qarhan Salt Lake. Li, B.X., et al. [1992,chi] 50-1487
- Forecast of spring snowmelt runoff in the upper Yellow River. Lan, Y.C., et al. [1990,chi] 50-6652
- Forest resources of Qinghai. Sun, X.R., ed. et al. [1988,chi] 50-5822
- Information system for snowmelt runoff in Qinghai Province. Feng, X.Z., et al. [1990,chi] 50-6655
- ISWRIS information system for runoff forecasting of the upper Yellow River. Wang, J., et al. [1990,chi] 50-6656
- NOAA satellite snow cover monitoring of the upper Yellow River. Chen, X.Z., et al. [1990,chi] 50-6653
- On strategy of exploiting resources and their performance in Qinghai Province. Chen, Z.J., [1992,chi] 50-1478

China—Qinghai-Xizang Plateau

- Satellite snow monitoring and runoff forecasting for the Yellow River. Zeng, Q.Z., [1990,chi] 50-6650
- Studies on prediction method of snowmelt runoff in the upper reaches of the Yellow River. Song, Q., [1990,chi] 50-6654
- Study on the sequences of the Quaternary glaciations in the Bayan Har Mountains. Zhou, S.Z., [1995,chi] 50-5633
- Winter-spring snow cover distribution in the upper Yellow River. Chen, X.Z., et al. [1990,chi] 50-6651
- China—Qinghai Lake**
- Pleistocene geomorphology of Qinghai Lake, China. Nakao, K., et al. [1995,eng] 50-6717
- Qinghai Lake paleohydrological variations due to climatic changes. Nakao, K., et al. [1995,eng] 50-6718
- China—Qinghai-Tibet Highway**
- Effect of climate warming on the Qinghai-Tibet Highway. China. Tong, C.J., et al. [1996,eng] 50-3830
- China—Qinghai-Xizang Plateau**
- Advances in Qinghai-Xizang Plateau meteorology. Zhang, J.J., et al. [1988,chi] 50-2179
- Asphalt pavements in permafrost on the Qinghai-Xizang Highway. Li, N.Y., et al. [1996,eng] 50-6178
- Barley genetic resources on the Qinghai-Xizang Plateau. Xu, T.W., [1992,chi] 50-1492
- Basic features of glacial landforms in the Minshan. Tang, B.X., et al. [1994,eng] 50-4783
- Basic types of underground water in permafrost area on the Qinghai-Xizang Plateau. Guo, P.F., [1989,chi] 50-1345
- Catastrophic mass movements in the mountains around the Qinghai-Xizang Plateau. Fort, M., et al. [1995,eng] 50-4835
- Climate of the Qinghai-Xizang Plateau. Dai, J.X., ed. [1990,chi] 50-2173
- Climatic features near the Tanggula Pass in the centre of the Tibetan Plateau. Zhang, Y.S., et al. [1995,eng] 50-4513
- Climatological analysis of the snowmelt damage in Xizang. Lin, Z.Y., [1992,chi] 50-1496
- Contributions to research on Tibet. Pörtge, K.H., ed. et al. [1994,ger] 50-4774
- Critical height of asphalt-paved highway embankments in permafrost. Zhu, L.N., et al. [1989,chi] 50-1393
- Debris flows in the eastern Qinghai-Xizang Plateau. Tang, B.X., et al. [1994,eng] 50-4785
- Development of energy sources for the Qinghai-Xizang Plateau. Tong, W., [1992,chi] 50-1480
- Distribution of $\delta^{18}O$ in precipitation on the Qinghai-Xizang Plateau. Zhang, X.P., et al. [1995,eng] 50-4512
- Double wedging model for the Qinghai-Xizang Plateau. Zheng, J.D., [1992,chi] 50-1505
- Environment and resources of the Qinghai-Xizang Plateau. Liu, T.S., [1992,chi] 50-1476
- Environmental degradation in the northeastern Qinghai-Xizang Plateau. Zheng, Y.C., [1994,eng] 50-4786
- Establishment and application of DTM of the Qinghai-Xizang Plateau. Li, X., et al. [1995,chi] 50-3994
- Forecasting of deformation of asphalt paved frozen roadbed of the Qinghai-Xizang Highway. Wu, Z.W., et al. [1989,chi] 50-1392
- Frost denudation landforms at the hinterland on the Qinghai-Xizang Plateau. Zhang, W.X., et al. [1989,chi] 50-1354
- Genetic and ecological significance of alpine debris mulch soils. Liu, C.D., [1992,chi] 50-1493
- Geomorphological altitude zones in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4775
- Geotectonic evolution of the Qinghai-Xizang Plateau. Chang, C.F., [1992,chi] 50-1498
- Gondwana stratigraphy in the Qinghai-Xizang Plateau. Yin, J.X., [1992,chi] 50-1503
- Great Qinghai-Xizang ice sheet. Han, T.L., [1991,chi] 50-2176
- Holocene vegetation history of the eastern Qinghai-Xizang Plateau. Frenzel, B., [1994,ger] 50-4778
- Hydrological research on rivers and lakes in the Tibetan Plateau. Pörtge, K.H., [1994,ger] 50-4787
- Intracontinental subduction zones in the Tibetan Plateau and their magmatism. Deng, W.M., [1992,chi] 50-1499
- Lake ice and its remote sensing monitoring in the Tibetan Plateau. Chen, X.Z., et al. [1995,chi] 50-5634
- Landslide hazards along the highways of the Qinghai-Xizang Plateau. Wang, C.H., [1994,eng] 50-4784
- Late Quaternary sediments of the Qinghai-Xizang Plateau. Frenzel, B., et al. [1994,ger] 50-4779
- Monitoring snow cover on the Tibetan Plateau using passive microwave satellite data. Robinson, D.A., et al. [1995,eng] 50-4180
- Moraine types from the last glaciation in the Qinghai-Xizang Plateau. Liu, S.J., et al. [1994,eng] 50-4782
- Neotectonic framework of the boundary of the Qinghai-Xizang Plateau. Wu, X.H., et al. [1992,chi] 50-1501
- New paleontological evidence for continental drift in the Qinghai-Xizang Plateau. Wen, S.X., [1992,chi] 50-1506
- Oil and gas fields of Qinghai and Xizang. Gu, S.S., ed. [1990,chi] 50-2177
- On ancient ice-sheet and ice age in the Tibetan Plateau. Xu, D.M., et al. [1995,chi] 50-5632
- On the paleoclimatology of the Tibetan Plateau during the last glaciation. Frenzel, B., [1994,ger] 50-4777
- Paleoclimatic import of gravel deposits on a Chinese plateau. Liu, T.S., et al. [1996,eng] 50-5098
- Permafrost degeneration in the east of Tibetan Plateau. Zhu, L.N., et al. [1995,chi] 50-5618
- Permafrost on the Qinghai-Xizang Plateau. Li, S.D., et al. [1992,chi] 50-1490

China—Qinling Mountains

China—Xinjiang

- Pleistocene glaciations in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1993,eng] 50-1677
- Principal mineral resources and their distribution on the Qinghai-Xizang Plateau. Xu, Z.Y., et al. [1991,chi] 50-2295
- Proceedings of the first symposium on the Qinghai-Xizang Plateau. China Society of Qinghai-Xizang Plateau Research, Symposium, 1st. Mar. 1990. [1992,chi] 50-1475
- Progress in glaciology and Quaternary glaciation research in China since 1978. Shi, Y.F., et al. [1995,eng] 50-4510
- Qinghai-Xizang Plateau as a source region for climatic changes. Tang, M.C., et al. [1992,chi] 50-1479
- Qinghai-Xizang Plateau during the maximum glaciation. Shi, Y.F., et al. [1995,chi] 50-5616
- Quaternary glaciations in the eastern and central Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4776
- Recent debris flow disaster and its prevention in east Qinghai-Xizang Plateau. Tang, B.X., et al. [1992,chi] 50-1495
- Relations between weather systems affecting Tibetan Plateau and oxygen isotope in precipitation. Zhang, X.P., et al. [1995,chi] 50-5619
- Saline-lake resources on the Qinghai-Xizang Plateau and their developed prospect. Zheng, M.P., [1992,chi] 50-1486
- Shrinking of Quaternary lakes and environmental changes on the Tibetan Plateau. Zhao, Y.T., [1994,eng] 50-4781
- Some geological problems regarding salt lakes on the Qinghai-Xizang Plateau. Zhang, P.X., [1986,chi] 50-1985
- Study on some kinds of weather systems over and around the Qinghai-Xizang (Tibet) Plateau. Luo, S.W., et al. [1992,chi] 50-2178
- Study on theoretical problems of peat resources of the Qinghai-Xizang Plateau. Sun, G.Y., [1992,chi] 50-1497
- Tectonic features of the northwestern Qinghai-Xizang Plateau. Pan, Y.S., [1992,chi] 50-1500
- Tree-ring chronologies at the upper tree line in eastern Tibet. Bräuning, A., [1994,ger] 50-4780
- Vegetation and climate of Holocene megathermal in Zoige, northwestern Sichuan, China. Liu, G.X., et al. [1995,chi] 50-5635
- Vegetation and climatic changes in the Qinghai-Xizang Plateau. Liu, G.X., et al. [1995,chi] 50-5620
- China—Qinling Mountains**
- Early Pleistocene glaciation in the Qinling Mountains of China. Rost, K.T., [1992,ger] 50-1682
- China—Shaanxi Province**
- Study of remote sensing application in the loess plateau of north Shaanxi Province. Chinese Academy of Sciences, Institute of Remote Sensing Applications, Beijing (Zhongguo kexueyuan Yaogan yingyong yanjiusuo), [1991,chi] 50-6646
- China—Taklimakan Desert**
- Aeolian facies belts in the Taklimakan Desert. Li, B.S., et al. [1995,eng] 50-4127
- Changes in surface conditions of the Taklimakan Desert. Sugihara, S., [1991,jpn] 50-1425
- Desert and lake deposits in the Taklimakan Desert. Endo, K., et al. [1991,jpn] 50-1423
- Dust in glaciers around Taklimakan Desert. Han, J.K., et al. [1995,eng] 50-615
- Geomorphological studies on the arid regions of northwest China. Yang, X.P., [1991,ger] 50-2770
- Investigation of the surface condition in Taklimakan Desert. Tsuchiya, K., et al. [1991,jpn] 50-1426
- Isotopic analysis of groundwater in the Taklimakan Desert. Ushiki, H., et al. [1991,jpn] 50-1435
- Lidar measurements of global dust transport from the Taklimakan Desert. Itabe, T., et al. [1991,jpn] 50-1430
- Mapping of land use in the Taklimakan Desert. Sugihara, S., [1991,jpn] 50-1427
- Mineralogical and chemical analysis of Taklimakan Desert soil samples. Ishii, T., et al. [1991,jpn] 50-1428
- Paleoclimate of the Taklimakan Desert from glacier ice cores. Nakawo, M., [1991,jpn] 50-1424
- Plan for the Japan-China joint study of the Taklimakan Desert. Japan. Science and Technology Agency. Research and Development Bureau, [1991,jpn] 50-1422
- Salt precipitation and accumulation in the Taklimakan Desert. Okada, A., et al. [1991,jpn] 50-1429
- Stereo satellite image of sand particle transport in the Taklimakan Desert. Nagashima, H., [1991,jpn] 50-1433
- System for measuring moisture in the Taklimakan Desert soil. Fujitani, T., et al. [1991,jpn] 50-1436
- Transport of sand particles and dune shifting by wind in the Taklimakan Desert. Nagashima, H., [1991,jpn] 50-1431
- Transport of sand particles and dune shifting by wind in the Taklimakan Desert. Okumura, T., et al. [1991,jpn] 50-1432
- Water balance in the Taklimakan Desert. Kimura, T., et al. [1991,jpn] 50-1434
- China—Tarim Basin**
- Cretaceous/Tertiary marine stratigraphy and petroleum potential. Tarim Basin. Tang, T.F., et al. [1989,chi] 50-1847
- China—Tian Shan**
- Collected papers on the Quaternary in arid region Xinjiang. Xinjiang University, Xinjiang Geology and Mineral Resources Bureau, Xinjiang Branch Academy of Sciences, [1985,chi] 50-1995
- Digital terrain model of topographic obstruction to solar radiation in the Tian Shan. Li, X., et al. [1995,chi] 50-3997
- Gelifluction in the alpine periglacial environment of the Tianshan Mountains. China. Liu, G.N., et al. [1996,eng] 50-6704
- Glacier resources and distributive characteristics in the Central Asia Tianshan Mountains. Liu, C.H., [1995,chi] 50-5630
- Glaciers and lakes in the Tianshan Mountains as indicators of climatic change. Hu, R.J., et al. [1994,eng] 50-3998
- Holocene glacier variations in central Asia. Savoskul, O.S., et al. [1996,eng] 50-4372
- Impurities in surface meltwater from a Tian Shan glacier. Goto-Azuma, K., et al. [1995,eng] 50-613
- Loess layer and the palaeoclimate of northern piedmont of Tian Shan. Zhang, H.Y., et al. [1985,chi] 50-2003
- On the Quaternary paleoglacial action of the northern Tianshan. Zhang, H.Y., [1985,chi] 50-2001
- On the sedimentary environment in the northern piedmont of the eastern Tian Shan Mountains. Han, S.T., [1985,chi] 50-1999
- On the sedimentary environment of the glacioluvial terraces of the Tian Shan Mountains near Urumqi. Han, S.T., [1985,chi] 50-2002
- Pedogenic processes and evolution of the soils on moraines in alpine periglacial environments. Liu, G.N., et al. [1995,chi] 50-5631
- Response functions of tree-ring chronologies in western Tianshan Mountains. Yuan, Y.J., et al. [1995,chi] 50-5626
- Simulation of runoff processes of a continental mountain glacier in the Tian Shan, China. Kang, E.S., et al. [1995,eng] 50-2439
- Stria distribution and subglacial processes in the Tianshan Mountains. Cui, Z.J., et al. [1995,eng] 50-4520
- Tian Shan rock glaciers and periglacial processes. Cui, Z.J., et al. [1989,chi] 50-1355
- China—Tibet**
- Glacial isostatic uplift of Tibet as a consequence of a former ice sheet. Kuhle, M., [1995,eng] 50-6064
- Holocene environmental changes in a Tibetan lake basin, pt.1. Fontes, J.C., et al. [1996,eng] 50-5090
- Holocene environmental changes in a Tibetan lake basin, pt.2. Van Campo, E., et al. [1996,eng] 50-5091
- Holocene environmental changes in a Tibetan lake basin, pt.3. Fan, H., et al. [1996,eng] 50-5092
- Holocene environmental changes in a Tibetan lake basin, pt.4. Gasse, F., et al. [1996,eng] 50-5093
- Implications of forest heave for patterned ground, Tibet Plateau. China. Wang, B.L., et al. [1995,eng] 50-2808
- Importance of the correction of precipitation measurements on the Tibetan Plateau. Ueno, K., et al. [1996,eng] 50-5775
- Monitoring soil condition in the northern Tibetan Plateau using SSM/I data. Chang, A.T.C., et al. [1996,eng] 50-6692
- Paleoclimatic interpretation of topographic variations in Tibetan lake shorelines. Avouac, J.P., et al. [1996,eng] 50-5094
- Past and present glacial landforms of the central Qilian Shan. Lehmkühn, F., [1995,ger] 50-6077
- Permafrost on the Tibet Plateau. China. Wang, B.L., et al. [1995,eng] 50-1856
- Present glaciation in the mountains of Central Asia. Konov, A.G., [1972,rus] 50-556
- Radiocarbon balances of two Tibetan Lakes from 13,000 BP. Fontes, J.C., et al. [1993,eng] 50-5027
- Tibetan alpine ecosystem response to climatic changes. Zhang, Y.Q., et al. [1996,eng] 50-5495
- China—Urumqi River**
- Ion chemistry controls for a Chinese river. Williams, M.W., et al. [1995,eng] 50-2604
- Snow and water chemistry of a headwater alpine basin. Urumqi River, Tian Shan. China. Liu, F.J., et al. [1995,eng] 50-2413
- China—Xinjiang**
- Advanced classification system for Xinjiang soils. Li, Z.X., [1991,chi] 50-5112
- Afforestation control of disastrous snow drifting on rugged terraces in Xinjiang. Hu, R.J., et al. [1994,eng] 50-4000
- Amelioration of saline land in Xinjiang oases. Wang, G.F., et al. [1991,chi] 50-5119
- Analysis of the water and salt balance of the irrigated areas in the Yangji Basin. Song, Y.D., et al. [1991,chi] 50-5121
- Analysis on metamorphism of Ertix structural belt in northern Xinjiang. Sui, J.X., [1993,chi] 50-2370
- Application of chemical fertilizers in Xinjiang. Huang, Z.W., et al. [1991,chi] 50-5128
- Argid of Xinjiang—a calciorthid soil. Li, S.G., et al. [1991,chi] 50-5113
- Carboniferous litho facies-paleogeography and its tectonic condition in northern Xinjiang. Wei, Z.L., et al. [1993,chi] 50-2367
- Carboniferous siliceous rock and its relation to metallic sulfide deposits in northern Xinjiang. Yang, W.H., et al. [1993,chi] 50-2358
- Characteristics and formation of magnesian alkaline soils. Tian, C.Y., et al. [1991,chi] 50-5116
- Climate of Xinjiang. Li, J.F., ed. [1991,chi] 50-2174
- Climatic variation of Xinjiang in recent 3000 years. Li, J.F., [1985,chi] 50-1996
- Collected papers on the Quaternary in arid region Xinjiang. Xinjiang University, Xinjiang Geology and Mineral Resources Bureau, Xinjiang Branch Academy of Sciences, [1985,chi] 50-1995
- Depositional sequence of the Quaternary period in Xinjiang. Peng, X.L., [1985,chi] 50-2005
- Discussion on the division and correlation of Holocene series in Xinjiang. Bai, M.X., [1985,chi] 50-2007
- Early Pleistocene strata and the Quaternary lower boundary in northern Xinjiang. Lu, S.A., [1985,chi] 50-2006
- Effect of fertilizer on the quality and productivity of Jiashi melons. Zhao, G.H., et al. [1991,chi] 50-5124
- Effect of irrigation on the quality and productivity of Jiashi melons. Chang, Q., et al. [1991,chi] 50-5125
- Electrical and magnetic methods for gold exploration. Shi, K.F., et al. [1993,chi] 50-2387
- Ertix volcanic rocks and tectonic evolution. Yu, X.Y., et al. [1993,chi] 50-2364
- Evolutional and genetic mechanism of tectonics of Altay area. Zhang, X.B., et al. [1993,chi] 50-2363
- Fertilizers and enzyme activity of Jiashi melon field soils. Yue, H.X., et al. [1991,chi] 50-5126
- Forest resources in Xinjiang. Xinjiang Resources Development Comprehensive Survey Team of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang ziyuan kaifa zonghe kaochadui), [1989,chi] 50-5823
- Forty years of disaster mitigation in Xinjiang. Zhu, L.R., ed. et al. [1993,chi] 50-4166
- Fuzzy mathematics in evaluating the tillability of land in Xinjiang. Ji, F., [1991,chi] 50-5109
- General summary of the "Xinjiang 1:1,000,000 land resources map". Ji, F., et al. [1991,chi] 50-5108
- Genetic types of granitoids and their mineralization in northern Xinjiang. Wang, Z.G., et al. [1993,chi] 50-2359
- Geochemistry of the Ulugur-Zhaisangpo tectonic melange belt. Liu, W., et al. [1993,chi] 50-2366
- Geological evolution and diagenetic mineralization in Xinjiang. Tu, G.Z., [1993,chi] 50-2351
- Geology and mineralogy of some important nonmetal deposits. Cao, J.C., et al. [1993,chi] 50-2379
- Geophysical model of ore-bearing rock in Xinjiang. Zhang, S.Z., et al. [1993,chi] 50-2383
- Glacial drift and the glacial epoch in the Quaternary period of Xinjiang. Peng, X.L., [1985,chi] 50-2000
- Gold mineralization in western Junggar. Shen, Y.C., et al. [1993,chi] 50-2371
- Heavy metals in the podsol desert soils of the Fukang region. Xie, Y.Y., et al. [1991,chi] 50-5133
- High-alkaline intrusive rock belts in northern Xinjiang. Wang, Z.G., et al. [1993,chi] 50-2362
- Isotope geochemistry and crustal evolution of northern Xinjiang. Hu, A.Q., et al. [1993,chi] 50-2353
- Isotopic analysis of phosphorus in soils and crops of Xinjiang. Wu, G.H., et al. [1991,chi] 50-5130
- Land classification, land structure and comprehensive natural zonation of Xinjiang. Fan, Z.L., et al. [1991,chi] 50-5107
- Land in Xinjiang conducive to poplar tree farming. Jia, Z.J., et al. [1991,chi] 50-5110
- Late Pleistocene sedimentary environment near Urumqi. Han, S.T., et al. [1985,chi] 50-1998
- Low-yield land and its amelioration in Xinjiang. Zhang, B.Q., et al. [1991,chi] 50-5118
- Mafic intrusive body bearing Cu-Ni mineralization in Xinjiang. Yuan, Q.L., et al. [1993,chi] 50-2376
- Magmatic activities and its relation to tectonic setting and gold mineralization in western Junggar. Jin, C.W., et al. [1993,chi] 50-2360
- Metallogenic geology and geochemistry related to Ertix volcanism. Liu, T.G., et al. [1993,chi] 50-2375
- Metallogenic mechanism of Cu in Altay. Li, Z.C., [1993,chi] 50-2374
- Metallogenic mechanism of tungsten deposit in Alatau. Wang, K.R., et al. [1993,chi] 50-2373
- New advances in solid earth sciences in northern Xinjiang. Tu, G.Z., ed. [1993,chi] 50-2350
- New development in the study on Carboniferous biostratigraphy in northern Xinjiang. Liao, Z.T., et al. [1993,chi] 50-2356
- On the environmental and climatic changes in the Lop Nur area. Xia, X.C., et al. [1985,chi] 50-1997
- Ophiolitic belts and their genetic environment in western Junggar. Zhang, C., et al. [1993,chi] 50-2355
- Overlapping mineralization of Karatongki Cu-Ni deposit. Zhan, X.Z., [1993,chi] 50-2377
- Paleozoic stratigraphy of ophiolites and their tectonic setting in Xinjiang. Wu, H.R., et al. [1993,chi] 50-2361
- Pb isotope province and geochemical prospecting in northern Xinjiang. Zhu, B.Q., et al. [1993,chi] 50-2354
- Pb-Zn-Au deposits in Carboniferous strata of northern Xinjiang. Yang, W.H., et al. [1993,chi] 50-2357
- Plant communities and desertification in Xinjiang Province. Tanimoto, T., et al. [1991,jpn] 50-1439
- Plate and terrain tectonics of northern Xinjiang. Cao, R.L., et al. [1993,chi] 50-2352
- Pleistocene lacustrine record of a Chinese lake. Rhodes, T.E., et al. [1996,eng] 50-5095
- Primary division of Quaternary in Xinjiang. Yang, Z.X., et al. [1985,chi] 50-2004
- Problem on dividing the neotectonic units in Xinjiang. Bai, M.X., [1985,chi] 50-2008
- Rare earths in the granitoids of the Altay region. Zhao, Z.H., et al. [1993,chi] 50-2368
- Regional geochemistry of Alatau region. Li, S.G., et al. [1993,chi] 50-2369
- Regional metallogenic model of Alatau region. Man, F.S., et al. [1993,chi] 50-2372
- Remote sensing for mineral exploration in northern Xinjiang. Guo, H.D., et al. [1993,chi] 50-2384
- Selenium in the saline podsol and desert soils of the northern foothills of Tian Shan. Wang, Z.Q., [1991,chi] 50-5131
- Sino-Kazakhstan-Mongolia border area tectonics from satellite data. Yang, D.C., et al. [1993,chi] 50-2385
- Soils and melon cultivation in Jiashi County, Xinjiang. Li, P.Q., et al. [1991,chi] 50-5123
- Soils of the agricultural areas of Bayingolin Mongol Autonomous Prefecture in Xinjiang. Li, S.H., [1991,chi] 50-5120

China—Xiyang

- Soluble salts and heavy hydrogen in Bosten Lake. Huang, Z.W., et al. [1991,chi] 50-5134
- Stable isotopic character of mineralization of some deposits in northern Xinjiang. Zhang, G.X., et al. [1993,chi] 50-2378
- Studies on the soils and land resources of Xinjiang. Xinjiang Institute of Biology, Pedology, and Desert Research of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang shengwu turang shamo yanjiusuo), Urumqi, [1991,chi] 50-5106
- Study on a high-efficiency new type of urea fertilizer using ^{15}N . Xiong, J.M., et al. [1991,chi] 50-5129
- Study on alfalfa seedling cultivation technology in saline hardpan soil. Ma, S.Z., et al. [1991,chi] 50-5122
- Study on some problems of cold waves in Xinjiang. Xu, J.Q., et al. [1985,chi] 50-2175
- Study on the causes and control of bitter pit in apples. Yu, Q.L., et al. [1991,chi] 50-5127
- Study on the dynamics of chemical elements in desert saline soil-plant systems. Wang, Z.Q., et al. [1991,chi] 50-5132
- Trace element geochemistry of volcanic rocks along the Ertix River. Mei, H.J., et al. [1993,chi] 50-2365
- Using computers for MSS image analysis in land use classification. Cheng, X.J., et al. [1991,chi] 50-5111
- Using integrated numerical analytical microcomputer software in alkaline soil analysis. Yao, G.R., et al. [1991,chi] 50-5117
- China—Xiyang**
- Some characteristics of hail cloud formation processes in Xiyang area. Wang, A.S., et al. [1983,eng] 50-4098
- China—Xizang**
- Application of DTM to extraction of snowcover information from NOAA/AVHRR image. Feng, X.Z., et al. [1995,chi] 50-3983
- Applications of fuzzy cluster analysis to integrated assessment of snow disaster. Feng, X.Z., et al. [1995,chi] 50-3989
- Background database of snow disaster in Nagqu area of Xizang. Sun, W.X., et al. [1995,chi] 50-3979
- Characteristics of the post-glacial advance and retreat in Mount Xixia Bangma region. Zheng, B.X., [1982,chi] 50-6606
- Chemistry of meltwater from Mount Xixia Bangma. Zhang, S., et al. [1982,chi] 50-6601
- Clouds in the Himalaya Mountains. March through May. Qian, Z.J., [1982,chi] 50-6611
- Cretaceous and Tertiary deposits in southern Xizang. Zhou, Z.C., et al. [1992,chi] 50-1502
- Digital terrain information and its application in Nagqu area of Xizang. Lu, A.X., et al. [1995,chi] 50-3985
- Discovery of *Quercus semicarpifolia* fossils at Mount Xixia Bangma. Xu, R., [1982,chi] 50-6608
- Distribution and morphological types of recent glaciers in Mount Xixia Bangma region. Shi, Y.F., et al. [1982,chi] 50-6595
- Economic development strategy and regionalization of Xizang. Ni, Z.B., [1992,chi] 50-1477
- Evaluation of wheat germplasm resources in Xizang. Huang, H.L., et al. [1992,chi] 50-1491
- Evolution conditions of recent glacier in Mount Xixia Bangma region. Xie, Z.C., et al. [1982,chi] 50-6596
- Giving full play to the mineral resources, to promote the economic development in Xizang. Cao, Y.G., et al. [1992,chi] 50-1485
- Habitats and forest types in the mountains of southeastern Xizang. Xu, F.X., [1992,chi] 50-1484
- Ice pyramids and other ablation forms on Mount Xixia Bangma. Shi, Y.F., et al. [1982,chi] 50-6600
- Inquiry on ice ages in Mount Xixia Bangma region. Shi, Y.F., et al. [1982,chi] 50-6605
- Lakes and hydropower in Xizang. Wang, Y.L., [1992,chi] 50-1481
- Major characteristics of snow disaster in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3977
- Mass balance of Kangwura (flat-top) Glacier on the north side of Mt. Xixiabangma, China. Liu, S.Y., et al. [1996,eng] 50-5514
- Meteorological factors in the Himalaya Mountains. March through May. Wen, C.J., et al. [1982,chi] 50-6610
- Model of predicting snow disaster using NOAA/AVHRR data in Nagqu area of Xizang. Lu, A.X., et al. [1995,chi] 50-3987
- Model of snow disaster assessment using NOAA/AVHRR data in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3988
- Mountain meadow soils of Xizang. Zhang, B., [1991,chi] 50-5115
- Palynology of the Quaternary glaciolacustrine deposits of Mount Xixia Bangma. Chen, S.M., et al. [1982,chi] 50-6604
- Periglacial phenomena found in Mount Xixia Bangma region. Zheng, B.X., et al. [1982,chi] 50-6607
- Quaternary geology and geomorphology of Mount Xixia Bangma region. Liu, D.S., et al. [1982,chi] 50-6602
- Rangelands of Xizang (Tibet). Mou, X.D., et al. [1992,chi] 50-2296
- Report on the Mount Xixia Bangma region scientific expedition, 1964. [1982,chi] 50-6593
- Rivers and lakes of Xizang. Guan, Z.H., et al. [1984,chi] 50-1846
- Salt lakes in Xizang. Zheng, X.Y., et al. [1988,chi] 50-1848
- Snow cover and ice formation on the northern slope of Mount Xixia Bangma. Xie, Z.C., [1982,chi] 50-6597
- Snow monitoring from satellite data in Xizang. Feng, X.Z., et al. [1995,chi] 50-3986
- Soils of Xizang (Tibet). Gao, Y.X., et al. [1985,chi] 50-2297

- Spatial analysis operation of background database of snow disaster. Sun, W.X., et al. [1995,chi] 50-3980
- Studies on the methods of extracting snow information from NOAA/AVHRR image. Li, W.L., et al. [1995,chi] 50-3982
- Study of extracting remote sensing information of snow disaster in Nagqu area of Xizang. Li, Z., et al. [1995,chi] 50-3981
- Study on Quaternary moraine debris of Mount Xixia Bangma region. Zhang, S.Y., [1982,chi] 50-6603
- Study on snow disaster monitoring using remote sensing in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3978
- Surveying work in Mount Xixia Bangma region. Zhou, J.Q., et al. [1982,chi] 50-6594
- Synthetic analysis method of snow depth in Nagqu area of Xizang. Zeng, Q.Z., et al. [1995,chi] 50-3984
- Temperature conditions of the glaciers on the northern slope of Mount Xixia Bangma. Huang, M.H., [1982,chi] 50-6598
- Texture of glacier and river ice on Mount Xixia Bangma. Huang, M.H., [1982,chi] 50-6599
- Weather in the Himalaya Mountains. March through May. Qian, Z.J., [1982,chi] 50-6609
- China—Yarkant River**
- Floods resulting from glacial lake outbursts. Yrqiand River basin, Xinjiang. China. Li, J., et al. [1994,eng] 50-1535
- China—Yellow River**
- Dynamic research by remote sensing on typical region in the Yellow River Valley. Tian, G.L., ed. [1990,chi] 50-6649
- Forecast of spring snowmelt runoff in the upper Yellow River. Lan, Y.C., et al. [1990,chi] 50-6652
- Information system for snowmelt runoff in Qinghai Province. Feng, X.Z., et al. [1990,chi] 50-6655
- ISWRIS information system for runoff forecasting of the upper Yellow River. Wang, J., et al. [1990,chi] 50-6656
- NOAA satellite snow cover monitoring of the upper Yellow River. Chen, X.Z., et al. [1990,chi] 50-6653
- Satellite snow monitoring and runoff forecasting for the Yellow River. Zeng, Q.Z., [1990,chi] 50-6650
- Studies on prediction method of snowmelt runoff in the upper reaches of the Yellow River. Song, Q., [1990,chi] 50-6654
- Winter-spring snow cover distribution in the upper Yellow River. Chen, X.Z., et al. [1990,chi] 50-6651
- China—Yunnan Province**
- Simulation of Pleistocene glacial limits in Yunnan, China. Aniya, M., et al. [1991,eng] 50-3307
- Study and analysis of the factors having influence on ice coating of electric wires. Wang, S.L., [1996,eng] 50-5394
- Chlorinity**
- See [also]: Chemical properties
- Chlorophylls**
- Arctic plant chloroplast adaptation to low temperatures. Miroslavov, E.A., et al. [1996,eng] 50-6756
- Carotenoid composition and down regulation in three conifers. Adams, W.W., III, et al. [1995,eng] 50-1137
- Chlorophyll distribution in a body of fresh water covered with ice. Zavoruev, V.V., et al. [1996,eng] 50-5816
- Chlorophyll fluorescence as measure of Douglas fir cold hardiness. Fisker, S.E., et al. [1995,eng] 50-1287
- Chlorophyll fluorescence as spruce frost hardiness indicator. Binder, W.D., et al. [1996,eng] 50-6519
- Chlorophyll fluorescence in the Laptev Sea. Anoshkin, A.F., et al. [1995,eng] 50-2083
- Chlorophyll in the western Bering Sea. Mordasova, N.V., [1995,eng] 50-3605
- Cold acclimation of arctic grass photosynthetic apparatus. Koroleva, O.I.A., [1996,eng] 50-6755
- Consumption of nitrogen compound from snowpack by microbiological activity. Suzuki, K., et al. [1996,jpn] 50-6728
- Distribution of under-ice and ice phytoplankton in Lake Baykal. Zavoruev, V.V., et al. [1995,rus] 50-4106
- Doppler observations of Bering Sea ice edge ocean circulation. Okkonen, S., et al. [1995,eng] 50-1032
- Environment and ecosystems of Novaya Zemlya; the archipelago and shelf. Matishov, G.G., ed. [1995,rus] 50-5145
- Fall phytoplankton biomass. P-I relationships and primary production in the Weddell Sea. Dower, K.M., et al. [1996,eng] 50-4008
- Latitude as a factor in the calculation of primary production. Platt, T., et al. [1995,eng] 50-4129
- Level of biomass and chlorophyll content of the plant communities. Arctowski Station. Barcikowski, A., et al. [1989,pol] 50-2923
- Phytoplankton seasonal bloom shift in Barents Sea ice. Strass, V.H., et al. [1996,eng] 50-6721
- Primary production and chlorophyll in the Kara Sea in September 1993. Vedernikov, V.I., et al. [1995,eng] 50-3536
- Seasonal changes in photosystem II organisation and pigment composition in *Pinus sylvestris*. Olander, C., et al. [1995,eng] 50-1130
- Wind forcing of marine primary production in the northern atmospheric low-pressure belt. Sakshaug, E., et al. [1995,eng] 50-4130
- Chukchi Sea**
- Abundance and production of bacteria and viruses in the Bering and Chukchi Seas. Steward, G.F., et al. [1996,eng] 50-4158
- Atlas of Arctic icebergs. Abramov, V., [1996,eng] 50-6320
- Distribution of cesium-137 in Bering and Chukchi Sea marine sediments. Cooper, L.W., et al. [1995,eng] 50-5062
- DOC storage in arctic seas: the role of continental shelves. Walsh, J.J., [1995,eng] 50-1165
- Dusty deposits (loesses) of the contemporary arctic zone. Wojtanowicz, J., [1993,eng] 50-2214

- Ecosystem dynamics of the Bering and Chukchi Seas. Tsyban', A.V., [1995,eng] 50-3608
- Interannual variability of the ice cover in the Chukchi and Beaufort Seas. Chouinard, L.E., et al. [1995,eng] 50-187
- Intraseasonal changes in ice conditions and conditions for ice navigation in the 20th century. Zakharov, V., et al. [1996,eng] 50-4481
- Isotopic chronologies of Chukchi Sea continental shelf sediment fluxes. Baskaran, M., et al. [1995,eng] 50-1805
- Northern Sea Route: its development and evolving state of operations in the 1990s. Mulherin, N.D., [1996,eng] 50-4960
- Observation of momentum and heat transfers between ocean and atmosphere in the Chukchi Sea. Sasaki, Y., et al. [1996,eng] 50-4479
- Oil pollution in Arctic waters. Futsaeter, G., et al. [1991,eng] 50-3421
- Periodic variations in air-water gas exchange of Arctic Ocean insecticide pollutants. Jantunen, L.M., et al. [1995,eng] 50-1862
- Petroleum exploration opportunities on the U.S.-Russia Chukchi Sea continental shelf. Warren, T., et al. [1995,eng] 50-210
- Primary productivity and microbial variations in the Chukchi Sea. Cota, G.F., et al. [1996,eng] 50-5457
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- Satellite radar observations of Beaufort Sea autumn freeze-up. Winebrenner, D.P., et al. [1996,eng] 50-6218
- Sea ice concentrations derived from satellite microwave imagery. Lomax, A.S., et al. [1995,eng] 50-1244
- Shell to break Chukchi ice. [1989,eng] 50-5644
- Shell to the fore as Chukchi opens up. [1988,eng] 50-4968
- Chukotskiy Peninsula**
- Dry tundra succession in Central Chukotka. Kucherov, I.B., [1995,eng] 50-3173
- Peat formation in the tundra of the Amguema valley and the Anadyr' lowland. Smirnov, I.P., [1992,eng] 50-3435
- Circulation**
- See [also]: Atmospheric circulation; Drift; Ocean currents; Tidal currents
- Cirque glaciers**
- Glacial cirque formation in northern Scandinavia. Richardson, C., et al. [1996,eng] 50-6246
- Pleistocene paraglacial landsliding in South Wales. Shakesby, R.A., et al. [1996,eng] 50-5859
- Recent fluctuations of glaciers in Kongsfjorden, Spitsbergen, Svalbard (79°N). Lefauconnier, B., [1992,eng] 50-3436
- Cirques**
- Katabatic winds over an East Antarctic cirque. Jonsson, S., [1995,eng] 50-1338
- CIS**
- Potential ice ablation in the USSR. Khodakov, V.G., et al. [1972,rus] 50-522
- CIS—Amudar'ia River**
- River flow of organic matter and biogenic elements to the Aral Sea. Smirnov, M.P., [1991,rus] 50-732
- CIS—Aral Sea**
- Current problems in the Aral Sea and prospects for their solutions. Tsytsarin, A.G., et al. [1991,rus] 50-731
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- River flow of organic matter and biogenic elements to the Aral Sea. Smirnov, M.P., [1991,rus] 50-732
- CIS—Central Asia**
- Glacier resources and distributive characteristics in the Central Asia Tianshan Mountains. Liu, C.H., [1995,chi] 50-5630
- Morphometric characteristics of current glaciation in the mountains of Central Asia. Dolgushin, L.D., et al. [1972,rus] 50-528
- Present glaciation in the mountains of Central Asia. Konov-alova, G.I., [1972,rus] 50-556
- Role of glaciers in river runoff in Central Asia. Kemmerikh, A.O., [1972,rus] 50-523
- Reservoirs of Central Asia. Nikitin, A.M., [1991,rus] 50-2518
- Summer air temperature in the nival-glacial belt of the Central Asian mountain massif. Lebedeva, I.M., [1993,rus] 50-4104
- Vertical temperature gradient of the air in the high mountains of Central Asia. Davidovich, N.V., [1972,rus] 50-534
- CIS—Dukant River**
- Calculating snow depth in avalanche catchments. Kanaev, L.A., et al. [1991,rus] 50-6
- CIS—Kungey Alatau**
- Features of the regime and dynamics of the East Aksu glacier in the Kungey Alatau range. Fateev, V.P., et al. [1973,rus] 50-429
- CIS—Naryn River**
- Degradation of glaciation and runoff fluctuations in the upper Naryn River. Diurgerov, M.B., et al. [1994,rus] 50-3488
- City planning**
- See [also]: Urban planning
- Classifications**
- 6 ka BP reconstruction for Newfoundland from pollen records. Macpherson, J.B., [1995,eng] 50-1459
- Acoustic emissions during ice phase transformations. Sakharov, I.I., [1995,eng] 50-157
- Active patterned ground and cryoturbation on Muckish Mountain, Co. Donegal, Ireland. Wilson, P., et al. [1995,eng] 50-665
- Additions and range extensions to the vascular plant flora of the Northwest Territories, Canada. Cody, W.J., [1996,eng] 50-6342
- Aggregate degradation in the frost heave test. Hill, J., [1977,eng] 50-2320

Classifications

Classifications

- Aircraft icing over northwest Europe. Ashley, H., [1979,eng] 50-4402
- Aircraft observations of ice formation over the Japan Sea. Asuma, Y., et al. [1995,eng] 50-6716
- Algorithm for radiometric image mapping of global snow cover. Hall, D.K., et al. [1995,eng] 50-1809
- Algorithm to enhance sea ice concentration estimates from radiometric brightness temperatures. St. Germain, K.M., et al. [1992,eng] 50-3564
- Alpine plant diversity: a global survey and functional interpretations. Körner, C., [1995,eng] 50-3892
- Analysis of coastal ice cover using ERS-1 SAR data. Leshkevich, G., et al. [1995,eng] 50-1822
- Antifreeze glycoproteins and peptides in fish from the Weddell and Lazarev seas. Wöhrmann, A.P.A., [1996,eng] 50-3959
- Applicability of Soviet arctic mining technology to northern America. Skudrzyk, F.J., [1991,eng] 50-1743
- Applications of freshwater diatoms to geographical research. Moser, K.A., et al. [1996,eng] 50-5013
- Arctic algal communities in the region of the Nuvuk Islands, northeastern Hudson Bay, Canada. Keats, D.W., et al. [1989,eng] 50-3692
- Arctic fungi classification and structural analysis. Currah, R.S., et al. [1996,eng] 50-4264
- Arctic lichen collections from 1959 excursion. Thomson, J.W., et al. [1992,eng] 50-6522
- Arctic polar stratospheric cloud observations by airborne lidar. McCormick, M.P., et al. [1990,eng] 50-5988
- Arctic vegetation types as response predictors to global change. Chapin, F.S., III, et al. [1996,eng] 50-6557
- Atmospheric observing systems and their data management support structure. Stirling, L.M., [1994,eng] 50-3414
- Automatic ice motion retrieval from ERS-1 SAR images using the optical flow method. Sun, Y., [1996,eng] 50-5824
- Avalanche hazard mapping with satellite data and a digital elevation model. Gruber, U., et al. [1995,eng] 50-2345
- Avalanche incidents during the winter of 1993-94. Oberschmid, C., et al. [1994,ita] 50-1563
- Back to basics: world climatic types. Salmond, J., et al. [1996,eng] 50-3726
- Bacterial ecosystem dynamics in a high mountain lake. Alfried, A., et al. [1996,eng] 50-5681
- Beach sedimentation on paraglacial coasts. Forbes, D.L., et al. [1995,eng] 50-1119
- Beetle microhabitat distribution in a glacier ablation zone. Gerben, B.A., [1995,eng] 50-2812
- Biological productivity of Siberian ecosystems. Bazilevich, N.I., [1995,eng] 50-2713
- Bottom biocones of the Laptev Sea and adjacent areas. Sirenko, B.I., et al. [1995,eng] 50-2088
- Boundary layer characteristics of the continental margin of the western Barents Sea. Thomsen, L., et al. [1994,eng] 50-1245
- C-band backscatter measurements of winter sea-ice in the Weddell Sea, Antarctica. Drinkwater, M.R., et al. [1995,eng] 50-1817
- Causes and consequences of plant functional diversity in arctic ecosystems. Chapin, F.S., III, et al. [1995,eng] 50-3902
- Characterization of a novel ice-nucleating bacterium. Kawahara, H., et al. [1995,eng] 50-1960
- Chemical characterization of individual aerosol particles in central Siberia. Van Maalen, H., et al. [1996,eng] 50-4966
- Classification of arctic cloud and sea ice features in multi-spectral satellite data. Key, J.R., [1994,eng] 50-4357
- Classification of cryogenic polygonal relief. Vtiurina, E.A., et al. [1985,rus] 50-239
- Classification of halostorm systems in north China and the characteristics of halostorm cells. Yang, P.C., et al. [1983,eng] 50-4095
- Classification uncertainties within foraminifera species in McMurdo Sound, Antarctica. Bowser, S.S., et al. [1995,eng] 50-3345
- Clay minerals as sediment source indicators, Russian Arctic. Naidu, A.S., et al. [1995,eng] 50-1120
- Climatic implications of ostracode deposits in Greenland Quaternary sediments. Brouwers, E.M., et al. [1991,eng] 50-2564
- Cold region hydraulic oil applications. Uhrig, S.L., [1991,eng] 50-1758
- Comparative characteristics of polychaete taxocenes in Pevek Strait, Chum Bay, and Long Strait. Gagev, S.I.U., [1995,eng] 50-2534
- Comparison of second-order classifiers for SAR sea ice discrimination. Barber, D.G., et al. [1993,eng] 50-1446
- Competition of precipitation particles in a model with parameterized cloud microphysics. Wacker, U., [1995,eng] 50-413
- Composition and distribution of summer zooplankton in the Laptev Sea. Kosobokova, K., et al. [1995,eng] 50-2085
- Concentration changes of MSA and major ions in arctic aerosols during polar sunrise. Suzuki, K., et al. [1995,eng] 50-3251
- Contemporary status of bottom fauna in the Chernaya Bay (Novaya Zemlya Archipelago). Matishov, G.G., et al. [1996,eng] 50-4147
- Corn snow—today's skiing, tomorrow's meltwater. Colbeck, S.C., [1996,eng] 50-4758
- Cryogenic landslides on the Yamal Peninsula, Russia: preliminary observations. Leibman, M.O., [1996,eng] 50-6703
- Deposition of organic matter in the Norwegian-Greenland Sea during the past 2.7 million years. Wagner, T., et al. [1995,eng] 50-2016
- Detecting new-ice in the arctic from multispectral satellite data. Martin, T., et al. [1992,eng] 50-224
- Determination of the mineral composition of similar types of paleosols intercalated in loess sequences. Gerel, L., et al. [1995,eng] 50-1044
- Developmental conditions of the Farnham bog, Québec. Lavoie, M., et al. [1995,fre] 50-4885
- Diatom, chrysophyte and protozoan distributions along a latitudinal transect in Fennoscandia. Pienitz, R., et al. [1995,eng] 50-4741
- Diatoms in South Pole ice: implications for eolian contamination of Sirius Group deposits. Kellogg, D.E., et al. [1996,eng] 50-3387
- Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al. [1996,eng] 50-4766
- Distributed snowmelt modeling using a clustering algorithm. Harrington, R.F., et al. [1995,eng] 50-2409
- Distribution and biomass of Greenland shelf epibenthic megafauna. Piepenburg, D., et al. [1996,eng] 50-5045
- Distribution of sea-ice algae in Hudson Bay. Monti, D., et al. [1996,eng] 50-5211
- Distributions of volcanic aerosols in antarctic polar stratospheric clouds. Adriani, A., et al. [1995,eng] 50-2848
- Downwelling radiation fluxes at the arctic surface based on parameterizations. Silcox, R.A., [1994,eng] 50-5303
- Dual-polarization airborne lidar observations of polar stratospheric cloud evolution. Poole, L.R., et al. [1990,eng] 50-5990
- Early Weichselian interstadial land biotas at Thule, northwest Greenland. Bennike, O., et al. [1992,eng] 50-2553
- East Beringia during Late Wisconsin time: a review of the biotic evidence. Mathews, J.V., Jr., [1982,eng] 50-3374
- Ecologic-genetic analysis of tundra-steppe soils in northeastern Siberia. Cherniakhovskii, D.A., [1996,eng] 50-5447
- Ecological classification of Michigan wetland ecosystems. Zogg, G.P., et al. [1996,eng] 50-3297
- Effects of climatic change on permafrost in the arid and semi-arid regions of China. Xie, Y.Y., [1995,eng] 50-3391
- Effects of individual ridging events on the ice thickness distribution in the arctic ice pack. Hopkins, M.A., [1996,eng] 50-3828
- Electron scanning of Quaternary deposit grain shape. Molnár, B., et al. [1995,eng] 50-1040
- Enzymatic and morphological variations in arctic grasses. Aiken, S.G., et al. [1995,eng] 50-1068
- Erosion rates and sediment evacuation by glaciers. Hallet, B., et al. [1996,eng] 50-5317
- Eruption-triggered debris flow on snow-clad volcanoes. Pierson, T.C., [1995,eng] 50-1655
- Estimation of ice hydrometeor types and shapes from radar polarization measurements. Matrosov, S.Y., et al. [1995,eng] 50-3609
- Evidence of Pleistocene drainage of a Scandinavian ice lake. Bergsten, H., et al. [1992,eng] 50-2555
- Expanded record of Quaternary oceanographic change: Amerasian Arctic Ocean. Ishman, S.E., et al. [1996,eng] 50-3388
- Explicit cloud physics parameterization for operational numerical weather prediction. Schultz, P., [1995,eng] 50-1529
- Flow patterns conducive to Wyoming mountain heavy snow. Darrow, M.A., [1995,eng] 50-6685
- Fluctuations of the South Patagonian ice-field during the last glaciation and the Holocene. Marden, C.J., et al. [1995,eng] 50-6211
- Foraminiferal bottom sediment assemblages from West Antarctica. Chang, S.K., et al. [1995,eng] 50-3346
- Forecasting the impacts of strong wintertime post-cold front winds in the northern plains. Kapela, A.F., et al. [1995,eng] 50-350
- Formaminera in glaciomarine sediments of arctic fjords. Korsun, S.A., et al. [1995,eng] 50-939
- Freeze-thaw weathering: the cold region "panacea". Hall, K., [1995,eng] 50-4697
- Frost hardness of 16 European provenances of sessile oak growing in Scotland. Deans, J.D., et al. [1996,eng] 50-4329
- Frost-heave test as a compliance requirement. Sherwood, P.T., [1977,eng] 50-2317
- Fuzzy classification of earth terrain covers using complex polarimetric SAR data. Du, L., et al. [1996,eng] 50-4018
- General morphogenetic classification of the cryogenic textures of coarse detrital rocks. Shesternev, D.M., [1993,rus] 50-123
- Genetic diversity of an arctic/alpine herb species. Bauert, M.R., [1996,eng] 50-5493
- Geological structure of the Laptev Ocean shelf. Kim, V.I., et al. [1995,eng] 50-2108
- Geometry of heat and mass transfer in dry snow: a review of theory and experiment. Arons, E.M., et al. [1995,eng] 50-1401
- Global identification of snowcover using SSM/I measurements. Grody, N.C., et al. [1996,eng] 50-2704
- Grading, degradation and compaction considerations in relation to specimen preparation. Hughes, R., [1997,eng] 50-2316
- Grain multiplication mechanism for sea ice transition zone formation. Wei, Y.C., et al. [1995,eng] 50-1143
- Granulometric investigations of loess profiles in Hungary. Kis, E., [1995,eng] 50-1039
- Guide to interpretation of Swiss avalanche bulletins. Meister, R., ed. [1993,fre] 50-5075
- Hail. Knight, N.C., [1996,eng] 50-4987
- HIPLEX-1: statistical evaluation. Mielke, P.W., Jr., et al. [1984,eng] 50-4919
- Holocene environmental changes in a Tibetan lake basin. pt. 3. Fan, H., et al. [1996,eng] 50-5092
- Holocene sediments of the Russian east-arctic seas. IASHIN, D.S., et al. [1995,eng] 50-2104
- Hydrobiological research in the Lena polynya. Gukov, A.I.U., [1995,eng] 50-2089
- Hydrometeorological aspects of flood hazards in Canada. Lawford, R.G., et al. [1995,eng] 50-1853
- Ice jam flooding on the Missouri River near Williston, North Dakota. Wuebben, J.L., et al. [1995,eng] 50-2707
- Ice polymorph pressure determination in a diamond-anvil cell. Haselton, H.T., Jr., et al. [1995,eng] 50-4088
- Ice-nucleation properties of various bacterial species. Kipriano, E.A., et al. [1995,eng] 50-3673
- Iceberg detection using ERS-1 synthetic aperture radar. Willis, C.J., et al. [1996,eng] 50-5225
- Icebergs. Allison, I., [1996,eng] 50-4991
- Icing degrades aircraft performance: fluids provide best defense against ice on the ground. [1992,eng] 50-3575
- Identification of fossil plant fragments in glaciers. Lindsog, A., et al. [1995,swe] 50-1470
- Identification of ice classes and rules for ships intended to navigate in the Arctic. Karavanov, S.B., et al. [1996,eng] 50-4464
- Improved segmentation of sea ice in radiometric imagery. Simpson, J.J., et al. [1995,eng] 50-3494
- Indirect assessment of frost susceptibility. Hurt, K.G., [1977,eng] 50-2327
- Intercomparisons of sea ice concentration from SSM/I and AVHRR data of the Ross Sea. Zibordi, G., et al. [1995,eng] 50-938
- Interpretation of subglacially-deformed materials. Benn, D.I., et al. [1996,eng] 50-5583
- Isotopic chronologies of Chukchi Sea continental shelf sediment fluxes. Baskaran, M., et al. [1995,eng] 50-1805
- LANDSAT automated mapping of mountain snow cover. Rosenthal, W., et al. [1996,eng] 50-3312
- Landscape damage by skiing at the Schausland in the Black Forest, Germany. Ries, J.B., [1996,eng] 50-4234
- Late Pleistocene vegetation of eastern Beringia: pollen analysis of dated alluvium. Schweger, C.E., [1982,eng] 50-3373
- Late Pleistocene-Holocene diatom record and paleoenvironment of Bangong Lake, Western Tibet. Fan, H., et al. [1994,eng] 50-1532
- Late Quaternary foraminiferal stratigraphy from western Svalbard. Lycke, A.K., et al. [1992,eng] 50-2557
- Late-glacial palynology of the Myrtaceae of southern Chile. Zhou, M.M., et al. [1996,eng] 50-4744
- Latest Quaternary foraminifers and sediment transport in Peruvets Canyon, Bering Sea. Starratt, S.W., [1995,eng] 50-3347
- Least average residual algorithm (LARA) for tracking the motion of arctic sea ice. Peddada, S.D., et al. [1996,eng] 50-5686
- Lichens and rocks: a review. Easton, R.M., [1994,eng] 50-1252
- Lichens of alpine meadows on the Beartooth Plateau, Montana and Wyoming. U.S.A. Eversman, S., [1995,eng] 50-2815
- Lidar observation of wintertime polar stratospheric clouds. Browell, E.V., et al. [1990,eng] 50-5989
- Lipid geochemistry of the Kara Sea bottom sediments. Beliaeva, A.N., et al. [1996,eng] 50-4867
- Low cloud icing climatological data. Takasugi, S., [1970,eng] 50-4405
- Measuring the density of snow particles and snowfall rate. Muramoto, K.I., et al. [1995,eng] 50-4573
- Megabenthic communities in the waters around Svalbard. Piepenburg, D., et al. [1996,eng] 50-6722
- Mesoplankton of the west Kara Sea and the Baidara Bay. Vinogradov, M.E., et al. [1995,eng] 50-3538
- Mesoscale and microscale structure of a severe ice pellet storm. Hanesiak, J.M., et al. [1995,eng] 50-1526
- Mesoscale precipitation structure in winter storms. Ramamurthy, M.K., et al. [1991,eng] 50-4417
- Methodology of loess palynology. Zelickson, E.M., [1995,eng] 50-1049
- Micro-scale patterns of modern pollen deposition within three alpine plant communities. Pardoe, H.S., [1996,eng] 50-4253
- Microwave imaging of Labrador Sea thin sea ice. Collins, M.J., et al. [1996,eng] 50-2701
- Millimetric radar backscatter from snowcover. Williams, L.D., et al. [1987,eng] 50-6200
- Mineral composition of the fine-dispersed fractions of loess and soil processes developed in them. Chizhikova, N.P., et al. [1995,eng] 50-1042
- Minimum area and cover-abundance scales as applied to polar desert vegetation. Lévesque, E., [1996,eng] 50-5489
- Model study of polar stratospheric clouds, pt. 1. De Rudder, A., et al. [1996,eng] 50-6638
- Molecular and genetic diversity of arctic bedding plants. Abbott, R.J., et al. [1995,eng] 50-4093
- Monitoring soil condition in the northern Tibetan Plateau using SSM/I data. Chang, A.T.C., et al. [1996,eng] 50-6692
- Moraine formation from subglacial frozen sedimentation. Krüger, J., [1996,eng] 50-5830
- Morphological and physiological radiation in páramo *Draba*. Pfütz, W.A., [1994,eng] 50-3051
- Morphoscopy and morphometry of quartz grains from loess and buried soil layers. Velichko, A.A., et al. [1995,eng] 50-1038
- Moss species discovered in Arctic Canada. Hedderson, T.A., et al. [1992,eng] 50-6523

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- Multi-temporal microwave satellite observations of plains snow-packs. Wankiewicz, A., et al. [1992,eng] 50-3563
- Mycorrhizal diversity in arctic and alpine tundra: an open question. Gardes, M., et al. [1996,eng] 50-6550
- New ice jam database. White, K.D., [1996,eng] 50-4410
- Nitsoniocladius* in the Cretaceous Arctic: new species and biological insights. Spicer, R.A., et al. [1996,eng] 50-6541
- Nomenclature applied to deposits formed in glacial and ice-contact environments. Hill, H.K., et al. [1996,eng] 50-5711
- Numerical simulation of polar lows. Grønås, S., et al. [1995,eng] 50-2525
- Observed particle evolution in the polar stratospheric cloud of January 24, 1989. Dye, J.E., et al. [1990,eng] 50-5996
- On the global variation of precipitating layer clouds. Ryan, B.F., [1996,eng] 50-3293
- On the sedimentological character of alpine basal ice facies. Hubbard, B., et al. [1996,eng] 50-6259
- On the summer distribution of mesozooplankton in the Nansen Basin, Arctic Ocean. Mumm, N., [1991,ger] 50-3399
- Operational use of ERS-1 SAR images in the Canadian ice monitoring programme. Shokr, M.E., et al. [1996,eng] 50-4017
- Overview of the reproductive biology of *Espeletia* (Asteraceae) in the Venezuelan Andes. Berry, P.E., et al. [1994,eng] 50-3056
- Palaeocryogenic analysis of loess-paleosol sequences. Velichko, A.A., et al. [1995,eng] 50-1036
- Palaeoecology of two lake basins from Disko, West Greenland. Bennike, O., [1995,eng] 50-1081
- Palaeobotany and cladistics and cladistics in paleobotany: enlightenment and uncertainty. Nixon, K.C., [1996,eng] 50-4001
- Paleoclimatic significance of a new Arctic Ocean foraminiferal fauna. Mullen, M.W., et al. [1995,eng] 50-3349
- Paleoclimatological impact of Himalayan tree palynological samples. Nakagawa, T., et al. [1996,eng] 50-4745
- Paleoclimatological significance of Quaternary diatom lake deposits in Qinghai-Xizang (Tibet). Li, J.Y., et al. [1994,eng] 50-1536
- Parameterization of cloud ice crystal conversion processes. Pt. I. Harrington, J.Y., et al. [1995,eng] 50-3260
- Parent materials of Wrangel Island. Oganessian, A.Sh., et al. [1995,eng] 50-1052
- Particle fluxes in the Kara Sea and Ob and Yenisey estuaries. Lisitsyn, A.P., et al. [1995,eng] 50-3543
- Patterns and causes of arctic plant community diversity. Walker, M.D., [1995,eng] 50-3889
- Patterns and causes of genetic diversity in arctic plants. McGraw, J.B., [1995,eng] 50-3891
- Pelagic bryozoan from Antarctica. Peck, L.S., et al. [1995,eng] 50-1827
- Periphytic diatom assemblages from high arctic ponds. Douglas, M.S.V., et al. [1995,eng] 50-1460
- Permafrost on the Tibet Plateau, China. Wang, B.L., et al. [1995,eng] 50-1856
- Phenotypic plasticity in leaves of four species of arctic *Festuca* (Poaceae). Ramesar-Fortner, N.S., et al. [1995,eng] 50-3301
- Physics, mathematics and technology of ice segregation. Arakawa, K., [1981,eng] 50-2138
- Phytoplankton biomass and taxonomy around Elephant I. Vil-lafañe, V.E., et al. [1995,eng] 50-1826
- Picking out the pack ice from the air [1989,eng] 50-5645
- Plankton age variations in the Cooperation Sea. Budnichenko, E.V., [1994,eng] 50-868
- Planktonic communities of melt ponds on the McMurdo Ice Shelf, Antarctica. James, M.R., et al. [1995,eng] 50-1282
- Planktonic DNA diversity in the Canadian high Arctic. Van Raay, T.J., et al. [1995,eng] 50-4092
- Plant communities of the Bol'şoj Ciyrykuj River Valley, Barguzinskiy Range, East Siberia. Chytrý, M., et al. [1995,eng] 50-4950
- Pleistocene foraminifera in Arctic Ocean piston cores. Evans, J.R., et al. [1995,eng] 50-3348
- Pleistocene treeline fluctuation in the Swiss Alps. Tinner, W., et al. [1996,eng] 50-5487
- Polarimetric radar at attenuated wavelengths as a hydrological sensor. Sauvageot, H., [1996,eng] 50-5166
- Pollen content of Pleistocene deposits in the St. Lawrence Estuary. Clet, M., et al. [1995,fre] 50-4884
- Power law determination of ice crystal particle velocities. Mitchell, D.L., [1996,eng] 50-6558
- Precipitation hydrometeor characterization by a CW Doppler radar. Duvernoy, J., et al. [1996,eng] 50-5165
- Predicting brick frost-resistance. I. Robinson, G.C., et al. [1995,eng] 50-1109
- Probability distributions for peak stage on rivers affected by ice jams. Tuthill, A.M., et al. [1996,eng] 50-4754
- Production and chemical analysis of cometary ice tholins. McDonald, G.D., et al. [1996,eng] 50-5833
- Quaternary fluvio-morphological processes. Bibus, E., et al. [1995,eng] 50-2747
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Radar survey of French Alps snow cover. Bernier, M., et al. [1996,fre] 50-5542
- Radiometric detection of ice crystal growth in cirrus clouds. Ou, S.C., et al. [1996,eng] 50-5204
- Radiometric detection of ice crystal growth in cirrus clouds. Ou, S.C., et al. [1996,eng] 50-5204
- Rates of heave and surface rotation of periglacial frost boils in the White Mountains, California. Wilkerson, F.D., [1995,eng] 50-3785
- Reconstruction of the ice winter severity since 1701 in the western Baluc. Koslowski, G., et al. [1995,eng] 50-1957
- Relation between scattering coefficient and radiation flux over land-fast sea ice. Barber, D.G., et al. [1995,eng] 50-1816
- Relationship of tropospheric dry layers to freezing precipitation type. Smith, G., [1995,eng] 50-6684
- Relics of the xerophyte vegetation of Beringia in northeastern Asia. Uritsev, B.A., [1982,eng] 50-3376
- Remote sensing of sea ice variations in response to atmospheric circulation. Maslanik, J.A., et al. [1995,eng] 50-1815
- Report on World Glacier Inventory status—December 1978. Müller, F., et al. [1979,eng] 50-3790
- Response of alpine vegetation canopy to experimental wind barrier. Smith, B., et al. [1996,eng] 50-3786
- Retrieval of thin ice thickness from multifrequency polarimetric SAR data. Kwok, R., et al. [1995,eng] 50-349
- Revegetation of shrub tundra in disturbed soils. Harper, K.A., et al. [1996,eng] 50-5490
- Revision of structural classifications of some arctic and alpine herb species. Chmielewski, J.G., [1995,eng] 50-873
- Role of principles and methods in loess-paleosol investigations. Pécsi, M., [1995,eng] 50-1035
- Role of spaceborne millimeter-wave radar in the global monitoring of ice cloud. Brown, P.R.A., et al. [1995,eng] 50-1247
- Rotifer ecology in high-altitude alpine sites. Jersabek, C.D., [1995,eng] 50-4163
- Rotifers from the Canadian High Arctic (Devon Island, Northwest Territories). De Smet, W.H., et al. [1995,eng] 50-4162
- SAR interferometric signatures of forest. Wegmüller, U., et al. [1995,eng] 50-981
- SAR observations of arctic freeze-up compared to SSM/I during ARCTIC'91. Pettersson, M.T., et al. [1996,eng] 50-6694
- Satellite mapping and monitoring of sea ice. Smith, D.M., et al. [1994,eng] 50-5197
- Satellite measurements of cloud microphysical properties. Poix, C., et al. [1996,eng] 50-4571
- Satellite radar detection of Alaskan forest ecosystem types. Harrell, P.A., et al. [1995,eng] 50-3493
- Satellite radar observations of Beaufort Sea autumn freeze-up. Winebrenner, D.P., et al. [1996,eng] 50-6218
- Sea ice concentrations derived from satellite microwave imagery. Lomax, A.S., et al. [1995,eng] 50-1244
- Sea ice variations under doubled atmospheric carbon dioxide. Timbal, B., et al. [1995,eng] 50-2734
- Sedimentary palaeoclimatic indicators: what they are and what they tell us. Parrish, J.T., et al. [1993,eng] 50-1208
- Sensitivity of squall-line rear inflow to ice microphysics and environmental humidity. Yang, M.J., et al. [1995,eng] 50-1527
- Sensor mapping of arctic wetland distribution. Morrissey, L.A., et al. [1996,eng] 50-4764
- Simulation of rain production in convective clouds. Pt. I. Reisin, T., et al. [1996,eng] 50-4369
- Simulation of ship transit for Baltic ice conditions. La Prairie, D., et al. [1995,eng] 50-4583
- Ski slope vegetation in central Honshu, Japan. Tsuyuzaki, S., [1995,eng] 50-1861
- Small basin modeling of snow water equivalence using binary regression tree methods. Elder, K., et al. [1995,eng] 50-2406
- Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces. Zibordi, G., et al. [1996,eng] 50-5467
- Snow crystal imaging using scanning electron microscopy: I. Precipitated snow. Rangó, A., et al. [1996,eng] 50-4566
- Snow crystal imaging using scanning electron microscopy: II. Metamorphosed snow. Rangó, A., et al. [1996,eng] 50-4567
- Snow identification from radar wind profiler spectra. Ralph, F.M., et al. [1996,eng] 50-5163
- Snow parameters for vehicle mobility modeling. Horrigan, T., et al. [1995,eng] 50-2708
- Snow recognition and classification using ISOMIX. Li, L.X., et al. [1994,eng] 50-3999
- Snowfall distribution on the seaside of Hokkaido, Japan. Tachibana, Y., [1995,eng] 50-342
- Snowmobile injuries in Kiruna, northern Sweden. Sundström, I., et al. [1994,eng] 50-602
- Soil geomorphology on Alaskan permafrost terrain. Swanson, D.K., [1996,eng] 50-6518
- Soil sample compaction degradation related to grading variations. Pike, D.C., [1977,eng] 50-2321
- Solifluction and creep rates 1972-1991, Kapp Linné, West Spitsbergen. Åkerman, H.J., [1993,eng] 50-841
- Solifluction in the Swiss Alps and Bolivia. Graf, K., [1993,eng] 50-838
- Some active and passive microwave signatures of antarctic sea ice from mid-winter to spring 1991. Gohin, F., [1995,eng] 50-161
- Some characteristics of hail cloud formation processes in Xiyang area. Wang, A.S., et al. [1983,eng] 50-4098
- Some research on the development of hail cloud. Wang, A.S., et al. [1983,eng] 50-4097
- Sources of variability in a constant boundary temperature frost heave test. Lomas, K.J., [1981,eng] 50-2143
- Spaceborne radiometric determination of cloud structure. Pierdicca, N., et al. [1996,eng] 50-5683
- Spatial and temporal distribution of storm precipitation in southwestern British Columbia. Loukas, A., et al. [1996,eng] 50-2603
- Spatial energy budgets in alpine tundra. Greenland, D., [1993,eng] 50-4802
- Specifying fracture toughness ranks high in line pipe selection. Kiefner, J.F., et al. [1995,eng] 50-4397
- SSM/I mapped experimental environmental image products. Donahue, D.R., et al. [1992,eng] 50-3567
- Stability criteria in avalanche hazard forecasting. Perla, R.L., [1969,eng] 50-4260
- Statistical evaluation of glacier boreholes as indicators of basal drainage systems. Smart, C.C., [1996,eng] 50-6089
- Stratigraphy and palynology of boreal peat in French bogs. Juvigné, E., et al. [1995,fre] 50-4879
- Stratigraphy of Yorkshire, England glacial deposits. Evans, D.J.A., et al. [1995,eng] 50-6213
- Structural pattern and tectonic history of the Laptev Sea region. Drachev, S.S., et al. [1995,eng] 50-2105
- Study of the calcareous microfauna from Laptev Sea sediments. Bauch, H.A., et al. [1995,eng] 50-2102
- Svalbard—field excursion in arctic marine biology, June 5-14, 1995. Weissenberger, J., ed., et al. [1995,eng] 50-1554
- Swedish contribution to Permafrost Association permafrost lexicon. Åkerman, H.J., et al. [1993,eng] 50-4793
- Synopsis of Alaska wetland vegetation. Batten, A.R., [1987,eng] 50-3912
- Synoptic approach to forecasting lake-effect snowfall. Ellis, A.W., et al. [1996,eng] 50-6062
- Tardigrada of the arctic tundra with descriptions of two new species. Maucci, W., [1996,eng] 50-5293
- Tardigrades of the Taimyr peninsula with descriptions of two new species. Biserov, V.I., [1996,eng] 50-5294
- Taxonomic notes on recent benthic Foraminifera from Nansen Basin, Arctic Ocean. Wollenburg, J., [1992,ger] 50-3334
- Theoretical basis for passive microwave remote sensing of cirrus. Evans, K.F., et al. [1992,eng] 50-3565
- Thickness of summer Arctic Ocean multiyear ice. Eicken, H., et al. [1995,eng] 50-2112
- Trophic structure of the benthos of the Lena polynya. Gukov, A.I.U., [1995,eng] 50-2090
- U.S.G.S. Geotechnical Investigation—Beaufort Sea, Alaska-1979, Vol.1. Bruggers, D.E., et al. [1979,eng] 50-3313
- Unfrozen water types in hydrated phospholipid bilayers. Hsieh, C.H., et al. [1995,eng] 50-3038
- Universal multifractal scaling of synthetic aperture radar images of sea-ice. Falco, T., et al. [1996,eng] 50-5685
- Use of AVHRR-derived cloudiness and precipitation in weather forecasting. Karlsson, K.-G., [1992,eng] 50-228
- Use of karst deposits in the French Jura for paleoclimatological analysis. Chaline, J., et al. [1995,eng] 50-1122
- Use of remotely sensed data in the hydrological modelling of the upper Columbia watershed. Kite, G.W., [1996,eng] 50-5538
- Utility of imaging spectrometry for lithologic mapping in Greenland. Rivard, B., et al. [1992,eng] 50-1651
- Validation of avalanche forecasting systems. Bolognesi, R., [1996,fre] 50-4869
- Vascular flora of Pirttimysvuoma, a tundra-like area in northern Sweden. Sjörs, H., [1995,sw] 50-1530
- Vegetation and climate of mariume Canada 6000 years BP: a synthesis. Jetté, H., et al. [1995,eng] 50-1458
- Vegetation and ecology of tropical mires in the high Andes of northern Chile. Rutschatz, B., [1995,ger] 50-4530
- Vegetation cover of Québec-Labrador 6000 years BP: an essay. Richard, P.J.H., [1995,fre] 50-1457
- Waterflood monitoring enhancement of offshore Alaskan oil reservoir management. Starzer, M.R., et al. [1991,eng] 50-1712
- West coast Newfoundland oil spill sensitivity atlas. Dempsey, J., et al. [1995,eng] 50-1468
- West Siberian Quaternary stratigraphy. Arkhipov, S.A., et al. [1994,eng] 50-1210
- Zooplankton of the Laptev Sea coastal waters. Petriashov, V.V., et al. [1995,eng] 50-2084
- See [also]: Landscape types; Soil classification
- Clathrates**
- Alteration of volatile inventories by polar clathrate formation on Mars. Musselwhite, D., et al. [1995,eng] 50-2133
- Clathrate-like structures in supercooled water. Walrafen, G.E., et al. [1995,eng] 50-155
- Energetics of framework formation in cubic clathrate hydrates. Kosiakov, V.I., et al. [1995,eng] 50-3677
- Geometry and energy calculations of the HS-III polyhedral gas hydrate framework. Kosiakov, V.I., et al. [1995,eng] 50-3676
- Ice and hydrate freezing points of aqueous ethylene oxide solutions. Glew, D.N., et al. [1995,eng] 50-45
- Kinetics of gas hydrate formation and kinetic inhibition in offshore oil and gas operations. Englezos, P., [1995,eng] 50-171
- Monitoring clathrate hydrate formation on ice surfaces. Pietrass, T., et al. [1995,eng] 50-2127
- Oceanic methane hydrates: a "frontier" gas resource. Max, M.D., et al. [1996,eng] 50-4799
- Plausible hydrological scenario for the Belling-Allered atmospheric methane increase. Kalin, R.M., et al. [1996,eng] 50-4376
- Recent progress in Vostok ice core analysis studies on ancient air stored in ice cores. Uchida, T., [1995,jpn] 50-992
- Simulation of clathrate hydrate thermal conductivity. Inoue, R., et al. [1996,eng] 50-5505
- Spectroscopy of ice clathrate decomposition to air bubbles. Pauer, F., et al. [1996,eng] 50-3067

Clay minerals

- Thermal conductivity of normal and deuterated tetrahydrofuran clathrate hydrates. Andersson, O., et al. [1996,eng] 50-2719
 Thermodynamic stability of hydrates for ethane, ethylene, and carbon dioxide. Kvamme, B., et al. [1996,eng] 50-5019
 X-ray analysis of frozen clathrate hydrates. Bednarek, J., et al. [1996,eng] 50-4555

Clay minerals

- Clay mineral signature of the NW Atlantic Boundary Undercurrent. Fagel, N., et al. [1996,eng] 50-4822
 Clay minerals as sediment source indicators, Russian Arctic. Naidu, A.S., et al. [1995,eng] 50-1120
 Composition of clay mineral associations in bottom sediments of the Arctic Ocean. Levitan, M.A., et al. [1995,rus] 50-3768

- Determination of the mineral composition of similar types of paleosols intercalated in loess sequences. Gerei, L., et al. [1995,eng] 50-1044

- Formation of ice between hydrotalcite particles measured by thermoporometry. Titulaer, M.K., et al. [1996,eng] 50-6330

- Marine clay deposits in ice water around the South Shetlands. Zhou, F.G., et al. [1989,chi] 50-6781

- Mutual influence of ice heave and interlayer swelling in clay rocks. Final report (draft). Czurda, K.A., et al. [1986,eng] 50-1690

- Research on clay minerals in salt lakes of China. Xu, C., [1993,chi] 50-1850

- Stability of sublittoral, fine-grained sediments in a subarctic estuary. Amos, C.L., et al. [1996,eng] 50-4044

Clay soils

- Assessing frost damage in compacted clay liners. Benson, C.H., et al. [1995,eng] 50-1133

- Cement and lime for deep stabilization of soil. A chemical-physical study of stabilization effects. Ahnberg, H., et al. [1995,swe] 50-2168

- Cold regions aspects of mobile test bed hardening in Montana. Blaisdell, G.L., et al. [1987,eng] 50-2725

- Creep and strength behaviour of frozen swelling clayey soils. Zhang, J.M., et al. [1989,chi] 50-1369

- Cyclic direct simple shear testing of a Beaufort Sea clay. McCarron, W.O., et al. [1995,eng] 50-579

- Distribution, origin, and hydraulic influence of fractures in a clay-rich glacial deposit. McKay, L.D., et al. [1995,eng] 50-3254

- Effect of frozen ground strength on hardening performance of the Hard Mobile Launcher. Chamberlain, E.J., et al. [1989,eng] 50-3042

- Effects of freeze-thaw cycles on the properties of a sensitive clay. Roy, M., et al. [1995,fr] 50-581

- Field observations of frost action in intact and weathered Champlain Sea clay. Konrad, J.M., et al. [1995,eng] 50-580

- Freeze-thaw effects of fine-grained soil permeability. Eigenbrod, K.D., [1996,eng] 50-6749

- Frozen shaft for nuclear waste disposal in Germany. Jordan, P., et al. [1992,eng] 50-29

- Migration of chemical elements in frozen rocks. Chuvilin, E.M., et al. [1996,rus] 50-6820

- Mutual influence of ice heave and interlayer swelling in clay rocks. Final report (draft). Czurda, K.A., et al. [1986,eng] 50-1690

- Nonlinear creep of artificially frozen Emscher marl. Klein, J., [1978,ger] 50-3852

- Pedogenic processes and evolution of the soils on moraines in alpine periglacial environments. Liu, G.N., et al. [1995,chi] 50-5631

- Performance of landfill cover systems in cold climates. Lee, J.Y., [1994,eng] 50-371

- Pore size effects on road subgrade frost susceptibility. Wood, L.E., et al. [1982,eng] 50-2028

- Pore-water pressures in freezing and thawing fine-grained soils. Eigenbrod, K.D., et al. [1996,eng] 50-4756

- Relation between permeability and pore size distribution of compacted clayey silts. Garcia-Bengochea, I., [1978,eng] 50-2802

- Relict sorted patterned ground in Rostu, northernmost Sweden. Kling, J., [1996,eng] 50-5581

- Shear moduli and damping in frozen and unfrozen clay by resonant column tests. Al-Hunaidi, M.O., et al. [1996,eng] 50-5817

- Soil formation in floodplains in high latitudes. Gafurov, F.G., et al. [1992,rus] 50-22

- Study of the heat of crystallization of bound water in clay soils. Starostin, E.G., et al. [1996,rus] 50-6809

- Winter effects on hydraulic conductivity of compacted clay—discussion. Day, R.W., et al. [1996,eng] 50-5207

Clays

- Development of methods for assessing the frost resistance of clay bricks. Silvenoinen, K., et al. [1995,eng] 50-951

- Paleogeographic conditions for the formation of ice in homogeneous clay varved clays. Karpov, E.G., et al. [1996,rus] 50-6377

- Petroleum-producing sequences in the Phanerozoic deposits of the arctic islands. Danilushvskaya, A.I., [1996,eng] 50-5704

Climate

- 2xCO₂ experiment with prescribed changes in sea surface temperature. Mahfouf, J.-F., et al. [1992,eng] 50-226

- Acoustic response to variations of water and ice characteristics. Gavrilov, A.N., et al. [1995,eng] 50-5736

- Bioclimatic conditions in the region of Arctowski Station during the summer period. Styszyńska, A., [1989,pol] 50-2931

- Climate monitor. Vol.22.[1995,eng] 50-3351

- Information booklet on the Arctic and Antarctic Research Institute (Russia). Mustafin, N.V., [1993,eng] 50-19

- Investigation of hail-events characteristics in Serbia. Gburčik, P., et al. [1993,eng] 50-3317

- Recent climate variability in the vicinity of the Antarctic Peninsula. King, J.C., [1994,eng] 50-2994

- Role of the Bering Strait in controlling North Atlantic ocean circulation and climate. Shaffer, G., et al. [1994,eng] 50-3769

See [also]: Indoor climates

Climate control

- Moisture conditions and control in buildings in Fairbanks, Alaska. Adkins, R., [1996,eng] 50-6138

Climatic changes

- 10,000-years dynamics of limnic ecosystems and climatic change. Salonen, V.-P., et al. [1994,eng] 50-3182

- 6 ka BP reconstruction for Newfoundland from pollen records. Macpherson, J.B., [1995,eng] 50-1459

- Acclimation of tree function and structure to climate change and implications to forest carbon balance. Hari, P., et al. [1994,eng] 50-3204

- Accumulation rates of carbon in mires in Finland and implications for climate change. Tolonen, K., et al. [1995,eng] 50-6078

- Airborne Arctic Stratospheric Expedition: prologue. Turco, R.P., et al. [1990,eng] 50-5973

- Alpine "ice-man" and Holocene climatic change. Baroni, C., et al. [1996,eng] 50-6708

- Analysis of periodic variations in paleoclimatic indicators. Bolton, E.W., et al. [1995,eng] 50-1216

- Antarctic circumpolar wave in surface pressure, wind, temperature and sea-ice extent. White, W.B., et al. [1996,eng] 50-4213

- Antarctic Peninsula ice shelves retreat. Vaughan, D.G., et al. [1996,eng] 50-3354

- Anthropogenic climate change and reduction of water resources. Golubtsov, V.V., et al. [1996,eng] 50-5055

- Application of lake temperature model for predicting the effect of climatic change. Virta, J., et al. [1994,eng] 50-3200

- Applications of freshwater diatoms to geographical research. Moser, K.A., et al. [1996,eng] 50-5013

- Approaches to mathematical modeling of the steppe-tundra paleoclimate. Gal-Chen, T., [1982,eng] 50-3379

- Approaches to the establishment of future climate scenarios for the alpine region. Wanner, H., et al. [1995,eng] 50-1011

- Arctic and alpine biodiversity: patterns, causes and ecosystem consequences [1995,eng] 50-3888

- Arctic Flux Study: a regional view of trace gas release. Weller, G., et al. [1995,eng] 50-3809

- Arctic ice cap shrinking. Lange, G., [1993,eng] 50-1443

- Arctic ozone depletion observed by UARS MLS during the 1994-95 winter. Manney, G.L., et al. [1996,eng] 50-3603

- Arctic systems: natural environments, human actions, nonlinear processes. International Arctic Science Committee, [1995,eng] 50-5302

- Arctic vegetation types as response predictors to global change. Chapin, F.S., III, et al. [1996,eng] 50-6557

- Assessing sensitivities of forests to climate change. Fischlin, A., [1995,eng] 50-1018

- Assessment of hydrological changes. Hiltunen, T., [1994,eng] 50-3184

- Asymmetric diurnal temperature change in the alpine region. Weber, R.O., et al. [1994,eng] 50-4790

- Atmospheric carbon emission from North Asian lakes: a factor of global significance. Semiletov, I.P., et al. [1996,eng] 50-5609

- Atmospheric chemistry changes versus past climate inferred from polar ice cores. Legrand, M., [1995,eng] 50-1643

- Automatic weather station for detecting desertification and climatic change. Fujitani, T., et al. [1991,jpn] 50-1438

- Back to basics: world climatic types. Salmond, J., et al. [1996,eng] 50-3726

- Big freeze digs a deeper hole in ozone layer. Pearce, F., [1996,eng] 50-4204

- Biomass burning recorded in the GISP2 ice core: a record from eastern Canada? Taylor, K.C., et al. [1996,eng] 50-4370

- Biostratigraphic evidence of an Icelandic paleoclimatic oscillation. Rundgren, M., [1995,eng] 50-2017

- Boreal ecosystem development in the northwestern Alaska Range since 11,000 yr B.P. Hu, F.S., et al. [1996,eng] 50-4581

- British Columbia vegetation and climate history with focus on 6 ka BP. Hebda, R.J., [1995,eng] 50-1454

- Buoys in the Arctic study heat exchange. Honjo, S.S., et al. [1996,eng] 50-6334

- Canadian contribution to the Paleoclimate Model Intercomparison Project (PMIP). Jentz, H., [1995,eng] 50-1449

- Century of accumulation and temperature changes in Dronning Maud Land, Antarctica. Isaksson, E., et al. [1996,eng] 50-4352

- Changes in climate and ice distribution in the Northern Hemisphere since the maximum of the last glaciation. Chizhov, O.P., [1972,rus] 50-541

- Changes in North Atlantic deep-water formation associated with the Heinrich events. Maslin, M.A., [1995,eng] 50-638

- Changes in permafrost conditions. Vaikmäe, R., et al. [1995,eng] 50-506

- Chemical and physical conversion in cold atmosphere and the effect of radiation. Kulmala, M., et al. [1994,eng] 50-3187

- Circulation mechanisms in the atmosphere of the Northern Hemisphere in the 20th century. Dzerdzeevskii, B.L., [1968,rus] 50-3400

- Climate change and forest management alternatives. Valsta, L., et al. [1994,eng] 50-3233

- Climate change and GCM simulation of water resources from mountain snowpack. McGinnis, D.L., [1994,eng] 50-6690

- Climate change and snow-cover duration in the Australian Alps. Whetton, P.H., et al. [1996,eng] 50-4751

- Climate change and the alpine flora: some perspectives. Theurillat, J.P., [1995,eng] 50-1015

- Climate change and the ecophysiological response of Arctic lichens. Nash, T.H., III, et al. [1995,eng] 50-3784

- Climate change and water resources in Vuoksi watershed. Vehviläinen, B., et al. [1994,eng] 50-3195

- Climate change during the last deglaciation in Antarctica. Mayewski, P.A., et al. [1996,eng] 50-5067

- Climate change impact on hydrology and cryology. Sæthun, N.R., [1995,eng] 50-1005

- Climate change impacts on glaciers and permafrost. Haeblerli, W., [1995,eng] 50-1012

- Climate change impacts on snow cover: modelling case studies in Switzerland and the French Western Alps. Baumgartner, M.F., et al. [1995,eng] 50-1013

- Climate change in mountain environments. Willis, I., et al. [1995,eng] 50-1522

- Climate change in the recent evolution of a pro-glacial lake. Webster, J., et al. [1996,eng] 50-3704

- Climate change, plant reproductive ecology, and population dynamics. Molau, U., [1995,eng] 50-1009

- Climate models and scenarios. Fortelius, C., et al. [1994,eng] 50-3185

- Climate of Inner Mongolia. Wang, W.H., ed. [1990,chi] 50-2172

- Climate of western Siberia: past and future. Bukreeva, G.F., et al. [1995,eng] 50-6583

- Climate of Xinjiang. Li, J.F., ed. [1991,chi] 50-2174

- Climate simulations with a global atmosphere-ocean model, pt.1. Lunkeit, F., et al. [1996,eng] 50-4090

- Climatic change and the retreat of glaciers. Bonacina, L.C.W., et al. [1947,eng] 50-5788

- Climatic changes in Europe during the last glacial/interglacial transition. Walker, M.J.C., [1995,eng] 50-502

- Climatic changes in Northern Europe. Heino, R., et al. [1994,eng] 50-3183

- Climatic controls on rates of solifluction: variations within Europe. Matthews, J.A., et al. [1993,eng] 50-849

- Climatic effects on terminus variations of a Norwegian glacier. Nesje, A., et al. [1995,eng] 50-1836

- Climatic implications of Norwegian Neoglacial glacier maximum. Matthews, J.A., [1991,eng] 50-3306

- Climatic implications of ostracode deposits in Greenland Quaternary sediments. Brouwers, E.M., et al. [1991,eng] 50-2564

- Climatic significance of bristlecone pine frost-ring records. Brunstein, F.C., [1996,eng] 50-4338

- Climatic variation of Xinjiang in recent 3000 years. Li, J.F., [1985,chi] 50-1996

- Climatological significance of moraine ridges in Iceland. Krüger, J., [1995,eng] 50-2858

- Comparing simulated glacial climate and paleodata: a reexamination. Broccoli, A.J., et al. [1996,eng] 50-4398

- Computer network database for paleoclimatological studies. Roof, S.R., et al. [1996,eng] 50-5712

- Controls on CH₄ flux from an Alaskan boreal wetland. Moosavi, S.C., et al. [1996,eng] 50-6053

- Damming James Bay: I. Potential impacts on coastal climate and the water balance. Rouse, W.R., et al. [1992,eng] 50-5030

- Danish lacustrine sediment evidence of paleoclimatological variability. Hammarlund, D., et al. [1996,eng] 50-5826

- Dating of Holocene solifluction in the Austrian Alps. Veit, H., [1993,eng] 50-826

- Decadal evolution of the antarctic ozone hole. Jiang, Y., et al. [1996,eng] 50-5253

- Decadal oscillations driven by the annual cycle in a zonally-averaged coupled ocean-ice model. Yang, J.Y., et al. [1996,eng] 50-3069

- Deep ice stirs debate on climate stability. Monastersky, R., [1993,eng] 50-4800

- Degradation of the cryolithosphere in Russia under global climatic warming. Ershov, E.D., et al. [1996,rus] 50-6840

- Degree-day glacier mass balance modelling. Jóhannesson, T., et al. [1995,eng] 50-455

- Dendrochronology of climatic change in mountain environment. Tessier, L., et al. [1995,eng] 50-1019

- Desertification and climatic change from historical data. Yoshino, M., et al. [1991,jpn] 50-1437

- Desertification and its control in China. Zhu, Z.D., et al. [1989,chi] 50-1851

- Detection of climate change in the Arctic: an updated report. Ye, H.C., et al. [1994,eng] 50-3026

- Differences in the duration of snow cover on Scottish ski-slopes between mild and cold winters. Harrison, S.J., [1993,eng] 50-3014

- Dynamic response of high arctic glaciers to global warming and their contribution to sea-level rise. Lam, J.K.W., et al. [1995,eng] 50-6618

- Earth rotation, ocean circulation and paleoclimate. Morner, N.A., [1995,eng] 50-6063

- Eastern Canadian Arctic at ca. 6 ka BP: a time of transition. Williams, K.M., et al. [1995,eng] 50-1450

- Ecophysiological sensitivity of terrestrial vascular plants to climate change. Jonasson, S., [1995,eng] 50-1007

Climatic changes

Climatic changes

- Eemian interglacial and its termination. Dansgaard, W., et al. [1981, eng] 50-3622
- Effect of climate change on erosion and nutrient transport from arable land. Kallio, K., et al. [1994, eng] 50-3196
- Effect of climate change on hydrologic regime of two climatically different watersheds. Loukas, A., et al. [1996, eng] 50-6100
- Effect of climate warming on the Qinghai-Tibet Highway, China. Tong, C.J., et al. [1996, eng] 50-3830
- Effect of climatic change on photosynthesis, respiration and transpiration of Scots pine. Laitinen, K., [1994, eng] 50-3210
- Effect of snow cover anomaly on global climate. Krenke, A.N., et al. [1995, rus] 50-3969
- Effects of climate change on alpine plant diversity and distribution. Guisan, A., et al. [1995, eng] 50-1016
- Effects of climate change on plant diversity and distribution. Holten, J.I., [1995, eng] 50-1006
- Effects of climate change on water supplies in mountainous snowmelt regions. Rango, A., [1995, eng] 50-6617
- Effects of climatic change on onset of growth and risk of frost damage in Scots pine. Hänninen, H., [1994, eng] 50-3208
- Effects of climatic change on permafrost in the arid and semi-arid regions of China. Xie, Y.Y., [1995, eng] 50-3391
- Effects of elevated N-input and CO₂ on *Sphagnum* with different trophic level. Jauhainen, J., et al. [1994, eng] 50-3214
- Encyclopedia of climate and weather. [1996, eng] 50-4973
- Energy partitioning at treeline forest and tundra sites and its sensitivity to climate change. Lafleur, P.M., et al. [1995, eng] 50-600
- Eocene continental climates and latitudinal temperature gradients. Greenwood, D.R., et al. [1995, eng] 50-1808
- Estimating soil water content during global climatic warming. Velichko, A.A., et al. [1995, rus] 50-4115
- Estimation of climate change effect on the runoff: catchment-scale application of SOIL-model. Roos, J., et al. [1994, eng] 50-3194
- European paleoclimatic changes based on coleopteran analysis. Coope, G.R., et al. [1995, eng] 50-6565
- European paleoclimatic variations inferred from Greenland ice core isotope analysis. Hafidason, H., et al. [1995, eng] 50-2528
- Evaluation of controls on iceberg-calving glaciers. Wiles, G.C., et al. [1995, eng] 50-3324
- Finnish research programme on climate change; second progress report. Kanninen, M., ed, et al. [1994, eng] 50-3179
- Fluctuations of local glaciers at the termination of the Pleistocene: 18-8 ka BP. Clapperton, C.M., [1995, eng] 50-500
- Foraminiferal evidence for Greenland environmental change. Jennings, A.E., et al. [1995, eng] 50-6079
- Forest changes in the Great Lakes region at 5-7 ka BP. Anderson, T.W., [1995, eng] 50-1456
- Formation of nitric acid hydrates—a chemical equilibrium approach. Smith, R.H., [1990, eng] 50-4728
- Formation of the cryo-ecological segment in Central Yakutia. Fedorov, A.N., [1996, rus] 50-6843
- Framework for modeling the effects of climate change on material fluxes in forested catchments. Holmberg, M., et al. [1994, eng] 50-3197
- Freshwater impact on Hudson bay ecosystems under sea ice, pt.3. Fortier, L., et al. [1996, eng] 50-4021
- Gelfification rates as global change indicators. Kirkby, M.J., [1995, eng] 50-4195
- General circulation (GCM) modelling of palaeoclimates: a critique. Street-Perrott, F.A., [1991, eng] 50-3303
- Geochemical process responses to potential Scandinavian climatic change. Dixon, J.C., et al. [1995, eng] 50-4194
- Glacial evidence of climatic cooling during the Younger Dryas. Osborn, G.D., et al. [1995, eng] 50-4625
- Glacial fluctuations in New Zealand determined from snowline. Chinn, T.J.H., [1995, eng] 50-79
- Glaciation onset related to Canadian tundra. Gallimore, R.G., et al. [1996, eng] 50-5212
- Glaciers and climate of the mountains of the former USSR during the Neoglaciation. Serebrianniy, L.R., et al. [1996, eng] 50-6552
- Glaciers and global warming. Koerner, R.M., et al. [1995, eng] 50-5040
- Glaciers and lakes in the Tianshan Mountains as indicators of climatic change. Hu, R.J., et al. [1994, eng] 50-3998
- Global climatic weathering on glacial time scales. Kump, L.R., et al. [1994, eng] 50-1239
- Global climate change adaptation: examples from Russian boreal forests. Dixon, R.K., et al. [1996, eng] 50-5056
- Global environmental change: the northern North Atlantic. Schäfer, P., et al. [1995, eng] 50-745
- Global warming. Chandler, M.A., [1996, eng] 50-4984
- Global Younger Dryas? Petzet, D., [1995, eng] 50-504
- Great Lakes ice cover studies. U.S. National Oceanic and Atmospheric Administration. Great Lakes Environmental Research Laboratory (GLERL). Ann Arbor, MI. [1995, eng] 50-2479
- Greenhouse effect and the global environmental changes. Obrybska-Starkel, B., et al. [1991, pol] 50-5003
- Greenhouse effect. Kellogg, W.W., [1996, eng] 50-4985
- Greenland ice core record of Holocene climate. O'Brien, S.R., et al. [1995, eng] 50-1797
- Greenland ice sheet climate record of the past 16,500 years. Stuiver, M., et al. [1995, eng] 50-2015
- Greenland paleotemperatures derived from ice core isotope profiles. Johnsen, S.J., et al. [1995, eng] 50-2027
- Greenland's ice holds key to climate puzzle. Kiernan, V., [1996, eng] 50-6546
- Growth response of mosses to simulated subarctic environmental change. Potter, J.A., et al. [1995, eng] 50-3860
- Gulf of Alaska paleoclimatological influence on marine ecology. Lagoe, M.B., et al. [1996, eng] 50-6625
- Heinrich events and western US glaciation. Clark, P.U., et al. [1995, eng] 50-558
- Hemispheric climate relations revealed by bottom sediment/ice core correlations. Charles, C.D., et al. [1996, eng] 50-6632
- High-latitude climate change with an atmospheric coupled sea ice model. Washington, W.M., et al. [1996, eng] 50-6055
- Historical records of fatty acids in an ice core from Site-J, Greenland. Kawamura, K., et al. [1995, eng] 50-3247
- Holocene climate fluctuations and geomorphic impact of extreme events in Svalbard. André, M.F., [1995, eng] 50-4192
- Holocene climatic, vegetation and pollen data of Siberia adjacent to the Laptev Sea. Naidina, O.D., [1995, eng] 50-2091
- Holocene debris-flow activity in northern Sweden. Jonasson, C., [1993, eng] 50-837
- Holocene environmental changes in a Tibetan lake basin, pt.1. Fontes, J.C., et al. [1996, eng] 50-5090
- Holocene environmental changes in a Tibetan lake basin, pt.2. Van Campo, E., et al. [1996, eng] 50-5091
- Holocene environmental changes in a Tibetan lake basin, pt.3. Fan, H., et al. [1996, eng] 50-5092
- Holocene environmental changes in a Tibetan lake basin, pt.4. Gasse, F., et al. [1996, eng] 50-5093
- Holocene glacier variations in central Asia. Savoskul, O.S., et al. [1996, eng] 50-4372
- Holocene mass movement on Scottish mountains. Ballantyne, C.K., [1993, eng] 50-831
- Holocene solifluction at Okstindan, northern Norway: a reassessment. Worsley, P., [1993, eng] 50-829
- Holocene solifluction in the Swiss Alps: dating and climatic implications. Gamper, M., [1993, eng] 50-824
- Holocene subalpine lake fluctuations in France. Magny, M., [1992, eng] 50-2560
- Hudson Bay-Hudson Strait jökulhlaups and Heinrich events: a hypothesis. Johnson, R.G., et al. [1995, eng] 50-354
- Hydrological effects of hypothetical climate change in the East River basin, Colorado, USA. McCabe, G.J., Jr., et al. [1995, eng] 50-740
- Hydrometeorological aspects of flood hazards in Canada. Lawford, R.G., et al. [1995, eng] 50-1853
- Ice ages and the Milankovitch theory: a study of interactive climate feedback mechanisms. Cess, R.D., et al. [1979, eng] 50-2976
- Ice ages. Kneller, M., [1996, eng] 50-4989
- Ice bubbles confirm big chill. Kerr, R.A., [1996, eng] 50-5065
- Ice sheets, climate change and sea level. Drewry, D., [1996, eng] 50-3411
- Ice shelf breakup. Fahnestock, M., [1996, eng] 50-3490
- Ice-volume forcing of East Asian winter monsoon variations in the past 800,000 years. Ding, Z.L., et al. [1995, eng] 50-965
- Icebreakers transit Arctic for global climate studies. [1996, eng] 50-6677
- Ice indicators of global warming. Denniston, D., [1993, eng] 50-3344
- Impact of atmospheric changes on alpine vegetation: the eco-physiological perspective. Körner, Ch., [1995, eng] 50-1014
- Impact of climate change on carbon cycle in freshwater ecosystems. Kankala, P., et al. [1994, eng] 50-3201
- Impacts of climate change on mountain ecosystems: future research and monitoring needs. Guisan, A., et al. [1995, eng] 50-1020
- Impacts of climate variability and change on Canadian wetlands. Woo, M.K., [1992, eng] 50-4805
- Implications for changes in arctic plant biodiversity from environmental manipulation experiments. Callaghan, T.V., et al. [1995, eng] 50-3897
- Increasing greenhouse gases indicate climate changes. Tokioka, T., [1995, eng] 50-141
- Initial assessment of multi-scale measures of CO₂ and H₂O flux in the Siberian taiga. Hollinger, D.Y., et al. [1995, eng] 50-3810
- Interaction of arctic fogs with aerosols. Nilsson, E.D., et al. [1996, eng] 50-4318
- Interdecadal climate variability in the subpolar North Atlantic. Wohleben, T.M.H., et al. [1995, eng] 50-2743
- International Conference on Global Change and Arctic Terrestrial Ecosystems—recommendations. Arctic Global Change Conference, Oppdal, Norway, Aug. 21-26, 1993. [1993, eng] 50-3331
- International Conference on the Role of Polar Regions in Global Change. Weller, G.E., [1991, eng] 50-5438
- Investigation of hail-events characteristics in Serbia. Gburčik, P., et al. [1993, eng] 50-3317
- Isotope analysis of Greenland ice sheet stratigraphic disturbances. Fuchs, A., et al. [1996, eng] 50-5461
- Isotope tracking of Pleistocene ice-rafted debris. Gwiazda, R.H., et al. [1996, eng] 50-4399
- Isotopic calibration of Canadian arctic climatic change records. Beltrami, H., et al. [1995, eng] 50-3682
- Isotopic climatic records in the Allerød-Bølling-Younger Dryas and post-Younger Dryas events. Epstein, S., [1995, eng] 50-2804
- Labrador Sea atmospheric circulation/sea-ice anomalies. Newell, J.P., [1996, eng] 50-6227
- Late Holocene glacier fluctuations in western Norway. Nesje, A., et al. [1991, eng] 50-3302
- Late Holocene record of aeolian and fire activity in northern Québec, Canada. Filion, L., et al. [1991, eng] 50-3304
- Late Quaternary lake-level record from northern Eurasia. Harrison, S.P., et al. [1996, eng] 50-4578
- Late Younger Dryas to Holocene palaeoenvironments of the southern Kattegat, Scandinavia. Conradson, K., [1995, eng] 50-2861
- Late-glacial and early Holocene vegetation of Snowdonia. Ince, J., [1996, eng] 50-4254
- Late-Holocene glaciation and twentieth-century retreat, north-eastern Brooks Range, Alaska. Evison, L.H., et al. [1996, eng] 50-4371
- Lateglacial and Holocene variations of the Grey Glacier, an outlet of the South Patagonian icefield. Marden, C.J., [1993, eng] 50-3013
- Little Ice Age evidence from a south-central North American ice core. U.S.A. Naftz, D.L., et al. [1996, eng] 50-4334
- Little Ice Age temperature estimated by arctic heather growth variations. Havström, M., et al. [1995, eng] 50-1121
- Long range forecasting of avalanche regimes and some ecological changes on Zailiyskiy Alatau. Kondrashov, I.V., et al. [1991, rus] 50-9
- Long-term observations for monitoring of the cryosphere. Walsh, J.E., [1995, eng] 50-3350
- Marine record of deglaciation from the continental margin off Nova Scotia. Keigwin, L.D., et al. [1995, eng] 50-3001
- Mass balance variations as surge controls of Norwegian glaciers. Dowdeswell, J.A., et al. [1995, eng] 50-4537
- Mean annual air temperature trends since 1904 in the South Shetland Islands. Han, J.K., et al. [1995, chi] 50-5639
- Mechanisms of direct and indirect climate forcing by aerosols in the arctic region. Blanchet, J.P., [1995, eng] 50-1642
- Method of determining the surface boundary conditions for geocryological forecasting. Ershov, E.D., et al. [1996, rus] 50-6838
- Microclimatic models, estimation of solar radiation and evaporation over land surfaces. Heikinheimo, M., et al. [1994, eng] 50-3186
- Mode of degradation of Pleistocene permafrost in West Siberia. Astakhov, V.I., [1995, eng] 50-507
- Model of effects of global warming of water balance of subarctic forest ecosystems. Kellomäki, S., et al. [1996, eng] 50-4750
- Model of Greenland and antarctic ice sheet thickness variations. Verbitskii, M.I.A., et al. [1995, eng] 50-642
- Model of Northern Hemisphere glaciation. Dong, B.W., et al. [1995, eng] 50-1328
- Modeling climatic sensitivity of European marginal seas. Backhaus, J.O., [1996, eng] 50-4022
- Modeling the effects of climate change on lakes. Frisk, T., et al. [1994, eng] 50-3198
- Modeling the effects of climate change, air pollutants and land use on freshwater ecosystems: summary. Kauppi, L., et al. [1994, eng] 50-3192
- Modeling the effects of climatic change on phosphorus transport from a drainage basin. Billaletdin, A., et al. [1994, eng] 50-3199
- Modeling the surface heat flux response to long-lived SST anomalies in the North Atlantic. Power, S.B., et al. [1995, eng] 50-639
- Moraine dating supports Younger Dryas cooling event. Gosse, J.C., et al. [1995, eng] 50-1255
- Mountain hemlock expansion in a subalpine ecosystem. Taylor, A.H., [1995, eng] 50-3321
- Neoglaciation and vegetation change in British Columbia. Clague, J.J., et al. [1996, eng] 50-4332
- New Zealand talus-derived rock glacier climatic responses. Kirkbride, M., et al. [1995, eng] 50-6561
- No evidence for extreme, long term warming in early Pliocene sediments of the Southern Ocean. Burckle, L.H., et al. [1996, eng] 50-6627
- North Atlantic paleoclimatic effects on primary productivity. Versteegh, G.J.M., et al. [1996, eng] 50-6620
- North Pacific rapid climate variability. Kotilainen, A.T., et al. [1995, eng] 50-338
- Northern exposures. Thomson, K.S., [1993, eng] 50-3146
- Northern forest plants under the pressure of environmental changes. Laine, K., et al. [1994, eng] 50-3231
- Norwegian Sea Pleistocene ice-core indicators of climatic change. Sejrup, H.P., et al. [1995, eng] 50-6564
- Numerical modelling of North Atlantic Quaternary sedimentation. Haupt, B.J., et al. [1995, eng] 50-750
- On the connexion of vegetation dynamics with climatic changes in High Asia. Miehe, G., [1996, eng] 50-5089
- On the environmental and climatic changes in the Lop Nur area. Xia, X.C., et al. [1985, chi] 50-1997
- Organic carbon paleo-pCO₂ and marine-ice core correlations and chronology. Raymo, M.E., et al. [1996, eng] 50-3601
- Ozone hole. Hall, T.M., [1996, eng] 50-4995
- Paleoclimate of the North Atlantic seaboard during the last glacial/interglacial transition. Lowe, J.J., et al. [1995, eng] 50-501
- Paleoceanographic surface water variations derived from ice-rafted sediments. Maslin, M.A., et al. [1995, eng] 50-565
- Paleoclimate data constraints on climate sensitivity: the paleo-calibration method. Covey, C., et al. [1996, eng] 50-4150
- Paleoclimates. Martinson, D.G., [1996, eng] 50-4996
- Paleoclimatic atmospheric chemical changes inferred from fossil leaf density. Beerling, D.J., et al. [1995, eng] 50-6563

Climatic extremes

- Paleoclimatic change from Lake Baikal sediments. Edgington, D.N., et al. [1996,eng] 50-6633
- Paleoclimatic changes on the northern side of the central Himalaya. Fort, M., [1996,eng] 50-5096
- Paleoclimatic CO₂ record related to changes in oceanic thermohaline circulation. Figge, R.A., et al. [1995,eng] 50-1149
- Paleoclimatic implications of Swedish lake-level fluctuations. Almquist-Jacobson, H., [1995,eng] 50-2716
- Paleoclimatic import of gravel deposits on a Chinese plateau. Liu, T.S., et al. [1996,eng] 50-5098
- Paleoclimatic interpretation of topographic variations in Tibetan lake shorelines. Avouac, J.P., et al. [1996,eng] 50-5094
- Paleoclimatic models of Chinese loess and paleosol sequences. Thompson, R., et al. [1995,eng] 50-2542
- Paleoclimatological significance of Quaternary diatom lake deposits in Qinghai-Xizang (Tibet). Li, J.Y., et al. [1994,eng] 50-1536
- Paleoclimatological variations from isotope analysis of marine deposits. Rial, J.A., [1995,eng] 50-1286
- Paleoecological record of 6 ka BP climate in the Canadian prairie provinces. Vance, R.E., et al. [1995,eng] 50-1455
- Paleoecology of arctic lake sediment macrofossils. Birks, H.H., [1991,eng] 50-3305
- Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st, Burg Wartenstein, Austria, June 8-17, 1979, [1982,eng] 50-3369
- Paleogeographic implications of ostracod fauna in Karakorum Mountain lacustrine deposits. Li, Y.F., et al. [1994,eng] 50-1537
- Paleohydrological changes in French mountains due to paleoclimatic changes. Magny, M., [1995,eng] 50-5038
- Paleomagnetism of a glaciogenic sequence, South Australia. Schmidt, P.W., et al. [1995,eng] 50-411
- Paleovegetation and paleoclimatic changes in the Yukon at 6 ka BP. Cwynar, L.C., et al. [1995,eng] 50-1451
- Palynology and sediment slumping in a high arctic Greenland lake. Fredskild, B., [1995,eng] 50-3368
- Patterns and causes of genetic diversity in arctic plants. McGraw, J.B., [1995,eng] 50-3891
- Patterns, cause, changes and consequences on biodiversity in arctic and alpine ecosystems. Chapin, F.S., III, et al. [1995,eng] 50-3907
- Permafrost and global warming: strategies of adaptation. Anisimov, O.A., et al. [1996,eng] 50-5057
- Permafrost change in a peatland in northern Quebec, 1983-1993. Laberge, M.J., et al. [1995,eng] 50-77
- Permafrost distribution and climate change. Nelson, F.E., [1990,eng] 50-1665
- Permafrost distribution in the northern hemisphere under scenarios of climatic change. Anisimov, O.A., et al. [1996,eng] 50-6619
- Peroxide concentrations in the Dome Summit South ice core. Law Dome, Antarctica. van Ommen, T.D., et al. [1996,eng] 50-6327
- Physiological and genetical adaptation of forest trees to climatic changes. Beuker, E., et al. [1994,eng] 50-3205
- Physiological responses of *Pinus sylvestris* on changing carbon dioxide and ozone concentration. Holopainen, T., et al. [1994,eng] 50-3232
- Plankton blooms as evidence of Holocene climatic fluctuations. Thorsen, T.A., et al. [1995,eng] 50-2860
- Plant communities and desertification in Xinjiang Province. Tanimoto, T., et al. [1991,jpn] 50-1439
- Plant-vertebrate herbivore interface in arctic ecosystems. Jefferies, R.L., et al. [1995,eng] 50-3905
- Pleistocene climatic changes in arctic marine atmospheres. Seidenkrantz, M.S., et al. [1996,eng] 50-5584
- Pleistocene lacustrine record of a Chinese lake. Rhodes, T.E., et al. [1996,eng] 50-5095
- Pleistocene termination in northern Eurasia. Velichko, A.A., [1995,eng] 50-505
- Plio-Pleistocene megacycles: record of climate and tectonics. Kukla, G., et al. [1996,eng] 50-5099
- Pliocene climates: the nature of the problem. Crowley, T.J., [1996,eng] 50-6624
- Pliocene paleoclimate of Dry Valleys of Southern Victoria Land. Marchant, D.R., et al. [1996,eng] 50-6629
- Polar news/Notizie polari, Vol.11, No.3. Centro Ricerca e Documentazione Polare, Rome, [1996,ita] 50-4768
- Polar sea ice off West Greenland—a review. Fabricius, J.S., et al. [1995,eng] 50-2972
- Pollen assemblages from small Canadian arctic lakes. Gajewski, K., [1995,eng] 50-966
- Possible responses of mountain vegetation to a global climatic change. Ozenda, P., et al. [1995,eng] 50-1017
- Potential climatic change effects on western Canadian forests. Burton, P.J., et al. [1995,eng] 50-769
- Potential ecological impacts of climate change in the Alps and Pennoscandian mountains. Guisan, A., ed. et al. [1995,eng] 50-1002
- Potential role of peatland dynamics in ice-age initiation. Klinger, L.F., et al. [1996,eng] 50-4587
- Proceedings [1994,eng] 50-1531
- Progress report on studies to explain the mechanisms of desertification [1989,jpn] 50-2034
- Qinghai Lake paleohydrological variations due to climatic changes. Nakao, K., et al. [1995,eng] 50-6718
- Qinghai-Xizang Plateau as a source region for climatic changes. Tang, M.C., et al. [1992,chi] 50-1479
- Quaternary glaciation in the Karakoram and Himalayas. Derbyshire, E., [1996,eng] 50-5097

- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Radiative forcing of climate. Ramaswamy, V., et al. [1991,eng] 50-2786
- Radiocarbon balances of two Tibetan Lakes from 13,000 BP. Fontes, J.C., et al. [1993,eng] 50-5027
- Rapid climatic shifts during isotope stages 2-4 in the polar North Atlantic. Dokken, T.M., et al. [1996,eng] 50-6105
- Rapid oscillations in Vostok and GRIP ice cores. You, P., et al. [1995,eng] 50-772
- Recent advance of the arctic treeline along the eastern coast of Hudson Bay. Lescop-Sinclair, K., et al. [1995,eng] 50-3041
- Recent climate changes in southern Patagonia. Ibarzabal y Donangelo, T., et al. [1996,eng] 50-5513
- Recent climatic trend and thermal response of permafrost in Sal-luit, northern Quebec, Canada. Wang, B.L., et al. [1996,eng] 50-6699
- Recent cooling along Hudson Strait, from permafrost temperature measurements. Allard, M., et al. [1995,eng] 50-76
- Recent glacier fluctuations in inland Asia. Ageta, Y., [1995,jpn] 50-998
- Recent glacier fluctuations in the Himalaya and Karakorum. Yamada, T., et al. [1995,jpn] 50-1174
- Recent responses of Chilean glaciers to climatic changes. Holm-lund, P., et al. [1995,eng] 50-1868
- Recent white spruce dynamics at the subarctic alpine treeline of north-western Canada. Szeicz, J.M., et al. [1995,eng] 50-3036
- Reconstruction of 1000-year winter precipitation from tree rings in New Mexico. D'Arrigo, R.D., et al. [1991,eng] 50-5032
- Reconstruction of the ice winter severity since 1701 in the western Baltic. Koslowski, G., et al. [1995,eng] 50-1957
- Relations between atmospheric circulation and glacier mass balance. McCabe, G.J., Jr., et al. [1995,eng] 50-3323
- Research on Antarctic Shallow Coastal and Littoral Systems (RASCALS). Klosser, H., et al. [1995,eng] 50-2570
- Response of boreal forest ecosystems to climatic change and its silvicultural implications: modelling. Kellomäki, S., et al. [1994,eng] 50-3209
- Response of leaching from mire ecosystems to changing climate. Sallantausta, T., [1994,eng] 50-3222
- Response of snowmelt hydrology to climate change. Brubaker, K.L., et al. [1996,eng] 50-6614
- Response of soil carbon to climate change. McGuire, A.D., et al. [1995,eng] 50-4866
- Response of the boreal forest ecosystem to climatic change and its silvicultural implications. Kellomäki, S., ed. [1994,eng] 50-3207
- Responses of arctic polar desert plant litter chemistry to climatic changes. Robinson, C.H., et al. [1995,eng] 50-5100
- Review of multi-proxy data for the Younger Dryas in Atlantic Canada. Mayle, F.E., et al. [1995,eng] 50-4624
- Review of recent glacier variations in the Arctic. Kameda, T., [1995,jpn] 50-999
- Role of climate in periglacial solifluction. Harris, C., [1993,eng] 50-845
- Role of ice in the global water cycle. Lawford, R.G., [1993,eng] 50-5079
- Satellite observation of lake ice as a climate indicator. Wynne, R.H., et al. [1993,eng] 50-2862
- Satellites for monitoring climate change. Kelkar, R.R., [1994,eng] 50-4826
- SCAR report No.11, Feb. 1996. Scientific Committee on Antarctic Research. [1996,eng] 50-5803
- Scenarios of changes in the cryolithosphere in Russia under global climatic warming. Velichko, A.A., et al. [1996,rus] 50-6839
- Sea ice variations under doubled atmospheric carbon dioxide. Timbal, B., et al. [1995,eng] 50-2734
- Sedimentary palaeoclimatic indicators: what they are and what they tell us. Parrish, J.T., et al. [1993,eng] 50-1208
- Sensitivity of alpine plants to potential climate changes. Skre, O., [1995,eng] 50-1008
- Siberian future climate predictions. Volkova, V.S., et al. [1995,eng] 50-6584
- Simulation of abrupt climate changes. Manabe, S., et al. [1995,eng] 50-1520
- Simulation of Scots pine regeneration under changing Finnish climate. Kellomäki, S., et al. [1995,eng] 50-1089
- Slope processes and climate in the Abisko Mountains, northern Sweden. Rapp, A., et al. [1993,eng] 50-836
- Small ice cap instability in the presence of fluctuations. Lee, W.H., et al. [1995,eng] 50-641
- Snow cover in the Great Plains as an indicator of climate change. Hughes, M.G., [1994,eng] 50-679
- Soil isotopic evidence of Quaternary atmospheric circulation variations in North America. Amundson, R., et al. [1996,eng] 50-2722
- Soil polygenesis as a function of Quaternary climate change, northern Great Basin, USA. Chadwick, O.A., et al. [1995,eng] 50-1831
- Solifluction and climate in the Holocene: a North American perspective. Smith, D.J., [1993,eng] 50-834
- Solifluction and climatic variation in the Holocene. Frenzel, B., ed. et al. [1993,eng] 50-823
- Solifluction and climatic variation in the Holocene: discussion and synthesis. Matthews, J.A., et al. [1993,eng] 50-848
- Solifluction and related slope processes in the mountains of central Asia (Mongolia). Pekala, K., et al. [1993,eng] 50-832
- Solifluction in the Arctic and subarctic during the Holocene. Van Vliet-Lanoë, B., [1993,eng] 50-844

Climatic factors

- Solifluction in the Swiss Alps and Bolivia. Graf, K., [1993,eng] 50-838
- Source gases: concentrations, emissions, and trends. Fraser, P., et al. [1991,eng] 50-2782
- Southern ocean Pleistocene water mass circulation variations. Diester-Haass, L., et al. [1996,eng] 50-3389
- Spring snowpack anomaly patterns and winter climatic variability, British Columbia, Canada. Moore, R.D., et al. [1996,eng] 50-3492
- Stratigraphic detection of Greenland ice sheet chemical changes. Wolff, E.W., et al. [1995,eng] 50-584
- Sulfate aerosols and climate change. Kerminen, V.-M., et al. [1994,eng] 50-3188
- Summary of Project IGCP-253. Lundqvist, J., et al. [1995,eng] 50-497
- Summer temperatures from an ice core at Law Dome. Han, J.K., [1989,chi] 50-6771
- Surface spectrometry of arctic seasonal atmospheric ozone variations. Pommereau, J.P., et al. [1988,eng] 50-4636
- Surficial weathering fluxes and their geochemical controls. Lerman, A., [1994,eng] 50-1238
- Swiss alpine paleoclimate during the Holocene: pollen analytical evidence and general features. Burga, C.A., [1993,eng] 50-825
- Taku Glacier, southeast Alaska, U.S.A.: Late Holocene history of a tidewater glacier. Motyka, R.J., et al. [1996,eng] 50-4335
- Temporal characteristics of Pennsylvania snowfall, 1950-1951 through 1989-1990. Acker, J.C., et al. [1995,eng] 50-970
- Terrestrial component of the cryosphere. Melnikov, P.A., et al. [1993,eng] 50-5483
- Terrestrial molluscs as indicators of global aeolian dust fluxes during glacial states. Rousseau, D.D., [1992,eng] 50-2552
- Test for time series homogeneity of hail-event data in Serbia. Gburčik, P., et al. [1994,eng] 50-3318
- Thermomechanical response of the Greenland ice sheet to various climate scenarios. Calov, R., et al. [1996,eng] 50-4522
- Tien Shan: trends of changes in the geocryological conditions. Gorbunov, A.P., et al. [1996,rus] 50-6841
- Toba eruption sulfates recorded in GISP2 ice core. Zielinski, G.A., et al. [1996,eng] 50-5288
- Total ozone during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990,eng] 50-5974
- Tree establishment in subalpine meadows. Woodward, A., et al. [1995,eng] 50-3322
- Tree ring value determination of climatic change in Switzerland. Vogel, R.B., et al. [1996,ger] 50-6714
- Treeline/midge correlation, Northwest Territories, Canada. Walker, I.R., et al. [1995,eng] 50-3326
- Tropical alpine ecology: progress and priorities. Rundel, P.W., et al. [1994,eng] 50-3061
- U.S. FROST: Data and Science Plan. Report from the U.S. Science FROST Workshop, 2 and 3 August 1993. Bromwich, D.H., ed. et al. [1993,eng] 50-3332
- Understanding the impact of climate change on mountain ecosystems: an overview. Guisan, A., et al. [1995,eng] 50-1003
- Vostok ice core deuterium variations over the last two glacial cycles. Waelbroeck, C., et al. [1995,eng] 50-4089
- Water fern residue as Chilean paleoclimatic indicator. Heusser, C.J., et al. [1996,eng] 50-5488
- White spruce light rings in northwestern Canada. Szeicz, J.M., [1996,eng] 50-5492
- Younger Dryas as viewed through the Summit Greenland ice cores. Mayewski, P.A., [1994,eng] 50-5301
- Younger Dryas ice-marginal zone in Sweden. Lundqvist, J., [1995,eng] 50-512
- Climatic extremes**
See [also]: Records (extremes)
- Climatic factors**
110,000-yr record of explosive volcanism from the GISP2 (Greenland) ice core. Zielinski, G.A., et al. [1996,eng] 50-4575
- Acclimation of tree function and structure to climate change and implications to forest carbon balance. Hari, P., et al. [1994,eng] 50-3204
- Aircraft measurements of the stable carbon isotopic ratio of atmospheric methane over Siberia. Sugawara, S., et al. [1996,eng] 50-6051
- Alpine plant diversity: a global survey and functional interpretations. Körner, C., [1995,eng] 50-3892
- Antarctic cloud scattering depth using ground-based radiometry. Ricchiuzzi, P., et al. [1995,eng] 50-1335
- Application of lake temperature model for predicting the effect of climatic change. Virta, J., et al. [1994,eng] 50-3200
- Arctic Ocean dimethyl sulfide seasonal variability. Leck, C., et al. [1996,eng] 50-4313
- Arctic tundra biodiversity: a temporal perspective from Late Quaternary pollen records. Brubaker, L.B., et al. [1995,eng] 50-3894
- Arctic. Barry, R.G., [1996,eng] 50-4977
- Assessing sensitivities of forests to climate change. Fischlin, A., [1995,eng] 50-1018
- Assessment of hydrological changes. Hiltunen, T., [1994,eng] 50-3184
- Atmospheric circulation and sea ice extent in the west Antarctic Peninsula area. Harangozo, S.A., [1994,eng] 50-2992
- Atmospheric surface pressure over the interior of Antarctica. Radok, U., et al. [1996,eng] 50-5678
- Avalanche accumulation cones as subjects of paleoclimatological studies. Vozovik, I.U.I., et al. [1972,rus] 50-546

Climatology

Climatology

- Bioclimatic conditions in the region of Arctowski Station during the summer period. Styszyńska, A., [1989, pol] 50-2931
- Biodiversity and climate in the coastal temperate rainforests of North America. Alaback, P.B., [1996, eng] 50-4063
- Case studies of geoprocesses and environmental change in mountains of northern Sweden. Rapp, A., [1995, eng] 50-4187
- Characteristics of the meteorological regime of glaciers in Upper Svanetia during ablation. Voloshina, A.P., et al., [1972, rus] 50-525
- Chemical and physical conversion in cold atmosphere and the effect of radiation. Kulmala, M., et al., [1994, eng] 50-3187
- Circulation mechanisms in the atmosphere of the Northern Hemisphere in the 20th century. Dzerdzhevskii, B.L., [1968, rus] 50-3400
- Climate change and forest management alternatives. Valsta, L., et al., [1994, eng] 50-3233
- Climate change and the alpine flora: some perspectives. Theurillat, J.P., [1995, eng] 50-1015
- Climate change impact on hydrology and cryology. Sæthun, N.R., [1995, eng] 50-1005
- Climate change impacts on glaciers and permafrost. Haerli, W., [1995, eng] 50-1012
- Climate change impacts on snow cover: modelling case studies in Switzerland and the French Western Alps. Baumgartner, M.F., et al., [1995, eng] 50-1013
- Climate change, plant reproductive ecology, and population dynamics. Molau, U., [1995, eng] 50-1009
- Climate of Inner Mongolia. Wang, W.H., ed., [1990, chi] 50-2172
- Climate of the Qinghai-Xizang Plateau. Dai, J.X., ed., [1990, chi] 50-2173
- Climate of Xinjiang. Li, J.F., ed., [1991, chi] 50-2174
- Climatic conditions of East Grönfjord Glacier. Brzdil, R., et al., [1989, eng] 50-2907
- Climatic controls on glacier mass balance in Glacier Bay. Hunter, L.E., et al., [1995, eng] 50-3737
- Climatic determination of the permafrost active layer in the Hornsund region, SW Spitsbergen. Migala, K., [1989, pol] 50-2898
- Climatic division of snow cover environments in Japan using the mesh climatic data. Ishizaka, M., [1995, jpn] 50-997
- Climatology and perennial lake ice at Burger Hills. Doran, P.T., et al., [1996, eng] 50-6416
- Cold-climate constructed wetlands. Mæhlum, T., et al., [1995, eng] 50-6066
- Constraints on primary productivity in the coastal temperate forests of the Americas. Waring, R.H., et al., [1996, eng] 50-4062
- Current problems in the Aral Sea and prospects for their solutions. Tsytsarin, A.G., et al., [1991, rus] 50-731
- Decomposition of needle litter in a forest ecosystem. Berg, B., et al., [1995, eng] 50-2731
- Degradation of Arctic ice cap islands from climatic warming. Ignat'eva, I.I.U., et al., [1993, rus] 50-883
- Degree-day glacier mass balance modelling. Jóhannesson, T., et al., [1995, eng] 50-455
- Differentiation of temperature and water vapor pressure during summer in NW Spitsbergen. Wójcik, G., et al., [1989, pol] 50-2909
- DTR and cloudcover in the Nordic countries: observed trends and estimates for the future. Kaas, E., et al., [1994, eng] 50-3027
- Dynamic response of high arctic glaciers to global warming and their contribution to sea-level rise. Lam, J.K.W., et al., [1995, eng] 50-6618
- Ecophysiological sensitivity of terrestrial vascular plants to climate change. Jonasson, S., [1995, eng] 50-1007
- Effect of climate change on erosion and nutrient transport from arable land. Kallio, K., et al., [1994, eng] 50-3196
- Effect of climatic change on photosynthesis, respiration and transpiration of Scots pine. Laitinen, K., [1994, eng] 50-3210
- Effect of extreme weather conditions on hydrological phenomena in Spitsbergen. Szczepanik, W., et al., [1989, pol] 50-2914
- Effects of climate change on alpine plant diversity and distribution. Guisan, A., et al., [1995, eng] 50-1016
- Effects of climate change on plant diversity and distribution. Holten, J.L., [1995, eng] 50-1006
- Effects of climate change on water supplies in mountainous snowmelt regions. Rango, A., [1995, eng] 50-6617
- Effects of climate on building construction. Ruch'ev, A.P., et al., [1995, rus] 50-723
- Effects of climatic change on onset of growth and risk of frost damage in Scots pine. Hänninen, H., [1994, eng] 50-3208
- Effects of elevated N-input and CO₂ on *Sphagnum* with different trophic level. Jauhainen, J., et al., [1994, eng] 50-3214
- Empirical study on Nimbus-7 snow mass and Indian summer monsoon rainfall. Kripalani, R.H., et al., [1996, eng] 50-6226
- Encyclopedia of climate and weather. [1996, eng] 50-4973
- Estimating changes in the temperature regime and condition of rocks based on the analysis of climatic data. Ershov, E.D., et al., [1996, rus] 50-6387
- Estimation of climate change effect on the runoff: catchment-scale application of SOIL-model. Roos, J., et al., [1994, eng] 50-3194
- European paleoclimatic changes based on coleopteran analysis. Coepe, G.R., et al., [1995, eng] 50-6565
- Evaluation of surface radiative flux parameterizations for use in sea ice models. Key, J.R., et al., [1996, eng] 50-3451
- Features of using climatic data in calculating rock temperatures in mountainous countries. Leibman, M.O., [1983, rus] 50-315
- Finnish research programme on climate change; second progress report. Kanninen, M., ed., et al., [1994, eng] 50-3179
- Forest dynamics and disturbance in the temperate rainforests of the Americas. Veblen, T.T., et al., [1996, eng] 50-4065
- Framework for modeling the effects of climate change on material fluxes in forested catchments. Holmberg, M., et al., [1994, eng] 50-3197
- Global sea-ice—upper-ocean model: some preliminary results. Fichet, T., et al., [1993, eng] 50-4821
- Impact of climate change on carbon cycle in freshwater ecosystems. Kankaala, P., et al., [1994, eng] 50-3201
- Impacts of climate change on mountain ecosystems: future research and monitoring needs. Guisan, A., et al., [1995, eng] 50-1020
- Individual-based model of alpine plant distributions. Humphries, H.C., et al., [1996, eng] 50-3151
- Labrador Sea atmospheric circulation/sea-ice anomalies. Newell, J.P., [1996, eng] 50-6227
- Late Quaternary vegetation variations in western Beringia. Anderson, P.M., et al., [1996, eng] 50-4341
- Laurentide ice sheet oscillations as cause of Atlantic Ocean Heinrich events. MacAyeal, D.R., [1993, eng] 50-2869
- Laws of distribution of the snow cover on the Greater Caucasus (Soviet Union). Gurtovaia, E.E., et al., [1965, eng] 50-3427
- Methane plumes near Bear Island, Barents Sea. Lammers, S., et al., [1995, eng] 50-748
- Modeling the effects of climate change on lakes. Frisk, T., et al., [1994, eng] 50-3198
- Modeling the effects of climatic change on phosphorus transport from a drainage basin. Biletdin, A., et al., [1994, eng] 50-3199
- New data on the geology and paleogeography of the Late Pliocene-Middle Pleistocene in Eurasia. Kostiaev, A.G., [1996, rus] 50-6355
- Northern forest plants under the pressure of environmental changes. Laine, K., et al., [1994, eng] 50-3231
- Observation of a new absorption band of HOBr and its atmospheric implications. Barnes, R.J., et al., [1996, eng] 50-3968
- Observations in a typical glacial basin of the Bol'shaya Khadada River in 1970-71. Gus'kov, A.S., [1972, rus] 50-529
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge, Alaska. Department of Environmental Conservation. Division of Environmental Quality. [1990, eng] 50-3913
- On favorable and unfavorable properties of continental climates for glaciation. Tronov, M.V., [1973, rus] 50-422
- Origin and evolution of the mountain flora in Middle Asia and neighbouring mountain regions. Agakhaniants, O.E., et al., [1995, eng] 50-3893
- Origin of tropospheric ozone at remote high northern latitudes in summer. Mauzerall, D.L., et al., [1996, eng] 50-3449
- Paleorecords of plant biodiversity in the Alps. Ammann, B., [1995, eng] 50-3896
- Parameterization of surface albedo for sea ice and its snow cover. Barry, R.G., [1996, eng] 50-5014
- Patterns and causes of arctic plant community diversity. Walker, M.D., [1995, eng] 50-3889
- Permafrost distribution in the southern circumpolar region. Bockheim, J.G., [1995, eng] 50-666
- Permafrost in China: past and present. Qiu, G.Q., et al., [1995, eng] 50-664
- Physiological and genetical adaptation of forest trees to climatic changes. Beuker, E., et al., [1994, eng] 50-3205
- Physiological responses of *Pinus sylvestris* on changing carbon dioxide and ozone concentration. Holopainen, T., et al., [1994, eng] 50-3232
- Plant effects on arctic ecosystem biogeochemical processes. Hobbie, S.E., [1995, eng] 50-3901
- Possible responses of mountain vegetation to a global climatic change. Ozenda, P., et al., [1995, eng] 50-1017
- Potential ecological impacts of climate change in the Alps and Fennoscandian mountains. Guisan, A., ed., et al., [1995, eng] 50-1002
- Precipitation, glacier flow and reduction of glacier areas in relation to climate forming factors. Baidal, M.Kh., [1973, rus] 50-431
- Precipitations and atmospheric circulation over western Greater Caucasus. But, I.V., et al., [1973, rus] 50-423
- Problem of the climatic snow line. Lang, H., et al., [1973, ger] 50-3842
- Quaternary geology and cryogenic structure of Taymyr. Derevagin, A.I.U., et al., [1996, rus] 50-6375
- Recent fluctuations of glaciers in Kongsfjorden, Spitsbergen. Svalbard (79°N). Lefauconnier, B., [1992, eng] 50-3436
- Recent oscillations of the San Quintin and San Rafael glaciers, Patagonia Chile. Winchester, V., et al., [1996, eng] 50-5579
- Recent retreat of ice shelves on the Antarctic Peninsula. Vaughn, D., et al., [1995, eng] 50-2155
- Response of boreal forest ecosystems to climatic change and its silvicultural implications: modelling. Kellomäki, S., et al., [1994, eng] 50-3209
- Response of leaching from mire ecosystems to changing climate. Sallantausta, T., [1994, eng] 50-3222
- Response of the boreal forest ecosystem to climatic change and its silvicultural implications. Kellomäki, S., ed., [1994, eng] 50-3207
- Results of the studies of natural deformations of sea ice fields. Smirnov, V.N., et al., [1990, eng] 50-96
- Rock-weathering by the lichen *Lecidea auriculata* in an arctic alpine environment. McCarroll, D., et al., [1995, eng] 50-416
- Satellite monitoring of antarctic stratospheric volcanic aerosols. Saxena, V.K., et al., [1995, eng] 50-591
- Sea ice in the global climate system: requirements for an ocean observing system. Allison, I., et al., [1995, eng] 50-4248
- Seasonal and annual dynamics of frozen ground in the central highland of Iceland. Thórhallsdóttir, T.E., [1996, eng] 50-5499
- Sensitivity of alpine plants to potential climate changes. Skre, O., [1995, eng] 50-1008
- Snow cover and climate in Japan. Ishizaka, M., [1996, jpn] 50-6732
- Snow cover and microrelief. Fukuoka, Y., [1988, jpn] 50-2046
- Solifluction and creep rates 1972-1991, Kapp Linné, West Spitsbergen. Åkerman, H.I., [1993, eng] 50-841
- Solifluction controls in the French Alps. Pissart, A., [1993, eng] 50-839
- Spatial and temporal variability of North American snow cover, 1971-1992. Brown, R.D., [1995, eng] 50-3112
- Spruce-fir forests of eastern North America. White, P.S., et al., [1992, eng] 50-4050
- Temporal characteristics of Pennsylvania snowfall, 1950-1951 through 1989-1990. Acker, J.C., et al., [1995, eng] 50-970
- Temporal redistribution of subalpine meadow trees. Rochefort, R.M., et al., [1996, eng] 50-4336
- Test for time series homogeneity of hail-event data in Serbia. Gburčik, P., et al., [1994, eng] 50-3318
- Thermal balance of the surface of the Marukh Glacier. Voloshina, A.P., [1972, rus] 50-535
- Tree regeneration in Colorado forest-tundra ecosystem. Weisberg, P.J., et al., [1995, eng] 50-3295
- Tropical alpine climates. Rundel, P.W., [1994, eng] 50-3045
- Understanding the impact of climate change on mountain ecosystems: an overview. Guisan, A., et al., [1995, eng] 50-1003
- Vegetation cover of Québec-Labrador 6000 years BP: an essay. Richard, P.J.H., [1995, fre] 50-1457
- Volcanic perturbation of the atmosphere in both polar regions: 1991-1994. Herber, A., et al., [1996, eng] 50-3444
- White spruce light rings in northwestern Canada. Szeicz, J.M., [1996, eng] 50-5492
- Climatology**
- 130 years deposition record of sulfate, nitrate and chloride from a high-alpine glacier. Döschner, A., et al., [1995, eng] 50-4079
- 1989 AASE temperature and wind measurements. Chan, K.R., et al., [1990, eng] 50-5980
- 1990 arctic sea ice reduction related to snow cover minima. Serreze, M.C., et al., [1995, eng] 50-773
- Accumulation rates of carbon in mires in Finland and implications for climate change. Tolonen, K., et al., [1995, eng] 50-6078
- Acid aerosols in rime on Kyushu, Japan. Nagafuchi, O., et al., [1995, eng] 50-4957
- Acid pollutants in air and precipitation/deposition at the Sudeten Mountains, Poland. Kmiec, G., et al., [1995, eng] 50-4954
- Acoustic sounder measurements of the planetary boundary layer at Maitri, Antarctica. Naithani, J., et al., [1995, eng] 50-4208
- Adsorption and photochemistry of dinitrogen tetroxide on low temperature ice layers. Rieley, H., et al., [1996, eng] 50-4295
- Adsorption of methane on natural snow. Chaix, L., et al., [1996, eng] 50-5963
- Aerosol deposition to an alpine tundra ecosystem. Sievering, H., et al., [1996, eng] 50-5964
- Aerosols used as tracers for stratosphere-troposphere exchange in the Arctic. Foltescu, V.L., et al., [1995, eng] 50-777
- Age of carbon black atmospheric aerosols over Finland. Raunemaa, T., et al., [1996, eng] 50-5257
- Air Force Global Weather Central Surface Temperature model. Kopp, T.J., [1995, eng] 50-3300
- Airborne Arctic Stratospheric Expedition: prologue. Turco, R.P., et al., [1990, eng] 50-5973
- Airborne lidar observations in the wintertime arctic stratosphere: ozone. Browell, E.V., et al., [1990, eng] 50-5976
- Airborne measurements of atmospheric methane over oil fields in western Siberia. Tohjima, Y., et al., [1996, eng] 50-6509
- Airborne measurements of stratospheric constituents over the Arctic in the winter of 1989. Mankin, W.G., et al., [1990, eng] 50-6006
- Aircraft measurements of the stable carbon isotopic ratio of atmospheric methane over Siberia. Sugawara, S., et al., [1996, eng] 50-6051
- Albedo. Kellogg, W.W., [1996, eng] 50-4974
- Algorithm to enhance sea ice concentration estimates from radiometric brightness temperatures. St. Germain, K.M., et al., [1992, eng] 50-3564
- ALOMAR—a new facility for middle atmosphere research at arctic latitudes. Thrane, E.V., et al., [1995, eng] 50-4261
- Alpine glacial advances derived from summer air temperature records. Bray, J.R., [1982, eng] 50-3380
- Alpine meteorology—conference in Engelberg, Switzerland, September 1990. Davies, H.C., [1991, eng] 50-5439
- Altimetry of North Atlantic subpolar current variations. White, M.A., et al., [1995, eng] 50-2778
- Analysis of lidar observations of polar stratospheric clouds. Toon, O.B., et al., [1990, eng] 50-5991
- Annual net balance of North Cascade glaciers, 1984-94. Peltó, M.S., [1996, eng] 50-4886
- Antarctic stratospheric spectroscopy using N₂O observations. Crewell, S., et al., [1995, eng] 50-1329
- Antarctica. Warren, S.G., [1996, eng] 50-4975

Climatology

Climatology

- Application of a surface hydrology scheme to a watershed. Leung, L.R., et al. [1996.eng] 50-6056
- Application of passive microwave retrieval algorithms to monitor global snow cover. Armstrong, R.L., et al. [1992.eng] 50-3562
- Approaches to the establishment of future climate scenarios for the alpine region. Wanner, H., et al. [1995.eng] 50-1011
- Archive of digital data from the Defense Meteorological Satellite Program (DMSP). Kroehl, H.W., et al. [1994.eng] 50-5076
- Arctic 'greenhouse effect'. Blanchet, J.P., et al. [1994.eng] 50-5034
- Arctic and antarctic ozone depletion inferred from radiometric soundings. MacKenzie, I.A., et al. [1996.eng] 50-5768
- Arctic and climate: the Arctic Climate System Study program. Kondratiev, K.I.A., et al. [1993.rus] 50-4113
- Arctic atmospheric composition during episodic air pollution. Lejenäs, H., et al. [1996.eng] 50-6710
- Arctic atmospheric particle measurements from forward scattering spectrometer. Dye, J.E., et al. [1990.eng] 50-5995
- Arctic Flux Study: a regional view of trace gas release. Weller, G., et al. [1995.eng] 50-3809
- Arctic haze phenomenon. Shaw, G.E., [1995.eng] 50-4569
- Arctic ozone depletion observed by UARS MLS during the 1994-95 winter. Manney, G.L., et al. [1996.eng] 50-3603
- Arctic polar stratospheric cloud observations by airborne lidar. McCormick, M.P., et al. [1990.eng] 50-5988
- Arctic science, engineering, and education—directory of awards: fiscal year 1994. United States. National Science Foundation, [1994.eng] 50-1553
- Arctic sea ice decreases related to wind variations. Maslanik, J.A., et al. [1996.eng] 50-6511
- Arctic stratospheric aerosol distribution. Brune, W.H., et al. [1990.eng] 50-6014
- Arctic stratospheric cloud and temperature variations, 1989. Hofmann, D.J., [1990.eng] 50-5985
- Arctic systems: natural environments, human actions, nonlinear processes. International Arctic Science Committee, [1995.eng] 50-5302
- Arctic vegetation types as response predictors to global change. Chapin, F.S., III, et al. [1996.eng] 50-6557
- Arctic. Barry, R.G., [1996.eng] 50-4977
- Asian glacier ice flow and mass continuity. Cherkasov, P.A., et al. [1996.eng] 50-6057
- Asian summer monsoon sensitivity to Eurasian snow cover. Douville, H., et al. [1996.eng] 50-5863
- Assessment of global climate model simulations of arctic air temperatures. Tao, X., et al. [1996.eng] 50-5532
- Asymmetric diurnal temperature change in the alpine region. Weber, R.O., et al. [1994.eng] 50-4790
- ATLAS instrument characterization: accuracy of the AASE and AAOE nitrous oxide data sets. Loewenstein, M., et al. [1990.eng] 50-6008
- Atmospheric absorption of solar radiation due to ice clouds. Gautier, C., [1995.eng] 50-957
- Atmospheric aerosol in the Finnish Arctic. Virkkula, A., et al. [1995.eng] 50-4952
- Atmospheric aerosol turbidity over polar regions. Radionov, V.F., et al. [1995.eng] 50-6326
- Atmospheric carbon emission from North Asian lakes: a factor of global significance. Semiletov, I.P., et al. [1996.eng] 50-5609
- Atmospheric chemistry changes versus past climate inferred from polar ice cores. Legrand, M., [1995.eng] 50-1643
- Atmospheric CO₂ variations at Spitsbergen. Engardt, M., et al. [1996.eng] 50-3723
- Atmospheric CO₂ variations inferred from antarctic ice composition. Etheridge, D.M., et al. [1996.eng] 50-3446
- Atmospheric contribution to hydrologic variations in the Arctic. Walsh, J.E., et al. [1994.eng] 50-1034
- Atmospheric observing systems and their data management support structure. Stirling, L.M., [1994.eng] 50-3414
- Atmospheric transport effects on arctic stratospheric chemistry. Yatteau, J.H., et al. [1990.eng] 50-6020
- Atomic emission spectrometry of Greenland snow lead impurities. Lofbanski, R., et al. [1995.eng] 50-4082
- Avalanche climatology of the continental zone in the southern Rocky Mountains. Mock, C.J., [1995.eng] 50-969
- Back to basics: world climatic types. Salmond, J., et al. [1996.eng] 50-3726
- Background stratospheric aerosol and polar stratospheric cloud reference models. McCormick, M.P., et al. [1996.eng] 50-6712
- Balloon sounding of arctic stratospheric chemistry. Kondo, Y., et al. [1990.eng] 50-5999
- Biomass burning signatures in Greenland snow and atmosphere. Dibb, J.E., et al. [1996.eng] 50-3152
- Bismuth in recent snow from central Greenland: preliminary results. Candelone, J.P., et al. [1995.eng] 50-779
- Boreal forest and the polar front. Pielke, R.A., et al. [1995.eng] 50-2847
- Bromine-chlorine coupling in the antarctic ozone hole. Danilin, M.Y., et al. [1996.eng] 50-3065
- Buoys in the Arctic study heat exchange. Honjo, S.S., et al. [1996.eng] 50-6334
- Burns of cloud condensation nuclei (CCN) by dissipating clouds at Palmer Station, Antarctica. Saxena, V.K., [1996.eng] 50-3602
- Calculated and measured air and soil freeze-thaw frequencies. Baker, D.G., et al. [1995.eng] 50-1217
- Calculating thermal and water resources of small river catchment areas in Siberia: part 1. Karnatevich, I.V., [1989.rus] 50-133
- Calculations of ozone destruction during the 1988/89 arctic winter. McKenna, D.S., et al. [1990.eng] 50-6025
- Calibration of a small, low-cost thermal infrared radiometer. Rapier, C.B., et al. [1996.eng] 50-6623
- Cation trace analysis of snow and firn samples from high-alpine sites by ion chromatography. Döschner, A., et al. [1995.eng] 50-594
- Century of accumulation and temperature changes in Dronning Maud Land, Antarctica. Isaksson, E., et al. [1996.eng] 50-4352
- Changes in trace element speciation in Kola north surface waters during snow melt. Rodushkin, I.V., et al. [1995.eng] 50-4080
- Characteristics of Arctic Ocean climate based on COADS data, 1980-1993. Clark, M.P., et al. [1996.eng] 50-6545
- Chemical variations between polar stratospheric cloud phases. Ravishankar, A.R., et al. [1996.eng] 50-3443
- Cirrus clouds. Heymsfield, A.J., [1996.eng] 50-4979
- Cirrus infrared parameters and shortwave reflectance relations from observations. Spinhirne, J.D., et al. [1995.eng] 50-5162
- Classification of arctic cloud and sea ice features in multi-spectral satellite data. Key, J.R., [1994.eng] 50-4357
- Climate change and GCM simulation of water resources from mountain snowpack. McGinnis, D.L., [1994.eng] 50-6690
- Climate change and snow-cover duration in the Australian Alps. Whetton, P.H., et al. [1996.eng] 50-4751
- Climate change in mountain environments. Willis, I., et al. [1995.eng] 50-1522
- Climate change in the recent evolution of a pro-glacial lake. Webster, J., et al. [1996.eng] 50-3704
- Climate models and scenarios. Fortelius, C., et al. [1994.eng] 50-3185
- Climate simulations with a global atmosphere-ocean model. pt.1. Lunkeit, F., et al. [1996.eng] 50-4090
- Climate, snow cover, glaciers, and runoff in the Tien Shan, central Asia. Aizen, V.B., et al. [1995.eng] 50-2538
- Climatic atlas of Labrador Sea seasonal ice concentration. Wang, J., et al. [1991.eng] 50-5259
- Climatic implications of ice microphysics. Liou, K.N., [1995.eng] 50-958
- Climatic implications of solar modulation of cosmogenic isotopes in antarctic ice cores. Steig, E.J., et al. [1996.eng] 50-3549
- Climatic influences on Chinese water resources. Shi, Y.F., et al. [1995.eng] 50-4231
- Climatological aspects of cyclone development and decay in the Arctic. Serreze, M.C., [1995.eng] 50-599
- Climatology of high-latitude air pollution as illustrated by Fairbanks and Anchorage, Alaska. Bowling, S.A., [1986.eng] 50-4910
- Cloud attenuation of ultraviolet radiation in alpine regions. Blumhauer, M., et al. [1996.eng] 50-3610
- Cloud condensation nuclei over the Arctic Ocean in early spring. Hegg, D.A., et al. [1995.eng] 50-348
- Cloud physics. Orville, H.D., [1996.eng] 50-4980
- Coherent observation operators for surface data assimilation with application to snow depth. Urban, B., [1996.eng] 50-3008
- Cold regions engineering research—a strategic plan. Carlson, R.F., ed. et al. [1988.eng] 50-6209
- Comments on paper by Dey et al. Ropelewski, C.F., et al. [1984.eng] 50-4916
- Comparison between snow cover products derived from visible and microwave satellite observations. Basist, A., et al. [1996.eng] 50-3007
- Comparison of methods used to create estimate of air-freezing index. Steurer, P.M., et al. [1995.eng] 50-360
- Comparison of monthly sea ice simulation models. Wu, X.R., et al. [1996.eng] 50-5451
- Condensation nuclei production in the arctic polar vortex. Wilson, J.C., et al. [1990.eng] 50-5983
- Controls on CH₄ flux from an Alaskan boreal wetland. Moosavi, S.C., et al. [1996.eng] 50-6053
- Correlation between atmospheric pressure anomalies and snowpack accumulation. McCabe, G.J., Jr., et al. [1995.eng] 50-1551
- Crop-hail damage in the Midwest corn belt. Hillaker, H.J., Jr., et al. [1985.eng] 50-4592
- Cryospheric indices of global change. Barry, R.G., et al. [1994.eng] 50-4789
- Cryospheric observing systems and data management. Barry, R.G., [1994.eng] 50-3415
- Data filtering for thermal mapping of road surface temperatures. Shao, J., et al. [1995.eng] 50-775
- Decadal evolution of the antarctic ozone hole. Jiang, Y., et al. [1996.eng] 50-5253
- Decadal oscillations driven by the annual cycle in a zonally-averaged coupled ocean-ice model. Yang, J.Y., et al. [1996.eng] 50-3069
- Denitrification mechanisms in the polar stratospheres. Toon, O.B., et al. [1990.eng] 50-6001
- Denitrification of the polar winter stratosphere. Hamill, P., et al. [1990.eng] 50-6000
- Deposit of atmospheric biphenyls in the Canadian Arctic. Gregor, D., et al. [1996.eng] 50-6521
- Deposition around a coal-fired power station during a winter-time precipitation event. Jylhä, K., [1995.eng] 50-4953
- Design of an Airborne Imaging Microwave Radiometer. Paul, J.L., et al. [1992.eng] 50-3570
- Detecting and monitoring snow cover variability. Barry, R.G., et al. [1995.eng] 50-3314
- Detection and monitoring of H₂O and CO₂ ice clouds on Mars. Bell, J.F., III, et al. [1996.eng] 50-5195
- Detection of air pollution at a Svalbard mountain station. Beine, H.J., et al. [1996.eng] 50-5205
- Detection of climate change in the Arctic: an updated report. Ye, H.C., et al. [1994.eng] 50-3026
- Detection of polar stratospheric clouds with ERS-2/GOME data. Meerkötter, R., [1995.eng] 50-2150
- Detection of weakly precipitating winter clouds by a NOAA 404-MHz wind profiler. Orr, B.W., et al. [1996.eng] 50-5164
- Development of a Baltic Sea ice climate model. Leppäranta, M., et al. [1994.eng] 50-3202
- Development of a climate generator for Finland. II. Posch, M., [1994.eng] 50-3227
- Development of a regional climate model of the western Arctic. Lynch, A.H., et al. [1995.eng] 50-597
- Dimethyl sulfide in the arctic atmosphere. Ferek, R.J., et al. [1995.eng] 50-2850
- Distribution and transport of atmospheric water vapour over the arctic basin. Serreze, M.C., et al. [1995.eng] 50-5217
- Distribution of hydrogen peroxide in surface snow over antarctic ice sheet. Kamiyama, K., et al. [1996.eng] 50-3452
- Distributions of volcanic aerosols in antarctic polar stratospheric clouds. Adriani, A., et al. [1995.eng] 50-2848
- Downwelling radiation flux at continental surfaces. Garratt, J.R., et al. [1996.eng] 50-5018
- Downwelling radiation fluxes at the arctic surface based on parameterizations. Silcox, R.A., [1994.eng] 50-5303
- DTR and cloudcover in the Nordic countries: observed trends and estimates for the future. Kaas, E., et al. [1994.eng] 50-3027
- Dual-polarization airborne lidar observations of polar stratospheric cloud evolution. Poole, L.R., et al. [1990.eng] 50-5990
- Dynamic influences on the antarctic ozone hole. Harvey, M.W., et al. [1996.eng] 50-6648
- ECMWF analyses and predictions of the surface climate of Greenland and Antarctica. Genton, C., et al. [1995.eng] 50-1327
- Ecogeochemical investigations, Kola Peninsula: sulphur and trace element content in snow. Ayrás, M., et al. [1995.eng] 50-4081
- Ecological controls on peatland methane emissions in discontinuous permafrost. Bubier, J.L., et al. [1995.eng] 50-2803
- Ecophysiology of a snow-bed moss during snowmelt. Woolgrove, C.E., et al. [1996.eng] 50-6748
- Effect of climate warming on the Qinghai-Tibet Highway. China. Tong, C.J., et al. [1996.eng] 50-3830
- Effect of dynamical mixing in a simple model of the ozone hole. Edouard, S., et al. [1996.eng] 50-6332
- Effect of sea ice distribution on atmospheric circulation models. Grötzner, A., et al. [1996.eng] 50-5864
- Effects of sea ice cover on atmospheric methane over the Sea of Okhotsk. Lammers, S., et al. [1995.eng] 50-1147
- Effects of solar radiation variations on ice age initiation. Ledley, T.S., et al. [1995.eng] 50-1254
- Eight-year time series radiometric measurement of snow and sea ice covers. Ferraro, R.R., et al. [1996.eng] 50-5769
- Empirical study on Nimbus-7 snow mass and Indian summer monsoon rainfall. Kripplani, R.H., et al. [1996.eng] 50-6226
- Encyclopedia of climate and weather. [1996.eng] 50-4973
- Energy balance of snow and partially snow covered areas in western Greenland. Harding, R.J., et al. [1995.eng] 50-5088
- Energy partitioning at treeline forest and tundra sites and its sensitivity to climate change. Lafleur, P.M., et al. [1995.eng] 50-600
- Estimation of aerosol deposition to a snow surface. Sharma, M., et al. [1995.eng] 50-3011
- Estimation of surface albedo from NOAA AVHRR data in high latitudes. Laine, V., et al. [1996.eng] 50-5870
- Evaluation of surface radiative flux parameterizations for use in sea ice models. Key, J.R., et al. [1996.eng] 50-3451
- Evaluation of the changes in regional wintertime deposition in Finland during 1976-1993. Sovieri, J., et al. [1995.eng] 50-4956
- Evaporation from a small lake in the continental Arctic using multiple methods. Gibson, J.J., et al. [1994.eng] 50-5694
- Evidence for arctic ozone depletion in late February and early March 1994. Manney, G.L., et al. [1995.eng] 50-4540
- Evidence for the removal of gaseous HNO₃ inside the arctic polar vortex in January 1992. Höpfner, M., et al. [1996.eng] 50-3064
- Evidence of arctic-wide atmospheric aerosols from DMSP visible imagery. Shine, K.P., et al. [1984.eng] 50-4494
- Evidence of mechanism for polar stratospheric cloud dehydration. Gandrud, B.W., et al. [1990.eng] 50-6003
- Evolution of water vapor in the southern polar stratosphere. Lahoz, W.A., et al. [1996.eng] 50-5011
- Fargo snowstorm of 6-8 January 1989. Weisman, R.A., [1996.eng] 50-6061
- First results of ¹⁵N/¹⁴N ratios in nitrate from alpine and polar ice cores. Freyer, H.D., et al. [1996.eng] 50-3724
- Foraminiferal evidence for Greenland environmental change. Jennings, A.E., et al. [1995.eng] 50-6079
- Forest fire records inferred from Greenland ice core chemistry. Legrand, M., et al. [1996.eng] 50-3447

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- Formation of polar stratospheric clouds on preactivated background aerosols. Zhang, R.Y., et al. [1996,eng] 50-6510
- Freshwater impact on Hudson Bay ecosystems under sea ice, pt.1. Ingram, R.G., et al. [1996,eng] 50-4019
- Frost-free record reconstruction for eastern Massachusetts, 1733-1980. Baron, W.R., et al. [1984,eng] 50-4915
- Frost. Henry, J.A., [1996,eng] 50-4982
- Further discussion on simulation of the modern arctic climate by the NCAR CCM1. Williamson, D.L., et al. [1996,eng] 50-6573
- GCM response to an antarctic polynya. Glowienka-Hense, R., [1995,eng] 50-3100
- Glaciers and global warming. Koerner, R.M., et al. [1995,eng] 50-5040
- Glaciers and lakes in the Tianshan Mountains as indicators of climatic change. Hu, R.J., et al. [1994,eng] 50-3998
- Glaciers. Meier, M.F., [1996,eng] 50-4983
- Glacio-meteorological and isotopic studies along the EGIS line, central Greenland. Fischer, H., et al. [1995,eng] 50-1873
- Global environmental change: the northern North Atlantic. Schäfer, P., et al. [1995,eng] 50-745
- Global sea-ice—upper-ocean model: some preliminary results. Fichet, T., et al. [1993,eng] 50-4821
- Global three-dimensional constituent fields derived from profile data. Douglass, A.R., et al. [1990,eng] 50-6018
- Global warming cuts no ice in Greenland. Gribbin, J., [1995,eng] 50-1966
- Global warming. Chandler, M.A., [1996,eng] 50-4984
- Greenhouse effect. Kellogg, W.W., [1996,eng] 50-4985
- Greenland atmospheric aerosol composition during a foehn. Kikuchi, K., et al. [1996,eng] 50-6216
- Greenland ice sheet thickness changes measured by laser altimetry. Thomas, R., et al. [1993,eng] 50-4803
- Ground-based aerosol measurements at Arrival Heights, Antarctica. Kreher, K., et al. [1996,eng] 50-6681
- Growth of acidic polar stratospheric aerosols. Hamill, P., et al. [1996,eng] 50-4311
- Hail in southwestern France. I: Hailfall characteristics and hail-storm environment. Dessens, J., [1986,eng] 50-4911
- Hail prevention in southwestern France. Dessens, J., [1986,eng] 50-4912
- Hailstorm in Hong Kong. Lee, B.Y., et al. [1996,eng] 50-3962
- Hailstorms. Bluestein, H.B., [1996,eng] 50-4988
- Halocarbon seasonal variations in the arctic troposphere. Yokouchi, Y., et al. [1996,eng] 50-5612
- Heat budgets of the Arctic Ocean and Nordic Seas. Simonsen, K., et al. [1996,eng] 50-4298
- Heterogeneous conversion of COF₂ to HF in polar stratospheric clouds. Wofsy, S.C., et al. [1990,eng] 50-6004
- Heterogeneous interactions of stratospheric aerosols. Abbatt, J.P.D., [1996,eng] 50-6512
- High-latitude climate change with an atmospheric coupled sea ice model. Washington, W.M., et al. [1996,eng] 50-6055
- Himalayan summer snow cover and withdrawal of the Indian summer monsoon. Dey, B., et al. [1985,eng] 50-4970
- Historical record of blizzards/major snow events in the British Isles, 1880-1989. Wild, R., et al. [1996,eng] 50-3961
- Historical records of fatty acids in an ice core from Site-J, Greenland. Kawamura, K., et al. [1995,eng] 50-3247
- Holocene glacier variations in central Asia. Savoskul, O.S., et al. [1996,eng] 50-4372
- Hoods, mists, frosts, and ice caps at the poles of Mars. Dollfus, A., et al. [1996,eng] 50-5194
- Hydrologic cycle parameterization for energy balance climate models. Chu, S.P., et al. [1995,eng] 50-587
- Hydrological effects of hypothetical climate change in the East River basin, Colorado, USA. McCabe, G.J., Jr., et al. [1995,eng] 50-740
- Ice ages and the Milankovitch theory: a study of interactive climate feedback mechanisms. Cess, R.D., et al. [1979,eng] 50-2976
- Ice cloud microphysics in a general circulation model, pt.1. Fowler, L.D., et al. [1996,eng] 50-5015
- Ice cloud microphysics in a general circulation model, pt.2. Fowler, L.D., et al. [1996,eng] 50-5016
- Ice cloud microphysics in a general circulation model, pt.3. Fowler, L.D., et al. [1996,eng] 50-5017
- Ice sheet model test via glacial geological research in West Greenland. Van Tatenhove, F.G.M., et al. [1995,eng] 50-2013
- Ice sheets, climate change and sea level. Drewry, D., [1996,eng] 50-3411
- Icebreakers transit Arctic for global climate studies. [1996,eng] 50-6677
- Icelandic Low. Hordon, R.M., [1996,eng] 50-4992
- Impact of heterogeneous reactions on stratospheric chemistry of the Arctic. Douglass, A.R., et al. [1989,eng] 50-4708
- Impacts of climate variability and change on Canadian wetlands. Woo, M.K., [1992,eng] 50-4805
- Importance of the correction of precipitation measurements on the Tibetan Plateau. Ueno, K., et al. [1996,eng] 50-5775
- In situ measurements of BrO in the arctic stratosphere. Toohy, D.W., et al. [1990,eng] 50-6015
- In situ measurements of NO₂ in the Airborne Arctic Stratospheric Expedition. Carroll, M.A., et al. [1990,eng] 50-6011
- Influence of forest fire aerosols on sampling of polar atmospheres. Polissar, A.V., et al. [1996,eng] 50-5206
- Influence of the growth mechanisms of snow particles on their chemical composition. Takahashi, T., et al. [1996,eng] 50-5610
- Initial assessment of multi-scale measures of CO₂ and H₂O flux in the Siberian taiga. Hollinger, D.Y., et al. [1995,eng] 50-3810
- Interaction of peroxyacetic acid with solid H₂O ice. Li, Z.J., et al. [1996,eng] 50-4350
- Interannual climate variability and snowpack in the western United States. Cayan, D.R., [1996,eng] 50-5529
- Interannual variability of sea-level pressure, sea-ice and runoff over the Arctic. Power, S.B., et al. [1991,eng] 50-5258
- Interdecadal climate variability in the subpolar North Atlantic. Wohleben, T.M.H., et al. [1995,eng] 50-2743
- International Conference on Global Change and Arctic Terrestrial Ecosystems—recommendations. Arctic Global Change Conference, Oppdal, Norway, Aug. 21-26, 1993, [1993,eng] 50-3331
- International Conference on the Role of Polar Regions in Global Change. Weller, G.E., [1991,eng] 50-5438
- Interpretation of nitric oxide profile observed in January 1992 over Kiruna. Kondo, Y., et al. [1996,eng] 50-6637
- Investigation of the general circulation of the Arctic Ocean using an isopycnal model. Holland, D.M., et al. [1996,eng] 50-3822
- Ion-induced nucleation around radon daughters in remote arctic maritime air. Bigg, E.K., [1996,eng] 50-4322
- Ionisation and solvation of stratospherically relevant molecules on ice films. Banham, S.F., et al. [1995,eng] 50-5959
- Isotopic analysis of snow on Asian glacier surfaces. Aizen, V.B., et al. [1996,eng] 50-5256
- Isotopic calibration of Canadian arctic climatic change records. Beltrami, H., et al. [1995,eng] 50-3682
- Laboratory simulation of polar stratospheric cloud formation. Iraci, L.T., et al. [1995,eng] 50-1333
- Labrador Sea atmospheric circulation/sea-ice anomalies. Newell, J.P., [1996,eng] 50-6227
- Lagrangian transport calculations using UARS data. Part II: ozone. Manney, G.L., et al. [1995,eng] 50-365
- Land surface studies and atmospheric effects by satellite microwave radiometry. Aschbacher, J., [1990,eng] 50-6691
- Late-Holocene glaciation and twentieth-century retreat, northeastern Brooks Range, Alaska. Evison, L.H., et al. [1996,eng] 50-4371
- Lidar measurements of arctic polar ozone depletion. Wirth, M., et al. [1996,eng] 50-5286
- Lidar observation of wintertime polar stratospheric clouds. Browell, E.V., et al. [1990,eng] 50-5989
- Lidar observations of polar stratospheric cloud growth. Poole, L.R., et al. [1988,eng] 50-4634
- Lidar observations of stratospheric temperature above McMurdo Station, Antarctica. Di Donfrancesco, G., et al. [1996,eng] 50-5605
- Lidar of Canadian arctic stratospheric ozone. Donovan, D.P., et al. [1995,eng] 50-3095
- Little Ice Age temperature estimated by arctic heather growth variations. Havström, M., et al. [1995,eng] 50-1121
- Long-range tropospheric transport of pollution aerosols into the Alaskan Arctic. Raatz, W.E., et al. [1984,eng] 50-4722
- Long-term arctic stratospheric temperature variations. Nagatani, R.M., et al. [1990,eng] 50-5978
- Long-term observations for monitoring of the cryosphere. Walsh, J.E., [1995,eng] 50-3350
- Long-term snow variations at Nagaoka, Japan. Nakamura, T., et al. [1996,eng] 50-4898
- Loss of ozone in the arctic vortex for the winter of 1989. Salawitch, R.J., et al. [1990,eng] 50-6027
- Low brightness temperatures of Martian polar caps: CO₂ clouds or low surface emissivity? Forget, F., et al. [1995,eng] 50-2120
- Low cloud icing climatological data. Takasugi, S., [1970,eng] 50-4405
- Low ozone concentrations in mid-latitude ice clouds. Reichardt, J., et al. [1996,eng] 50-6543
- Low-temperature photochemistry of submicrometer nitric acid and ammonium nitrate layers. Koch, T.G., et al. [1996,eng] 50-6682
- Making an ice core. Kopaska-Merkel, D.C., [1995,eng] 50-1150
- Martian atmospheric carbon 14 as indicator of atmosphere-regolith gas exchange. Jakosky, B.M., et al. [1996,eng] 50-3009
- Measurements of Alaskan spring atmospheric ozone content. Beine, H.J., et al. [1996,eng] 50-6640
- Measurements of nitrogen oxides in the Arctic. Honrath, R.E., et al. [1990,eng] 50-6028
- Measurements of total reactive nitrogen during the Airborne Arctic Stratospheric Expedition. Kawa, S.R., et al. [1990,eng] 50-6009
- Measurements of upward turbulent ozone fluxes above a subalpine spruce-fir forest. Zeller, K., et al. [1996,eng] 50-5289
- Mechanisms of direct and indirect climate forcing by aerosols in the arctic region. Blanchet, J.P., [1995,eng] 50-1642
- Meteor-3/TOMS observations of the 1994 ozone hole. Herman, J.R., et al. [1995,eng] 50-3092
- Meteorological events on the Italian Alps during the winter of 1993-94. Costantini, N., et al. [1994,ita] 50-1561
- Microclimatic models, estimation of solar radiation and evaporation over land surfaces. Heikinheimo, M., et al. [1994,eng] 50-3186
- Microwave retrieval algorithm for remote sensing of precipitation. Weng, F., et al. [1992,eng] 50-3566
- Mid stratospheric ozone minima in polar regions. Austin, J., et al. [1995,eng] 50-1181
- Model calculations of ozone depletion in the arctic polar vortex for 1991/92 to 1994/95. Chipperfield, M.P., et al. [1996,eng] 50-3551
- Model for measuring PAH deposits on snow. Sharma, M., et al. [1995,eng] 50-3037
- Model of arctic air pollution by sulfur aerosols. Dastoor, A.P., et al. [1996,eng] 50-5450
- Model study of polar stratospheric clouds, pt.1. De Rudder, A., et al. [1996,eng] 50-6638
- Model study of polar stratospheric clouds, pt.2. Tie, X.X., et al. [1996,eng] 50-6639
- Model to retrieve precipitation rate profiles from airborne radar and radiometer measurements. Weinman, J.A., et al. [1992,eng] 50-3571
- Modeling and observational study of East Antarctic surface mass balance. Connolly, W.M., et al. [1996,eng] 50-3017
- Modeling climatic sensitivity of European marginal seas. Backhaus, J.O., [1996,eng] 50-4022
- Modeling the surface heat flux response to long-lived SST anomalies in the North Atlantic. Power, S.B., et al. [1995,eng] 50-639
- Modelling the controls on boreal tree species range limits. Sykes, M.T., et al. [1995,eng] 50-770
- Modelling the redistribution of runoff caused by global warming. Martinec, J., et al. [1994,eng] 50-5202
- Multi-temporal microwave satellite observations of plains snowpacks. Wankiewicz, A., et al. [1992,eng] 50-3563
- N₂O as a dynamical tracer in the arctic vortex. Loewenstein, M., et al. [1990,eng] 50-6007
- Near UV polar stratospheric absorption measurements. Wahner, A., et al. [1990,eng] 50-6012
- New formulation for the Bowen ratio over saturated surfaces. Andreas, E.L., et al. [1996,eng] 50-6570
- Nitric acid in polar stratospheric clouds. Pueschel, R.F., et al. [1990,eng] 50-5997
- Nitric oxide measurements in the arctic winter stratosphere. Fahey, D.W., et al. [1990,eng] 50-6010
- Noctilucent clouds and the thermal structure near the arctic mesopause in summer. Lübken, F.J., et al. [1996,eng] 50-5453
- North Pole. Headland, R.K., [1996,eng] 50-4994
- Northern exposures. Thomson, K.S., [1993,eng] 50-3146
- NSF: ocean sciences, arctic & global change research. Gross, M.G., [1991,eng] 50-719
- Numerical analysis of atmospheric water cycle over Antarctica. Bromwich, D.H., et al. [1995,eng] 50-2020
- Numerical case study of a polar low in the Labrador Sea. Mailhot, J., et al. [1996,eng] 50-5869
- Numerical simulation of polar lows. Grønås, S., et al. [1995,eng] 50-2525
- Objective determination of the polar vortex using Ertel's potential vorticity. Nash, E.R., et al. [1996,eng] 50-5452
- Observational studies of the role of polar regions in mid-latitude ozone loss. Jones, R.L., et al. [1995,eng] 50-3094
- Observations of polar stratospheric clouds in the arctic winter 1989 at 79°N. Krüger, B.C., [1990,eng] 50-5984
- Observed particle evolution in the polar stratospheric cloud of January 24, 1989. Dye, J.E., et al. [1990,eng] 50-5996
- Oceanic satellites in the Global Ocean Observing System. Sherman, J.W., III, [1993,eng] 50-4801
- On the age of stratospheric air and inorganic chlorine and bromine release. Daniel, J.S., et al. [1996,eng] 50-6331
- On the climatological mean circulation over the eastern Bering Sea shelf. Reed, R.K., et al. [1996,eng] 50-6201
- On the interannual variability of precipitation and runoff in the Mackenzie drainage basin. Björnsson, H., et al. [1995,eng] 50-2737
- On the polar stratospheric cloud formation potential of the northern stratosphere. Pawson, S., et al. [1995,eng] 50-2116
- On the scattering behaviour of bullet-rosette and bullet-shaped ice crystals. Strauss, B., [1996,eng] 50-6228
- On using historical comparisons in evaluating cloud seeding operations. Gabriel, K.R., et al. [1983,eng] 50-4492
- Optical backscatter characteristics of arctic polar stratospheric clouds. Kent, G.S., et al. [1990,eng] 50-5987
- Origin of tropospheric ozone at remote high northern latitudes in summer. Mauzerall, D.L., et al. [1996,eng] 50-3449
- Overview of the Arctic Ocean Expedition of 1991 (AOE-91). Leck, C., et al. [1996,eng] 50-4312
- Ozone and aerosol correlated observations at Thule, Greenland, in the period 1991-1994. Di Sarra, A., et al. [1995,eng] 50-2849
- Ozone deposition in a subarctic woodland, pt.1. Munger, J.W., et al. [1996,eng] 50-6641
- Ozone hole. Hall, T.M., [1996,eng] 50-4995
- Ozone layer concentration over the Weddell Sea. Elanskii, N.F., et al. [1995,eng] 50-6328
- Parameterization of cirrus optical depth and cloud fraction. Soden, B., [1995,eng] 50-960
- Parameterization of clouds and radiation in climate models. Roeckner, E., [1995,eng] 50-959
- Parameterization of surface albedo for sea ice and its snow cover. Barry, R.G., [1996,eng] 50-5014
- Peroxide concentrations in the Dome Summit South ice core, Law Dome, Antarctica. van Ommen, T.D., et al. [1996,eng] 50-6327
- Photooxidants in the marine arctic troposphere in summer. Weller, R., et al. [1996,eng] 50-5255
- Physical characteristics of arctic stratus clouds. Tsay, S.C., et al. [1984,eng] 50-4922

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Cloud cover

- Physical climatology of alpine tundra, Scout Mountain, British Columbia. Saunders, I.R., et al. [1996,eng] 50-4235
- Planetary waves in total ozone and their relation to antarctic ozone depletion. Bodeker, G.E., et al. [1995,eng] 50-4541
- Polar ice stratigraphy from laser-light scattering: scattering from ice. Ram, M., et al. [1995,eng] 50-3098
- Polar lows. Rasmussen, E.A., [1996,eng] 50-4997
- Polar stratospheric cloud event of January 24: part 2, photochemistry. Jones, R.L., et al. [1990,eng] 50-6022
- Polar stratospheric cloud event, 1989, pt.1. Poole, L.R., et al. [1990,eng] 50-6021
- Polar stratospheric cloud influence on arctic atmospheric chemistry. Jones, R.L., et al. [1990,eng] 50-6023
- Polar stratospheric radiation absorption measurements, pt.2. Schiller, C., et al. [1990,eng] 50-6013
- Polar stratospheric radiation absorption measurements, pt.3. Wahner, A., et al. [1990,eng] 50-6016
- Precursor signals associated with the interannual variability of the Asian summer monsoon. Yang, S., et al. [1996,eng] 50-5530
- Preliminary considerations for runoff modelling in GCMs. Versegny, D., [1994,eng] 50-5701
- Preliminary results from POAM II: stratospheric ozone at high northern latitudes. Randall, C.E., et al. [1995,eng] 50-1213
- Pressure cutoff effects on polar stratospheric chemistry. Cerniglia, M.C., et al. [1995,eng] 50-5588
- Probability distributions used in 100-year return period of air-freezing index. Steurer, P.M., [1996,eng] 50-4753
- Proceedings. International Experts' Meeting on Wind Power in Icing Conditions, Helsinki, Finland, 1992. Boreas-North Wind-Pohjanuoli. [1992,eng] 50-3626
- Radar and radiation properties of ice clouds. Atlas, D., et al. [1995,eng] 50-1246
- Radiative effects of polar stratospheric clouds. Kinne, S., et al. [1990,eng] 50-5986
- Radiative heating rates during the Airborne Arctic Stratospheric Expedition. Rosenfield, J.E., et al. [1990,eng] 50-5981
- Radiometry of Scandinavian atmospheric chemistry. Wehr, T., et al. [1995,eng] 50-1332
- Recent air pollution variations inferred from Greenland ice sheet heavy metal concentrations. Candelone, J.P., et al. [1995,eng] 50-590
- Recent climatic trend and thermal response of permafrost in Saluit, northern Quebec, Canada. Wang, B.L., et al. [1996,eng] 50-6699
- Recent trends in maximum and minimum temperature threshold exceedances in the northeastern United States. DeGaetano, A.T., [1996,eng] 50-6572
- Recent white spruce dynamics at the subarctic alpine treeline of north-western Canada. Szeicz, J.M., et al. [1995,eng] 50-3036
- Reconstruction of 1000-year winter precipitation from tree rings in New Mexico. D'Arrigo, R.D., et al. [1991,eng] 50-5032
- Reconstruction of O₃ and N₂O fields from ER-2, DC-8, and balloon observations. Lait, L.R., et al. [1990,eng] 50-6017
- Reconstruction of the ice winter severity since 1701 in the western Baltic. Koslowski, G., et al. [1995,eng] 50-1957
- Record low Siberian ozone levels. Bojkov, R.D., et al. [1995,eng] 50-1212
- Recovery of ozone in the lower stratosphere at the South Pole during the spring of 1994. Hofmann, D.J., et al. [1995,eng] 50-1182
- Redistribution of reactive odd nitrogen in the lower arctic stratosphere. Hubler, G., et al. [1990,eng] 50-6002
- Refractive index and density of vapor-deposited ice. Berland, B.S., et al. [1995,eng] 50-3096
- Regional variations of moist static energy flux into the Arctic. Overland, J.E., et al. [1996,eng] 50-3816
- Relationship between atmospheric circulation and antarctic ozone depletion. Butchart, N., et al. [1996,eng] 50-3963
- Relationship between snow cover boundary and air temperature. Kislov, A.V., [1994,eng] 50-6093
- Response of snowmelt hydrology to climate change. Brubaker, K.L., et al. [1996,eng] 50-6614
- Results from the 1994 Boreal Ecosystem-Atmosphere Study (BOREAS). Sellers, P., et al. [1995,eng] 50-4574
- Rime climate in Sodankylä. Säntti, K., et al. [1992,eng] 50-3630
- Rocket-borne spectrometry of arctic stratospheric chemistry. Schlager, H., et al. [1990,eng] 50-5998
- Role of air-sea heat flux in Newfoundland Shelf sea temperature variability. Umoh, J.U., et al. [1995,eng] 50-4209
- Role of atmospheric waves in the laminated structure of ozone profiles at high latitude. Teitelbaum, H., et al. [1996,eng] 50-5871
- Role of ice in the global water cycle. Lawford, R.G., [1993,eng] 50-5079
- Role of January in the character of recent winters in the United States. Diaz, H.F., [1984,eng] 50-4914
- Role of spaceborne millimeter-wave radar in the global monitoring of ice cloud. Brown, P.R.A., et al. [1995,eng] 50-1247
- SAGE II observations of polar stratospheric clouds near 50°N January 31-February 2, 1989. Pitts, M.C., et al. [1990,eng] 50-5994
- SAM II aerosol measurements during the 1989 AASE. Osborn, M.T., et al. [1990,eng] 50-5992
- SAM II and lidar aerosol profile comparisons during AASE. Osborn, M.T., et al. [1990,eng] 50-5993
- Satellite measurements of cloud microphysical properties. Poix, C., et al. [1996,eng] 50-4571
- Satellite observation of arctic ozone depletion. Müller, R., et al. [1996,eng] 50-6636
- Satellite observation of lake ice as a climate indicator. Wynne, R.H., et al. [1993,eng] 50-2862
- Satellite sounding of arctic stratospheric temperatures. Claud, C., et al. [1996,eng] 50-3445
- Scaling of input data for macroscale hydrologic modeling. Kite, G.W., [1995,eng] 50-2544
- Sea ice in the global climate system: requirements for an ocean observing system. Allison, I., et al. [1995,eng] 50-4248
- Sea ice variations under doubled atmospheric carbon dioxide. Timbal, B., et al. [1995,eng] 50-2734
- Sea ice. Parkinson, C.L., [1996,eng] 50-4998
- Seasonal aerosol variability in the arctic marine boundary layer. Leck, C., et al. [1996,eng] 50-4320
- Seasonal cycle of C₂-C₃ hydrocarbons over the Baltic Sea and northern Finland. Laurila, T., et al. [1996,eng] 50-5607
- Seasonal nitrogen cycles on Pluto. Hansen, C.J., et al. [1996,eng] 50-4347
- Seasonal simulation of the southern ocean coupled ice-ocean system. Häkkinen, S., [1995,eng] 50-2113
- Siberian tundra CO₂ flux as a source of seasonal CO₂ variations. Zimov, S.A., et al. [1996,eng] 50-5868
- Simple model to estimate atmospheric concentrations of aerosol chemical species based on snow core chemistry at Summit, Greenland. Bergin, M.H., et al. [1995,eng] 50-3097
- Simulating the evolution of the chemical composition of the 1988/89 winter vortex. Jones, R.L., et al. [1990,eng] 50-6024
- Simulation of arctic stratospheric response to aerosol perturbations. Zhao, X.P., et al. [1996,eng] 50-6680
- Simulation of climatic model of global snow cover evolution. Douville, H., et al. [1995,eng] 50-2736
- Simulation of polar stratospheric aerosols. Kaye, J.A., et al. [1990,eng] 50-6019
- Simulation of streamflow in a macroscale watershed using general circulation model data. Kite, G.W., et al. [1994,eng] 50-3820
- Small ice cap instability in the presence of fluctuations. Lee, W.H., et al. [1995,eng] 50-641
- Small-scale waves encountered during AASE. Bacmeister, J.T., et al. [1990,eng] 50-5982
- Snow accumulation rate from synthesis of microwave and altimeter data. Davis, C.H., [1995,eng] 50-162
- Snow and ice cover and climate sensitivity. Oerlemans, J., et al. [1995,eng] 50-3246
- Snow and sea ice correlation to Chinese summer air temperatures. Fu, C.B., [1983,eng] 50-4099
- Snow cover. Colbeck, S.C., [1996,eng] 50-4615
- Snow identification from radar wind profiler spectra. Ralph, F.M., et al. [1996,eng] 50-5163
- Snow. Colbeck, S.C., [1996,eng] 50-4614
- Snowpack evidence of air pollution in Lapland and the Kola Peninsula. Lindroos, A.J., et al. [1995,eng] 50-4955
- Snowstorms. Cohen, J., [1996,eng] 50-4999
- Solar heating of the arctic mixed layer. Maykut, G.A., et al. [1995,eng] 50-2775
- Sounding of polar stratospheric ozone annual variations. Gruzdov, A.N., et al. [1995,eng] 50-4748
- Source of summer arctic atmospheric aerosols. Maenhaut, W., et al. [1996,eng] 50-4321
- Sources of biogenic sulfur in the high Arctic. Hopke, P.K., et al. [1995,eng] 50-589
- Sources of organic carbon aerosols in the arctic atmosphere. Kawamura, K., et al. [1996,eng] 50-5611
- Space-time distribution of temperature inversions in the arctic atmospheric boundary layer. Nagurnyi, A.P., [1995,eng] 50-2728
- Spatial and temporal distribution of storm precipitation in south-western British Columbia. Loukas, A., et al. [1996,eng] 50-2603
- Storm surges in Canadian waters. Murty, T.S., et al. [1995,eng] 50-1854
- Stratospheric constituent trends from ER-2 profile data. Schoeberl, M.R., et al. [1990,eng] 50-6005
- Stratospheric ozone layer above Spitsbergen in winter 1989. Neuber, R., et al. [1990,eng] 50-5975
- Stratospheric temperature variations in the north polar vortex. Zurek, R.W., et al. [1996,eng] 50-3070
- Stratospheric temperatures during AASE: results from STRA-TAN. Rood, R.B., et al. [1990,eng] 50-5979
- Stratospheric temperatures during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990,eng] 50-5977
- Sudden changes in arctic atmospheric aerosol concentrations during summer and autumn. Bigg, E.K., et al. [1996,eng] 50-4319
- Sulfate deposition over the Arctic Ocean. Smith, L., [1995,eng] 50-643
- Sulfide oxidation products in the antarctic atmosphere. Davison, B., et al. [1996,eng] 50-5615
- Sulfuric acid monohydrate: formation and heterogeneous chemistry in the stratosphere. Zhang, R.Y., et al. [1995,eng] 50-635
- Summer solstice solar radiation, the 100 kyr ice age cycle, and the next ice age. Ledley, T.S., [1995,eng] 50-1214
- Summer solstice solar radiation, the 100 kyr ice age cycle, and the next ice age. Ledley, T.S., [1995,eng] 50-1214
- Surface temperature from ERS-1 ATSR infrared thermal satellite data in polar regions. Stroeve, J., et al. [1996,eng] 50-6568
- Synoptic approach to forecasting lake-effect snowfall. Ellis, A.W., et al. [1996,eng] 50-6062
- Synoptic look at research on snow topics. Toupin, J., [1994,fre] 50-5026
- Taiga climate. Bonan, G.B., [1996,eng] 50-5000
- Temperature elevation effects on arctic soil insects. Coulson, S.J., et al. [1996,eng] 50-3529
- Temporal and spatial variations in hail in the upper Great Plains and Midwest. Changnon, S.A., Jr., [1984,eng] 50-4497
- Terrestrial component of the cryosphere. Melnikov, P.A., et al. [1993,eng] 50-5483
- Test of variant soil moisture conditions on the Canadian Global Forecast Model. Delage, Y., et al. [1995,eng] 50-1528
- The presence of metastable HNO₃/H₂O solid phases in the stratosphere inferred from ER 2 data. Tabazadeh, A., et al. [1996,eng] 50-5254
- Theoretical basis for passive microwave remote sensing of cirrus. Evans, K.F., et al. [1992,eng] 50-3565
- Tibetan alpine ecosystem response to climatic changes. Zhang, Y.Q., et al. [1996,eng] 50-5495
- Topographic controls on Norwegian Holocene glaciers fluctuations. Aa, A.R., [1996,eng] 50-4374
- Total ozone during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990,eng] 50-5974
- Transport of chemical species from the northern polar vortex. Norton, W.A., et al. [1995,eng] 50-5917
- Tree ring value determination of climatic change in Switzerland. Vogel, R.B., et al. [1996,ger] 50-6714
- Tropical alpine climates. Rundel, P.W., [1994,eng] 50-3045
- Tropospheric dehydration by subvisible cirrus clouds. Jensen, E.J., et al. [1996,eng] 50-5287
- Tundra climate. Weller, G., [1996,eng] 50-5001
- Two-year record of eolian sedimentation in the Wind River Range, Wyoming. U.S.A. Dahms, D.E., et al. [1996,eng] 50-5496
- Two-year simulation of the Great Lakes region with a coupled modeling system. Bates, G.T., et al. [1995,eng] 50-1566
- U.S. FROST: Data and Science Plan. Report from the U.S. Science FROST Workshop, 2 and 3 August 1993. Bromwich, D.H., ed. et al. [1993,eng] 50-3332
- United States arctic research plan: Biennial revision: 1996-2000. Meyers, C.E., et al. [1995,eng] 50-3243
- Unsuitability of meteoritic and other nuclei for polar stratospheric cloud freezing. Biermann, U.M., et al. [1996,eng] 50-6513
- Unusual PSCs observed by lidar in Antarctica. Stefanutti, L., et al. [1995,eng] 50-753
- Upper Atmosphere Research Satellite (UARS) Microwave Limb Sounder (MLS) experiment. Waters, J., et al. [1992,eng] 50-3561
- User capabilities of the Defense Meteorological Satellite Program. Scharfen, G.R., et al. [1994,eng] 50-4792
- Validation of climate model for snow cover variations. Douville, H., et al. [1995,eng] 50-2735
- Volcanic stratospheric loading derived from Greenland ice core measurements. Zielinski, G.A., [1995,eng] 50-1331
- Warm core in a polar low observed with a satellite microwave sounding unit. Forsythe, J.M., et al. [1996,eng] 50-4186
- Water vapor saturation at low altitudes around Mars aphelion: a key to Mars climate? Clancy, R.T., et al. [1996,eng] 50-5831
- Wind chill. Kalkstein, L.S., [1996,eng] 50-5002
- Winter 1994 weather and ice conditions for the Laurentian Great Lakes. Assel, R.A., et al. [1996,eng] 50-3294
- Winter methane dynamics in a temperate peatland. Melloh, R.A., et al. [1996,eng] 50-6052
- Winter storms over Canada. Stewart, R.E., et al. [1995,eng] 50-1852
- Winter surface energy budget in Denver, Colorado. Ruffieux, D., [1995,eng] 50-2152
- Witness the Arctic, vol.3, no.1. Arctic Research Consortium of the United States, [1996,eng] 50-3930
- Yearly cycle of lower tropospheric ozone at the Arctic Circle. Rummukainen, M., et al. [1996,eng] 50-5614
- Zonal asymmetries in simulation of arctic stratospheric ozone. Isaksen, I.S.A., et al. [1990,eng] 50-6026
- See [also]: Microclimatology; Paleoclimatology
- Clothing**
- Guide to polar diving. Jenkins, W.T., [1976,eng] 50-3837
- Heat transfer through permeable cold-weather clothing. Kind, R.J., et al. [1995,eng] 50-1139
- Thermophysiological characteristics of protective clothing for forestry workers. Meinander, H., et al. [1994,fin] 50-1093
- Water vapor transfer through a hydrophilic film at subzero temperatures. Oszcewski, R.J., [1996,eng] 50-4498
- Cloud cover**
- Aerosol-stratus cloud parameterization for middle and high latitudes. Olsson, P.Q., et al. [1996,eng] 50-5280
- Algorithm for radiometric image mapping of global snow cover. Hall, D.K., et al. [1995,eng] 50-1809
- Analysis of cloud parameters in the northern European basin. Garbuzov, A.V., et al. [1992,rus] 50-1274
- Antarctic cloud scattering depth using ground-based radiometry. Ricchiazzi, P., et al. [1995,eng] 50-1335
- Arctic process and climate studies with the TOVS satellite sounder. Francis, J.A., [1994,eng] 50-684
- Arktis 1993: report on the field phase with examples of measurements. Brümmer, B., ed. [1993,eng] 50-4945
- Assessment of global climate model simulations of arctic air temperatures. Tao, X., et al. [1996,eng] 50-5532
- Atmospheric absorption of solar radiation due to ice clouds. Gautier, C., [1995,eng] 50-957

Cloud dissipation

- Atmospheric deposition and pollutant exposure of eastern U.S. forests. Mohnen, V.A., [1992,eng] 50-4052
- Characteristics of Arctic Ocean climate based on COADS data, 1980-1993. Clark, M.P., et al., [1996,eng] 50-6545
- Classification of arctic cloud and sea ice features in multi-spectral satellite data. Key, J.R., [1994,eng] 50-4357
- Climatic changes in Northern Europe. Heino, R., et al., [1994,eng] 50-3183
- Cloud attenuation of ultraviolet radiation in alpine regions. Blumthaler, M., et al., [1996,eng] 50-3610
- Cloud condensation nuclei over the Arctic Ocean in early spring. Hegg, D.A., et al., [1995,eng] 50-348
- Cloud observations with a polarimetric 33 GHz and 95 GHz radar. Sekelsky, S.M., et al., [1996,eng] 50-4601
- Clouds and snowmelt on the North Slope of Alaska. Zhang, T., et al., [1996,eng] 50-5284
- Clouds in the Himalaya Mountains, March through May. Qian, Z.J., [1982,chi] 50-6611
- Convergence band clouds along the west coast of Hokkaido. Kobayashi, F., et al., [1993,eng] 50-6040
- Detection and monitoring of H₂O and CO₂ ice clouds on Mars. Bell, J.F., III, et al., [1996,eng] 50-5195
- Detection and prediction of hail with Meteosat data. Messmer, B., et al., [1995,ger] 50-2539
- Detection of polar stratospheric clouds with ERS-2/GOME data. Meerkötter, R., [1995,eng] 50-2150
- Downwelling radiation flux at continental surfaces. Garratt, J.R., et al., [1996,eng] 50-5018
- DTR and cloudcover in the Nordic countries: observed trends and estimates for the future. Kaas, E., et al., [1994,eng] 50-3027
- Effect of atmospheric circulation on the formation of clouds in Hornsund. Niedzwiedz, T., et al., [1989,pol] 50-2905
- Effect of particle nonsphericity on bidirectional reflectance of cirrus clouds. Mishchenko, M.I., et al., [1996,eng] 50-5278
- Estimating the vertical dimension of convective cloudiness over the polar ocean from AVHRR data. Manschke, A., [1992,eng] 50-220
- Föhn winds on Kaffiöyra (NW Spitsbergen). Kejna, M., [1989,pol] 50-2911
- High-latitude climate change with an atmospheric coupled sea ice model. Washington, W.M., et al., [1996,eng] 50-6055
- Ice cloud microphysics in a general circulation model, pt.2. Fowler, L.D., et al., [1996,eng] 50-5016
- Improved segmentation of sea ice in radiometric imagery. Simpson, J.J., et al., [1995,eng] 50-3494
- Infrared radiometry of optical thickness of clouds in the Arctic. Stamnes, K., et al., [1996,eng] 50-5283
- Infrasound signatures of a polar low in the Norwegian and Barents Sea on 23-27 March 1992. Ørbeek, J.B., et al., [1995,eng] 50-2026
- Land surface studies and atmospheric effects by satellite microwave radiometry. Aschbacher, J., [1990,eng] 50-6691
- Light scattering effects on cloud thickness photometry. Zege, E.P., et al., [1994,eng] 50-2710
- Low cloud icing climatological data. Takasugi, S., [1970,eng] 50-4405
- Meteorological research applications of mm-wave radar. Kropfli, R.A., et al., [1996,eng] 50-4600
- Microwave radiometry for monitoring the diverse cloudiness regimes on Earth: a review. Katsaros, K.B., [1992,eng] 50-227
- Model of cloudiness evolution in cirrus cloud masses. Khvorostianov, V.I., [1995,eng] 50-4749
- Modeling the summertime arctic cloudy boundary layer. Curry, J.A., et al., [1996,eng] 50-5275
- Noctilucent clouds and the thermal structure near the arctic mesopause in summer. Lübken, F.J., et al., [1996,eng] 50-5453
- Numerical simulation of arctic stratus cloud turbulence. Smith, W.S., et al., [1996,eng] 50-2773
- Observational and theoretical studies of solar radiation in arctic stratus clouds. Herman, G.F., et al., [1984,eng] 50-4913
- Overview of the Arctic Ocean Expedition of 1991 (IAOE-91). Leck, C., et al., [1996,eng] 50-4312
- Parameterization of cirrus optical depth and cloud fraction. Soden, B., [1995,eng] 50-960
- Parameterization of clouds and radiation in climate models. Roeckner, E., [1995,eng] 50-959
- Physical climatology of alpine tundra. Scout Mountain, British Columbia, Canada. Saunders, I.R., et al., [1996,eng] 50-4235
- Polar lows in the Labrador Sea—a case study. Moore, G.W.K., et al., [1996,eng] 50-3821
- Potential of using spaceborne millimeter wavelength radar for ice cloud studies. Matrosov, S.Y., et al., [1994,eng] 50-1113
- Proceedings. Atmospheric Radiation Measurement (ARM) Science Team Meeting, 5th, San Diego, CA, Mar. 19-23, 1995, [1996,eng] 50-5274
- Radar echoes from winter monsoon clouds in Hokkaido. Kobayashi, F., et al., [1992,eng] 50-6645
- Radiation conditions on the Greenland ice sheet. Konzelmann, T., [1994,eng] 50-69
- Radiative fluxes and their impact on the energy balance of the Greenland ice sheet. Konzelmann, T., et al., [1995,eng] 50-1871
- Radiative heating rates during the Airborne Arctic Stratospheric Expedition. Rosenfeld, J.E., et al., [1990,eng] 50-5981
- Radiative properties of finite inhomogeneous cirrus clouds: Monte Carlo simulations. Chylek, P., et al., [1995,eng] 50-1471

- Radiative properties of ice clouds. Mitchell, D.L., et al., [1996,eng] 50-5279
- Radiative transfer in atmosphere-sea ice-ocean system. Jin, Z., [1996,eng] 50-5276
- Radiometric detection of ice crystal growth in cirrus clouds. Ou, S.C., et al., [1996,eng] 50-5204
- Radiometry of cirrus cloud optical depths and ice crystal sizes. Ou, S.C., et al., [1995,eng] 50-3258
- Reflection of weather conditions in the chemistry of horizontal fog/cloud precipitation. Skvarenina, J., et al., [1991,eng] 50-3522
- Remote sensing for global change, climate change and atmosphere & ocean forecasting. European "International Space Year" Conference, Munich, Germany, 30 March-4 April 1992, [1992,eng] 50-219
- Role of spaceborne millimeter-wave radar in the global monitoring of ice cloud. Brown, P.R.A., et al., [1995,eng] 50-1247
- Satellite measurements of cloud microphysical properties. Poix, C., et al., [1996,eng] 50-4571
- Specular scattering and crystal dynamics in cirrus clouds. Lynch, D.K., et al., [1994,eng] 50-1115
- Thermal differentiation in slopes of a small periglacial valley (Bellsund, Spitsbergen). Lanczont, M., et al., [1989,pol] 50-2910
- Use of AVHRR-derived cloudiness and precipitation in weather forecasting. Karlsson, K.-G., [1992,eng] 50-228
- Water vapor saturation at low altitudes around Mars aphelion: a key to Mars climate? Clancy, R.T., et al., [1996,eng] 50-5831
- Cloud dissipation**
- 1-D model of the formation and evolution of polar stratospheric clouds. Panegrossi, G., et al., [1996,eng] 50-3812
- Adsorption model of polar stratospheric cloud physics. Henson, B.F., et al., [1996,eng] 50-5460
- Arctic ozone hole—a myth or a possibility. Singh, O.N., et al., [1995,eng] 50-4529
- Bursts of cloud condensation nuclei (CCN) by dissipating clouds at Palmer Station, Antarctica. Saxena, V.K., [1996,eng] 50-3602
- Chemical variations between polar stratospheric cloud phases. Ravishankara, A.R., et al., [1996,eng] 50-3443
- Detection of weakly precipitating winter clouds by a NOAA 404-MHz wind profiler. Orr, B.W., et al., [1996,eng] 50-5164
- Ice cloud microphysics in a general circulation model, pt.1. Fowler, L.D., et al., [1996,eng] 50-5015
- Impact of heterogeneous reactions on stratospheric chemistry of the Arctic. Douglass, A.R., et al., [1989,eng] 50-4708
- Kinetic measurements of the ClO + O₃ → ClOO + O₂ reaction. Stevens, P.S., et al., [1990,eng] 50-4727
- Lidar measurements of arctic polar ozone depletion. Wirth, M., et al., [1996,eng] 50-5286
- Model of arctic air pollution by sulfur aerosols. Dastoor, A.P., et al., [1996,eng] 50-5450
- Positive ion depletion in a noctilucent cloud. Balsiger, F., et al., [1996,eng] 50-3604
- Pressure dependence of the reaction between ClO and ClOO at 226K. Parr, A.D., et al., [1990,eng] 50-4733
- Reaction probabilities of ClONO₂ and N₂O₅ on polar stratospheric cloud materials. Hanson, D.R., et al., [1991,eng] 50-3649
- Relationship between atmospheric circulation and antarctic ozone depletion. Butchart, N., et al., [1996,eng] 50-3963
- Some characteristics of hail cloud formation processes in Xianning area. Wang, A.S., et al., [1983,eng] 50-4098
- Spectroscopy of antarctic stratospheric ozone variations, pt.2. Cheng, D.J., et al., [1996,eng] 50-4349
- Cloud droplets**
- Accretion of monodisperse droplets on a thin wire. Prodi, F., et al., [1996,eng] 50-5393
- Atmospheric deposition and pollutant exposure of eastern U.S. forests. Mohnen, V.A., [1992,eng] 50-4052
- Bistatic scattering of radiowaves by a melting layer of precipitation. Zhang, W., et al., [1996,eng] 50-6335
- Chemical and physical conversion in cold atmosphere and the effect of radiation. Kulmala, M., et al., [1994,eng] 50-3187
- Comparison between arctic and antarctic polar stratospheric clouds. Dye, J.E., et al., [1996,eng] 50-6542
- Effect of breakup of melting snowflakes on the resulting size distribution of raindrops. Fujiyoshi, Y., et al., [1996,eng] 50-6724
- Effect of particle nonsphericity on bidirectional reflectance of cirrus clouds. Mishchenko, M.I., et al., [1996,eng] 50-5278
- Freeze-thaw effects on photoproduction of hydrogen peroxide in cloud waters. Arakaki, T., et al., [1995,eng] 50-1969
- Growth of acidic polar stratospheric aerosols. Hamill, P., et al., [1996,eng] 50-4311
- Inflight icing: certification vs. reality. Steenblik, J.W., [1995,eng] 50-1962
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al., [1995,eng] 50-2954
- Mass loss of water drops falling in electric fields. Latham, J., [1965,eng] 50-3946
- Numerical forecasting of liquid water content to assess airframe icing risk. Lunnnon, R.W., [1991,eng] 50-3266
- On the global variation of precipitating layer clouds. Ryan, B.F., [1996,eng] 50-3293
- Oxidation of S(IV) during riming by cloud droplets. Iribarne, J.V., et al., [1995,eng] 50-1103

Cloud physics

- Physical characteristics of arctic stratus clouds. Tsay, S.C., et al., [1984,eng] 50-4922
- Production and depletion of supercooled liquid water in a Colorado winter storm. Politovich, M.K., et al., [1995,eng] 50-3560
- Proposed icing severity index based upon meteorology. Politovich, M.K., et al., [1991,eng] 50-3263
- Rain production in convective clouds, pt.2. Reisin, T., et al., [1996,eng] 50-6325
- Relative humidity influences on cirrus cloud ice crystal formation. Heymsfield, A.J., et al., [1995,eng] 50-3259
- Rotating multicyclinder for measuring cloud water content and droplet size. Jones, K.F., et al., [1996,eng] 50-4032
- Supercooled liquid water in Colorado Front Range winter storms. Rasmussen, R.M., et al., [1991,eng] 50-3264
- Three-dimensional modelling of ice accretion micro structure. Szilder, K., et al., [1996,eng] 50-5340
- Tips on avoiding low-level icing. Schuyler, N., [1986,eng] 50-4403
- Turbine engine icing spray bar design issues. Bartlett, C.S., [1995,eng] 50-1654
- Unusual types of single ice crystals originating from frozen cloud droplets. Magono, C., et al., [1979,eng] 50-5794
- Cloud electrification**
- Comment on paper by Avila et al. Jayaratne, R., et al., [1996,eng] 50-5454
- Dual polarization radar observations of thunderclouds in winter season. Sonoi, Y., et al., [1995,eng] 50-4258
- Effect of air bubbles in ice on charge transfer produced by asymmetric rubbing. Latham, J., [1965,eng] 50-3951
- Electric fields and charges near 0°C in stratiform clouds. Shepherd, T.R., et al., [1996,eng] 50-5821
- Electrical properties of ice. Gross, G.W., [1970,eng] 50-5754
- Electrification associated with the evaporation of ice. Latham, J., et al., [1965,eng] 50-3950
- Electrification mechanisms of snow crystals (Part I). Endoh, T., [1981,eng] 50-5790
- Electrification mechanisms of snow crystals (Part III). Endoh, T., [1981,eng] 50-5799
- Electrification of frost deposits. Vonnegut, B., [1965,eng] 50-3948
- Electrification of snowstorms. Latham, J., et al., [1964,eng] 50-3938
- Electrification of thunderstorm cells during cloud ice formation. Ramachandran, R., et al., [1996,eng] 50-3020
- Electrification produced by the growth of soft hail in thunderclouds. Latham, J., [1965,eng] 50-3945
- Experiments of the charging mechanism of ice particles by the ion-capture process. Asuma, Y., et al., [1983,eng] 50-5797
- Influence of temperature on microdischarges between ice particles. Coquillat, S., et al., [1996,eng] 50-5385
- Mass loss of water drops falling in electric fields. Latham, J., [1965,eng] 50-3946
- Radar observation of cloud electrification during thunderstorms. Jameson, A.R., et al., [1996,eng] 50-3965
- Radar observation of cloud ice crystal alignment to predict lightning. Krehbiel, P., et al., [1996,eng] 50-4599
- Radar observation of ice crystal orientation in thunderstorms. Caylor, J.J., et al., [1996,eng] 50-5684
- Radar study of the evolution of a lightning producing storm. Carey, L.D., et al., [1996,eng] 50-4598
- Role of electrified ice meltwater in thunderstorms. Kamra, A.K., et al., [1984,eng] 50-4923
- Role of ice geometry and impact velocity in thunderstorm electrification. Latham, J., et al., [1965,eng] 50-3949
- Temperature dependence of static charging in ice growing by riming. Avila, E.E., et al., [1995,eng] 50-3004
- Thunderstorm electrification analysis: the dependence on the temperature-LWC diagram. Scavuzzo, C.M., et al., [1996,eng] 50-3342
- Thunderstorm electrification. Saunders, C.P.R., [1995,eng] 50-4075
- Cloud physics**
- 1-D model of the formation and evolution of polar stratospheric clouds. Panegrossi, G., et al., [1996,eng] 50-3812
- Acid pollutants in air and precipitation/deposition at the Sudeten Mountains, Poland. Kmiec, G., et al., [1995,eng] 50-4954
- Adsorption and ionization of HCl on an ice surface. Banham, S.F., et al., [1996,eng] 50-5940
- Adsorption and photochemistry of dinitrogen tetroxide on low temperature ice layers. Rieley, H., et al., [1996,eng] 50-4295
- Adsorption model of polar stratospheric cloud physics. Henson, B.F., et al., [1996,eng] 50-5460
- Adsorption of methane on natural snow. Chai, L., et al., [1996,eng] 50-5963
- Aerosol uptake by model polar stratospheric cloud surfaces. Graham, J.D., et al., [1996,eng] 50-4144
- Aerosol-stratus cloud parameterization for middle and high latitudes. Olsson, P.Q., et al., [1996,eng] 50-5280
- Airborne Arctic Stratospheric Expedition: prologue. Turco, R.P., et al., [1990,eng] 50-5973
- Airborne hydrogen peroxide measurements in supercooled clouds. Snider, J.R., et al., [1995,eng] 50-2114
- Aircraft observations of ice formation over the Japan Sea. Asuma, Y., et al., [1995,eng] 50-6716
- Aircraft-generated aerosols and visible contrails. Kärcher, B., [1996,eng] 50-6544
- Analysis of cloud parameters in the northern European basin. Garbuzov, A.V., et al., [1992,rus] 50-1274

Cloud physics

Cloud physics

- Archive of digital data from the Defense Meteorological Satellite Program (DMSP). Kroehl, H.W., et al. [1994,eng] 50-5076
- Arctic and antarctic ozone depletion inferred from radiometric soundings. MacKenzie, I.A., et al. [1996,eng] 50-5768
- Arctic atmospheric aerosol number size distributions. Covert, D.S., et al. [1996,eng] 50-4315
- Arctic atmospheric particle measurements from forward scattering spectrometer. Dye, J.E., et al. [1990,eng] 50-5995
- Arctic ozone hole—a myth or a possibility. Singh, O.N., et al. [1995,eng] 50-4529
- Arctic stratospheric cloud and temperature variations, 1989. Hoffmann, D.J., [1990,eng] 50-5985
- Atmospheric absorption of solar radiation due to ice clouds. Gautier, C., [1995,eng] 50-957
- Automated aircraft icing forecast technique project report. Manaur, M.V., [1984,eng] 50-4619
- Background stratospheric aerosol and polar stratospheric cloud reference models. McCormick, M.P., et al. [1996,eng] 50-6712
- Backscattering radar measurements of spherical ice cloud crystals. Prodi, F., et al. [1996,eng] 50-4502
- Bursts of cloud condensation nuclei (CCN) by dissipating clouds at Palmer Station, Antarctica. Saxena, V.K., [1996,eng] 50-3602
- Calculations of ozone destruction during the 1988/89 arctic winter. McKenna, D.S., et al. [1990,eng] 50-6025
- Chemical variations between polar stratospheric cloud phases. Ravishankara, A.R., et al. [1996,eng] 50-3443
- Cirrus clouds. Heymsfield, A.J., [1996,eng] 50-4979
- Cirrus infrared parameters and shortwave reflectance relations from observations. Spinhirne, J.D., et al. [1995,eng] 50-5162
- Climatic implications of ice microphysics. Liou, K.N., [1995,eng] 50-958
- Cloud condensation nuclei over the Arctic Ocean in early spring. Hegg, D.A., et al. [1995,eng] 50-348
- Cloud ice mass content from satellite radiometry and aircraft data. Matrosov, S.Y., et al. [1996,eng] 50-5277
- Cloud observations with a polarimetric 33 GHz and 95 GHz radar. Sekelsky, S.M., et al. [1996,eng] 50-4601
- Cloud physics. Orville, H.D., [1996,eng] 50-4980
- Cloud structure derived from remote sensing measurements. Sassen, K., [1984,eng] 50-4921
- Clouds and snowmelt on the North Slope of Alaska. Zhang, T., et al. [1996,eng] 50-5284
- Comment on paper by Avila et al. Jayaratne, R., et al. [1996,eng] 50-5454
- Comments on "Production of ice particles in clouds due to aircraft penetrations". Mossop, S.C., et al. [1984,eng] 50-4917
- Comments on "The impact of the ice phase and radiation on a midlatitude squall system". Braun, S.A., et al. [1996,eng] 50-5476
- Comments on the Climax I and II experiments including replies to Raogno and Hobbs. Mielke, P.W., Jr., et al. [1995,eng] 50-640
- Comparison between arctic and antarctic polar stratospheric clouds. Dye, J.E., et al. [1996,eng] 50-6542
- Competition of precipitation particles in a model with parameterized cloud microphysics. Wacker, U., [1995,eng] 50-413
- Condensation nuclei production in the arctic polar vortex. Wilson, J.C., et al. [1990,eng] 50-5983
- Consistent treatment of the evaporation of rain and snow for use in large-scale models. Gregory, D., [1995,eng] 50-353
- Convergence band clouds along the west coast of Hokkaido. Kobayashi, F., et al. [1993,eng] 50-6040
- Denitrification of the polar winter stratosphere. Hamill, P., et al. [1990,eng] 50-6000
- Detection of possible aircraft icing in clouds by passive-active radars. Tarabukin, I.A., et al. [1992,eng] 50-3569
- Detection of weakly precipitating winter clouds by a NOAA 404-MHz wind profiler. Orr, B.W., et al. [1996,eng] 50-5164
- Determination of liquid water altitudes using combined remote sensors. Politovich, M.K., et al. [1995,eng] 50-1414
- Determining past atmospheric HCl mixing ratios from ice core analyses. Dominé, F., et al. [1995,eng] 50-1104
- Development of a regional climate model of the western Arctic. Lynch, A.H., et al. [1995,eng] 50-597
- Distributions of volcanic aerosols in antarctic polar stratospheric clouds. Adriani, A., et al. [1995,eng] 50-2848
- Dual multiparameter radar observations of intense convective storms. Brangi, V.N., et al. [1996,eng] 50-4597
- Dual polarization radar observations of thunderclouds in winter season. Sonoi, Y., et al. [1995,eng] 50-4258
- Dual wavelength radar observations of precipitation clouds. Iwanami, K., [1995,jpn] 50-607
- Dual-polarization airborne lidar observations of polar stratospheric cloud evolution. Poole, L.R., et al. [1990,eng] 50-5990
- Effect of air bubbles in ice on charge transfer produced by asymmetric rubbing. Latham, J., [1965,eng] 50-3951
- Effect of breakup of melting snowflakes on the resulting size distribution of raindrops. Fujiyoshi, Y., et al. [1996,eng] 50-6724
- Effect of particle nonsphericity on bidirectional reflectance of cirrus clouds. Mishchenko, M.I., et al. [1996,eng] 50-5278
- Electric fields and charges near 0°C in stratiform clouds. Shepherd, T.R., et al. [1996,eng] 50-5821
- Electrification associated with the evaporation of ice. Latham, J., et al. [1965,eng] 50-3950
- Electrification of frost deposits. Vonnegut, B., [1965,eng] 50-3948
- Electrification of thunderstorm cells during cloud ice formation. Ramachandran, R., et al. [1996,eng] 50-3020
- Electrification produced by the growth of soft hail in thunderclouds. Latham, J., [1965,eng] 50-3945
- Elliptical halos, Botlinger's rings, and the ice-plate snow-star transition. Tränkle, E., et al. [1996,eng] 50-6612
- Estimating the vertical dimension of convective cloudiness over the polar ocean from AVHRR data. Manschke, A., [1992,eng] 50-220
- Estimation of ice hydrometeor types and shapes from radar polarization measurements. Matrosov, S.Y., et al. [1995,eng] 50-3609
- Estimation of the effect of operational seeding on rain amounts in Israel. Nirel, R., et al. [1995,eng] 50-1218
- Evidence for midwinter chemical ozone destruction over Antarctica. Vömel, H., et al. [1995,eng] 50-754
- Evidence for the removal of gaseous HNO₃ inside the arctic polar vortex in January 1992. Höpfner, M., et al. [1996,eng] 50-3064
- Evidence of mechanism for polar stratospheric cloud dehydration. Gandrud, B.W., et al. [1990,eng] 50-6003
- Experimental closure of the heat and mass transfer theory of spheroidal hailstones. Greenan, B.J.W., et al. [1995,eng] 50-2117
- Explicit cloud physics parameterization for operational numerical weather prediction. Schultz, P., [1995,eng] 50-1529
- Feasibility of infrared sensing of Martian cloud and surface ices. Johnson, B.R., et al. [1996,eng] 50-3865
- Finger-shaped echoes of hailstorm and the possible mechanism of their formation. Ma, Z.H., et al. [1983,eng] 50-4096
- Formation of nitric acid hydrates—a chemical equilibrium approach. Smith, R.H., [1990,eng] 50-4728
- Formation of polar stratospheric clouds on preactivated background aerosols. Zhang, R.Y., et al. [1996,eng] 50-6510
- Freeze-thaw effects on photoproduction of hydrogen peroxide in cloud waters. Arakaki, T., et al. [1995,eng] 50-1969
- Ground-based remote sensing of cloud ice particle sizes. Matrosov, S.Y., et al. [1995,eng] 50-3257
- Growth of acidic polar stratospheric aerosols. Hamill, P., et al. [1996,eng] 50-4311
- Heat budget of a midlatitude squall line and implications for potential vorticity production. Braun, S.A., et al. [1996,eng] 50-5475
- Heterogeneous atmospheric bromine chemistry. Lary, D.J., et al. [1996,eng] 50-3019
- Heterogeneous chemistry of polar stratospheric clouds. Mather, J.H., et al. [1990,eng] 50-4726
- Heterogeneous conversion of COF₂ to HF in polar stratospheric clouds. Wofsy, S.C., et al. [1990,eng] 50-6004
- Heterogeneous interactions of aerosol radicals on simulated cloud ice surface. Cooper, P.L., et al. [1996,eng] 50-4142
- Heterogeneous interactions of aerosol radicals on simulated cloud ice surface. Cooper, P.L., et al. [1996,eng] 50-4142
- Heterogeneous interactions of stratospheric aerosols. Abbatt, J.P.D., [1996,eng] 50-6512
- HIPLEX-1: experimental design and response variables. Smith, P.L., et al. [1984,eng] 50-4918
- HIPLEX-1: statistical evaluation. Mielke, P.W., Jr., et al. [1984,eng] 50-4919
- How AgI aerosol dispersion may affect cloud seeding detection. Warburton, J.A., et al. [1995,eng] 50-347
- Hydrogen species partitioning in the arctic stratosphere. Schiller, C., et al. [1996,eng] 50-5766
- Ice cloud microphysics in a general circulation model, pt.1. Fowler, L.D., et al. [1996,eng] 50-5015
- Ice cloud microphysics in a general circulation model, pt.2. Fowler, L.D., et al. [1996,eng] 50-5016
- Ice cloud microphysics in a general circulation model, pt.3. Fowler, L.D., et al. [1996,eng] 50-5017
- Ice content retrieval from clouds using Doppler radar. Sauvageot, H., [1996,eng] 50-2772
- Ice crystal optical properties of cirrus clouds. Gayet, J.F., et al. [1996,eng] 50-3684
- Ice forming nuclei in the high Arctic. Bigg, E.K., [1996,eng] 50-4317
- Ice is where you find it. Steenblik, J.W., [1995,eng] 50-4705
- Ice plate absorption of infrared radiation. Popov, A.A., et al. [1994,eng] 50-1284
- Ice loss. Rice, D., [1996,eng] 50-5083
- Icing conditions encountered by a research aircraft. Sand, W.R., et al. [1984,eng] 50-4493
- Impact of heterogeneous reactions on stratospheric chemistry of the Arctic. Douglass, A.R., et al. [1989,eng] 50-4708
- Improved light scattering computations for hexagonal ice crystals. Xu, L., et al. [1996,eng] 50-3957
- Influence of temperature on microdischarges between ice particles. Coquillat, S., et al. [1996,eng] 50-5385
- Infrared measurement of arctic atmospheric chemical species. Wetzel, G., et al. [1995,eng] 50-2115
- Infrared radiometry of optical thickness of clouds in the Arctic. Starnes, K., et al. [1996,eng] 50-5283
- Interaction of arctic fogs with aerosols. Nilsson, E.D., et al. [1996,eng] 50-4318
- Interaction of peroxyacetic acid with solid H₂O ice. Li, Z.J., et al. [1996,eng] 50-4350
- Intercomparison of mesoscale forecasts of aircraft icing using SSM/I retrievals. Tremblay, A., et al. [1996,eng] 50-4524
- Ion-induced nucleation around radon daughters in remote arctic maritime air. Bigg, E.K., [1996,eng] 50-4322
- Ionisation and solvation of stratospherically relevant molecules on ice films. Banham, S.F., et al. [1995,eng] 50-5959
- Kinetics of ice nucleation initiated by molecular crystals. Iatimirska, V.K., et al. [1995,eng] 50-3815
- Laboratory simulation of polar stratospheric cloud formation. Iraci, L.T., et al. [1995,eng] 50-1333
- Large eddy simulation of the turbulent flow in a marine convective boundary layer with snow. Rao, G.S., et al. [1996,eng] 50-3683
- Lidar detection of the transition from snowflakes to rain. Sassen, K., et al. [1996,eng] 50-5282
- Lidar observations of polar stratospheric cloud growth. Poole, L.R., et al. [1988,eng] 50-4634
- Light scattering by absorbing hexagonal ice crystals in cirrus clouds. Zhang, J.Y., et al. [1995,eng] 50-984
- Light scattering by hexagonal ice prisms. 1. Small scattering angles. Petrusin, A.G., [1994,eng] 50-2709
- Light scattering effects on cloud thickness photometry. Zege, E.P., et al. [1994,eng] 50-2710
- Low brightness temperatures of Martian polar caps: CO₂ clouds or low surface emissivity? Forget, F., et al. [1995,eng] 50-2120
- Low cloud icing climatological data. Takasugi, S., [1970,eng] 50-4405
- Low ozone concentrations in mid-latitude ice clouds. Reichardt, J., et al. [1996,eng] 50-6543
- Low-temperature photochemistry of submicrometer nitric acid and ammonium nitrate layers. Koch, T.G., et al. [1996,eng] 50-6682
- Mass loss of water drops falling in electric fields. Latham, J., [1965,eng] 50-3946
- Measurements of powder snow avalanche—nature. Nishimura, K., et al. [1995,eng] 50-1058
- Mechanisms of direct and indirect climate forcing by aerosols in the arctic region. Blanchet, J.P., [1995,eng] 50-1642
- Meteorological research applications of mm-wave radar. Kropfli, R.A., et al. [1996,eng] 50-4600
- Microwave radiometry for monitoring the diverse cloudiness regimes on Earth: a review. Katsaros, K.B., [1992,eng] 50-227
- Mixed-phase cloud scheme based on a single prognostic equation. Tremblay, A., et al. [1996,eng] 50-6665
- Model of arctic air pollution by sulfur aerosols. Dastoor, A.P., et al. [1996,eng] 50-5450
- Model of cloudiness evolution in cirrus cloud masses. Khvorostianov, V.I., [1995,eng] 50-4749
- Model study of polar stratospheric clouds, pt.1. De Rudder, A., et al. [1996,eng] 50-6638
- Model study of polar stratospheric clouds, pt.2. Tie, X.X., et al. [1996,eng] 50-6639
- Model to retrieve precipitation rate profiles from airborne radar and radiometer measurements. Weinman, J.A., et al. [1992,eng] 50-3571
- Modeling of backscattering by non-spherical ice particles for the interpretation of cloud radar signals at 94 GHz. An error analysis. Okamoto, H., et al. [1995,eng] 50-3101
- Modeling the summertime arctic cloudy boundary layer. Curry, J.A., et al. [1996,eng] 50-5275
- Modeling winter storms over Arizona. Vol.2: microphysics model. Matthews, D.A., [1995,eng] 50-2799
- Modeling winter storms over Arizona. Vol.3: local-scale model. Medina, J.G., [1995,eng] 50-2800
- Modeling winter storms over Arizona. Final report—Volume I. Matthews, D.A., et al. [1995,eng] 50-2798
- Moisture profiling of the cloudy winter atmosphere using combined remote sensors. Stankov, B.B., et al. [1995,eng] 50-158
- Natural ice nucleus measurement under high supersaturation. Mizuno, H., et al. [1995,eng] 50-3719
- New ideas on aircraft icing forecast: first example and experiences. Fuchs, W., et al. [1995,eng] 50-203
- New look at the melting layer. Drummond, F.J., et al. [1996,eng] 50-4145
- Nitric acid in polar stratospheric clouds. Pueschel, R.F., et al. [1990,eng] 50-5997
- Noctilucent cloud observations over Greenland by a Rayleigh lidar. Thayer, J.P., et al. [1995,eng] 50-4542
- Noctilucent clouds and the thermal structure near the arctic mesopause in summer. Lübken, F.J., et al. [1996,eng] 50-5453
- North Polar stratospheric cloud dynamics. Rosen, J.M., et al. [1990,eng] 50-4723
- Numerical forecasting of liquid water content to assess airframe icing risk. Lunnorn, R.W., [1991,eng] 50-3266
- Numerical modeling of heterogeneous ozone depletion in polar stratospheric clouds. Smyshlyayev, S.P., [1994,eng] 50-2109
- Numerical simulation of arctic stratus cloud turbulence. Smith, W.S., et al. [1996,eng] 50-2773
- Observation of snowfall and airflow over a low mountain barrier. Nakai, S., et al. [1995,eng] 50-341
- Observational and theoretical studies of solar radiation in arctic stratus clouds. Herman, G.F., et al. [1984,eng] 50-4913
- Observational studies and numerical simulations of marine convective boundary layers. Rao, G.S., [1994,eng] 50-673
- Observed particle evolution in the polar stratospheric cloud of January 24, 1989. Dye, J.E., et al. [1990,eng] 50-5996
- On the embryo in graupel particles observed in Greenland. Harimaya, T., et al. [1992,eng] 50-6643

Cloud seeding

Clouds (meteorology)

- On the formation of electron depletions at the summer polar mesopause. Klostermeyer, J., [1996,eng] 50-3600
- On the global variation of precipitating layer clouds. Ryan, B.F., [1996,eng] 50-3293
- On the particle characteristics of PSCs inferred from polarimetric experiment. Maslowska, A., et al., [1994,eng] 50-1114
- On the polar stratospheric cloud formation potential of the northern stratosphere. Pawson, S., et al., [1995,eng] 50-2116
- On the scattering behaviour of bullet-rossette and bullet-shaped ice crystals. Strauss, B., [1996,eng] 50-6228
- On using historical comparisons in evaluating cloud seeding operations. Gabriel, K.R., et al., [1983,eng] 50-4492
- Optical backscatter characteristics of arctic polar stratospheric clouds. Kent, G.S., et al., [1990,eng] 50-5987
- Oxidation of S(IV) during riming by cloud droplets. Iribarne, J.V., et al., [1995,eng] 50-1103
- Ozone and aerosol correlated observations at Thule, Greenland, in the period 1991-1994. Di Sarra, A., et al., [1995,eng] 50-2849
- Parameterization of cirrus optical depth and cloud fraction. Soden, B., [1995,eng] 50-960
- Parameterization of cloud ice crystal conversion processes, pt.1. Harrington, J.Y., et al., [1995,eng] 50-3260
- Parameterization of clouds and radiation in climate models. Roeckner, E., [1995,eng] 50-959
- Phase function calculations of single hexagonal bullet-like ice crystals. Liu, C.L., et al., [1995,eng] 50-4345
- Phase transitions of water films adsorbed on pyrogenic silica. Bogdan, A., et al., [1996,eng] 50-2021
- Photochemistry of Triton's atmosphere and ionosphere. Krasnopolsky, V.A., et al., [1995,eng] 50-2121
- Photodissociation of condensed films of chlorine dioxide. Lanzendorf, E.J., et al., [1996,eng] 50-6679
- Physical characteristics of arctic stratus clouds. Tsay, S.C., et al., [1984,eng] 50-4922
- Physical interpretation of results from the HIPLEX-1 experiment. Cooper, W.A., et al., [1984,eng] 50-4920
- Polar stratospheric cloud event of January 24: part 2, photochemistry. Jones, R.L., et al., [1990,eng] 50-6022
- Polar stratospheric cloud event, 1989, pt.1. Poole, L.R., et al., [1990,eng] 50-6021
- Positive ion depletion in a noctilucent cloud. Balsiger, F., et al., [1996,eng] 50-3604
- Possible high ice particle production during graupel-graupel collisions. Takahashi, T., et al., [1995,eng] 50-3005
- Potential of using spaceborne millimeter wavelength radar for ice cloud studies. Matrosov, S.Y., et al., [1994,eng] 50-1113
- Precipitation sensitivity to cloud microphysical parameters. Liu, Y.Q., et al., [1996,eng] 50-4353
- Proceedings. Atmospheric Radiation Measurement (ARM) Science Team Meeting, 5th, San Diego, CA, Mar. 19-23, 1995, [1996,eng] 50-5274
- Production and depletion of supercooled liquid water in a Colorado winter storm. Politovich, M.K., et al., [1995,eng] 50-3560
- Program to improve aircraft icing forecasts. Sand, W.R., et al., [1991,eng] 50-3265
- Radar and radiation properties of ice clouds. Atlas, D., et al., [1995,eng] 50-1246
- Radar observation of cloud electrification during thunderstorms. Jameson, A.R., et al., [1996,eng] 50-3965
- Radar observation of cloud ice crystal alignment to predict lightning. Krehbiel, P., et al., [1996,eng] 50-4599
- Radar observation of ice crystal orientation in thunderstorms. Caylor, J.J., et al., [1996,eng] 50-5684
- Radar study of the evolution of a lightning producing storm. Carey, L.D., et al., [1996,eng] 50-4598
- Radiative effects of polar stratospheric clouds. Kinne, S., et al., [1990,eng] 50-5986
- Radiative properties of cirrus clouds derived from surface interferometric measurements. Beck, G.H., et al., [1996,eng] 50-6569
- Radiative properties of finite inhomogeneous cirrus clouds: Monte Carlo simulations. Chylek, P., et al., [1995,eng] 50-1471
- Radiative properties of ice clouds. Mitchell, D.L., et al., [1996,eng] 50-5279
- Radiometric observations of supercooled liquid water within a split front over Sierra Nevada. Heggli, M.F., et al., [1985,eng] 50-4972
- Radiometry of cirrus cloud optical depths and ice crystal sizes. Ou, S.C., et al., [1995,eng] 50-3258
- Radiosonde examination of synoptical scale wind/cloud dynamics. Mace, G.G., et al., [1995,eng] 50-3256
- Rain production in convective clouds, pt.2. Reisin, T., et al., [1996,eng] 50-6325
- Rapid glaciation of slightly supercooled cumulus clouds. Mason, B.J., [1996,eng] 50-5010
- Reaction probabilities of ClONO₂ and N₂O₅ on polar stratospheric cloud materials. Hanson, D.R., et al., [1991,eng] 50-3649
- Reactivity of ClONO₂ on H₂¹⁸O ice and organic liquids. Hanson, D.R., [1995,eng] 50-1416
- Reexamination of the formation of exhaust condensation trails by jet aircraft. Hanson, H.M., et al., [1995,eng] 50-1248
- Refractive index and density of vapor-deposited ice. Berland, B.S., et al., [1995,eng] 50-3096
- Relationship of tropospheric dry layers to freezing precipitation type. Smith, G., [1995,eng] 50-6684
- Relative humidity influences on cirrus cloud ice crystal formation. Heymsfield, A.J., et al., [1995,eng] 50-3259
- Remote sensing for global change, climate change and atmosphere & ocean forecasting. European "International Space Year" Conference, Munich, Germany, 30 March-4 April 1992, [1992,eng] 50-219
- Response of a research aircraft to icing and evaluation of severity indices. Politovich, M.K., [1996,eng] 50-4406
- Retrieval of cloud liquid water and precipitation from polarized microwave simulations. Bauer, P., et al., [1992,eng] 50-229
- Rime climate in Sodankylä. Sântu, K., et al., [1992,eng] 50-3630
- Rocket flight cloud seeding during hail suppression experiments. Lacaux, J.P., et al., [1995,eng] 50-4971
- Role of droplet composition in polar stratospheric cloud freezing. Meilinger, S.K., et al., [1995,eng] 50-4874
- Role of electrified ice meltwater in thunderstorms. Kamra, A.K., et al., [1984,eng] 50-4923
- Role of ice geometry and impact velocity in thunderstorm electrification. Latham, J., et al., [1965,eng] 50-3949
- Role of spaceborne millimeter-wave radar in the global monitoring of ice cloud. Brown, P.R.A., et al., [1995,eng] 50-1247
- SAGE II observations of polar stratospheric clouds near 50°N January 31-February 2, 1989. Pitts, M.C., et al., [1990,eng] 50-5994
- Saharan dust recorded in Swiss alpine snow cover. Schwikowski, M., et al., [1995,eng] 50-778
- SAM II and lidar aerosol profile comparisons during AASE. Osborn, M.T., et al., [1990,eng] 50-5993
- Satellite measurements of cloud microphysical properties. Poix, C., et al., [1996,eng] 50-4571
- Seasonal aerosol variability in the arctic marine boundary layer. Leck, C., et al., [1996,eng] 50-4320
- Seeding implications of ice crystal growth in the turbulent boundary layer. Levy, G., et al., [1984,eng] 50-4496
- Sensitivity of squall-line rear inflow to ice microphysics and environmental humidity. Yang, M.J., et al., [1995,eng] 50-1527
- Simulated effects of dichlorine hexoxide on stratospheric ozone depletion. Parthiban, S., et al., [1995,eng] 50-2019
- Simulation of rain production in convective clouds, pt.1. Reisin, T., et al., [1996,eng] 50-4369
- Solvation of hydrogen halides on the surface of ice. Robertson, S.H., et al., [1995,eng] 50-6069
- Some characteristics of hail cloud formation processes in Xiyang area. Wang, A.S., et al., [1983,eng] 50-4098
- Some research on the development of hail cloud. Wang, A.S., et al., [1983,eng] 50-4097
- Sounding of aerosol formation in the arctic stratosphere. Hofmann, D.J., et al., [1990,eng] 50-4725
- Sounding of arctic polar stratospheric clouds, 1990. Hofmann, D.J., et al., [1990,eng] 50-4731
- Sounding of nitric acid aerosol in the arctic stratosphere. Schlager, H., et al., [1990,eng] 50-4724
- Spaceborne observation of atmospheric precursors to polar stratospheric cloud formation. Geller, M.A., et al., [1995,eng] 50-4539
- Spaceborne radiometric determination of cloud structure. Pierdicca, N., et al., [1996,eng] 50-5683
- Spectra of polar mesospheric noctilucent cloud ice nuclei. Sugiyama, T., et al., [1996,eng] 50-4255
- Spectroscopy of freezing mechanisms of sulfuric acid aerosols. Bertram, A.K., et al., [1996,eng] 50-4143
- Specular scattering and crystal dynamics in cirrus clouds. Lynch, D.K., et al., [1994,eng] 50-1115
- Stratospheric temperatures during the 88-89 northern hemisphere winter. Newman, P.A., et al., [1990,eng] 50-5977
- Structure and evolution of winter cyclones in the central United States and their effects on the distribution of precipitation. Part II: arctic fronts. Wang, P.Y., et al., [1995,eng] 50-1565
- Studies of the polar middle and lower atmosphere by an MST radar on Svalbard. Rötger, J., et al., [1995,eng] 50-4262
- Sublimation of dry ice pellets used for cloud seeding. Kochtubajda, B., et al., [1985,eng] 50-4593
- Sudden changes in arctic atmospheric aerosol concentrations during summer and autumn. Bigg, E.K., et al., [1996,eng] 50-4319
- Sulfuric acid monohydrate: formation and heterogeneous chemistry in the stratosphere. Zhang, R.Y., et al., [1995,eng] 50-635
- Supercell simulations with simple ice parameterization. Taraglione, N., et al., [1996,eng] 50-3709
- Supercooled liquid water in Colorado Front Range winter storms. Rasmussen, R.M., et al., [1991,eng] 50-3264
- Technique for nowcasting hourly snowfall. Chappell, C.F., et al., [1991,eng] 50-3262
- Temperature dependence of static charging in ice growing by riming. Avila, E.E., et al., [1995,eng] 50-3004
- Tests for persistent effects of cloud seeding in a recent Australian experiment. Bigg, E.K., [1995,eng] 50-1249
- The presence of metastable HNO₃/H₂O solid phases in the stratosphere inferred from ER 2 data. Tabazadeh, A., et al., [1996,eng] 50-5254
- Theoretical aspects of modeling backscattering by cirrus ice particles at millimeter wavelengths. Schneider, T.L., et al., [1995,eng] 50-3261
- Theoretical basis for passive microwave remote sensing of cirrus. Evans, K.F., et al., [1992,eng] 50-3565
- Theory of atmospheric ice crystal growth and sublimation. Nelson, J.T., et al., [1996,eng] 50-4351
- Thunderstorm electrification analysis: the dependence on the temperature-LWC diagram. Scavuzzo, C.M., et al., [1996,eng] 50-3342
- Thunderstorm electrification. Saunders, C.P.R., [1995,eng] 50-4075
- Time-dependent wave-packet studies on the sticking of HCl to an ice surface. Wang, L.C., et al., [1996,eng] 50-4767
- Tips on avoiding low-level icing. Schuyler, N., [1986,eng] 50-4403
- Total hydrogen budget in the arctic winter stratosphere. Engel, A., et al., [1996,eng] 50-5767
- Tropospheric dehydration by subvisible cirrus clouds. Jensen, E.J., et al., [1996,eng] 50-5287
- Turbine engine icing spray bar design issues. Bartlett, C.S., [1995,eng] 50-1654
- Ultrafine aerosol presence in the arctic atmospheric boundary layer. Wiedensohler, A., et al., [1996,eng] 50-4316
- Unusual PSCs observed by lidar in Antarctica. Stefanutti, L., et al., [1995,eng] 50-753
- Uptake of chlorine dioxide by model PSCs under stratospheric conditions. Brown, L.A., et al., [1996,eng] 50-4164
- Uptake of HBr on ice at polar atmospheric conditions. Chu, L.T., et al., [1995,eng] 50-3090
- Wintertime precipitation enhancement in the Great Dividing Range of Australia. Carter, E.J., [1994,eng] 50-686
- Zonal asymmetries in simulation of arctic stratospheric ozone. Isaksen, I.S.A., et al., [1990,eng] 50-6026
- Cloud seeding**
- Cloud structure derived from remote sensing measurements. Sassen, K., [1984,eng] 50-4921
- Comments on the Climax I and II experiments including replies to Rangno and Hobbs. Mielke, P.W., Jr., et al., [1995,eng] 50-640
- Estimation of the effect of operational seeding on rain amounts in Israel. Nirel, R., et al., [1995,eng] 50-1218
- Evaluation of the Bridger Range winter cloud seeding experiment using control gages. Super, A.B., et al., [1983,eng] 50-4637
- Hail prevention in southwestern France. Dessens, J., [1986,eng] 50-4912
- HIPLEX-1: experimental design and response variables. Smith, P.L., et al., [1984,eng] 50-4918
- HIPLEX-1: statistical evaluation. Mielke, P.W., Jr., et al., [1984,eng] 50-4919
- How Agl aerosol dispersion may effect cloud seeding detection. Warburton, J.A., et al., [1995,eng] 50-347
- Modeling winter storms over Arizona, Vol.2: microphysics model. Mathews, D.A., [1995,eng] 50-2799
- Modeling winter storms over Arizona, Vol.3: local-scale model. Medina, J.G., [1995,eng] 50-2800
- Modeling winter storms over Arizona. Final report—Volume I. Mathews, D.A., et al., [1995,eng] 50-2798
- On using historical comparisons in evaluating cloud seeding operations. Gabriel, K.R., et al., [1983,eng] 50-4492
- Physical interpretation of results from the HIPLEX-1 experiment. Cooper, W.A., et al., [1984,eng] 50-4920
- Radiometric observations of supercooled liquid water within a split front over Sierra Nevada. Heggli, M.F., et al., [1985,eng] 50-4972
- Rocket flight cloud seeding during hail suppression experiments. Lacaux, J.P., et al., [1995,eng] 50-4971
- Seeding implications of ice crystal growth in the turbulent boundary layer. Levy, G., et al., [1984,eng] 50-4496
- Sublimation of dry ice pellets used for cloud seeding. Kochtubajda, B., et al., [1985,eng] 50-4593
- Tests for persistent effects of cloud seeding in a recent Australian experiment. Bigg, E.K., [1995,eng] 50-1249
- Wintertime precipitation enhancement in the Great Dividing Range of Australia. Carter, E.J., [1994,eng] 50-686
- See [also]: Artificial precipitation; Cloud dissipation; Fog dispersal; Hail prevention; Weather modification
- Cloud seeding generators**
- See [also]: Smoke generators
- Clouds (meteorology)**
- Albedo on snow surface in Patriot Hills, Antarctica. Shinohara, M., et al., [1995,eng] 50-4384
- Analysis of cloud parameters in the northern European basin. Garbuzov, A.V., et al., [1992,ru] 50-1274
- Antarctic atmospheric moisture values obtained from microwave radiometers. Wada, M., et al., [1992,eng] 50-3568
- Antarctic cloud scattering depth using ground-based radiometry. Ricchiuzzi, P., et al., [1995,eng] 50-1335
- Behavior of tropospheric and stratospheric ozone in The Arctic and Antarctica. Taalas, P., [1993,eng] 50-4769
- Cirrus clouds. Heymsfield, A.J., [1996,eng] 50-4979
- Climate of the Qinghai-Xizang Plateau. Dai, J.X., ed., [1990,chi] 50-2173
- Cloud structure derived from remote sensing measurements. Sassen, K., [1984,eng] 50-4921
- Dual polarization radar observations of thunderclouds in winter season. Sonoi, Y., et al., [1995,eng] 50-4258
- Dual wavelength radar observations of precipitation clouds. Iwanami, K., [1995,jpn] 50-607
- Effect of atmospheric circulation on the formation of clouds in Hornsund. Niedzwiedz, T., et al., [1989,pol] 50-2905
- Electric fields and charges near 0°C in stratiform clouds. Shepherd, T.R., et al., [1996,eng] 50-5821
- HCl on stratospheric ice. Gertner, B.J., et al., [1996,eng] 50-4859
- Heterogeneous atmospheric bromine chemistry. Lary, D.J., et al., [1996,eng] 50-3019
- Heterogeneous processes: laboratory, field, and modeling studies. Poole, L.R., et al., [1991,eng] 50-2784

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- Ice content retrieval from clouds using Doppler radar. Sauvageot, H., [1996.eng] 50-2772
- Ice crystal optical properties of cirrus clouds. Gayet, J.F., et al. [1996.eng] 50-3684
- Impact of stratospheric flight on ozone and water vapor. Rind, D., et al. [1995.eng] 50-627
- Improved light scattering computations for hexagonal ice crystals. Xu, L., et al. [1996.eng] 50-3957
- Low ozone concentrations in mid-latitude ice clouds. Reichardt, J., et al. [1996.eng] 50-6543
- Model of cloudiness evolution in cirrus cloud masses. Khvorostianov, V.I., [1995.eng] 50-4749
- Modeling of backscattering by non-spherical ice particles for the interpretation of cloud radar signals at 94 GHz. An error analysis. Okamoto, H., et al. [1995.eng] 50-3101
- Natural ice nucleus measurement under high supersaturation. Mizuno, H., et al. [1995.eng] 50-3719
- Numerical simulation of arctic stratus cloud turbulence. Smith, W.S., et al. [1996.eng] 50-2773
- Observational and theoretical studies of solar radiation in arctic stratus clouds. Herman, G.F., et al. [1984.eng] 50-4913
- On the global variation of precipitating layer clouds. Ryan, B.F., [1996.eng] 50-3293
- Ozone abundance, cloud effects, and spectral irradiance. Stanness, K.H., et al. [1991.eng] 50-1417
- Ozone and NO₂ observations within the antarctic polar vortex. Gil, M., et al. [1990.spa] 50-5526
- Ozone in northern Europe and in Antarctica, 1987-1990. Taalas, P., [1992.eng] 50-5272
- Physical characteristics of arctic stratus clouds. Tsay, S.C., et al. [1984.eng] 50-4922
- Polar stratospheric clouds observed by lidar at McMurdo Station during the 1993 winter. Adriani, A., et al. [1994.eng] 50-4239
- Precipitation sensitivity to cloud microphysical parameters. Liu, Y.Q., et al. [1996.eng] 50-4353
- Radar echoes from winter monsoon clouds in Hokkaido. Kobayashi, F., et al. [1992.eng] 50-6645
- Radiative forcing of climate. Ramaswamy, V., et al. [1991.eng] 50-2786
- Radiative properties of cirrus clouds derived from surface interferometric measurements. Beck, G.H., et al. [1996.eng] 50-6569
- Radiometric detection of ice crystal growth in cirrus clouds. Ou, S.C., et al. [1996.eng] 50-5204
- Radioonde examination of synoptical scale wind/cloud dynamics. Mace, G.G., et al. [1995.eng] 50-3256
- Rain production in convective clouds, pt.2. Reisin, T., et al. [1996.eng] 50-6325
- Recent climate variability in the vicinity of the Antarctic Peninsula. King, J.C., [1994.eng] 50-2994
- Record low ozone at McMurdo Station in spring of 1993. Johnson, B.J., et al. [1994.eng] 50-4238
- Remote-sensing data used in a polar atmosphere and cryosphere study. Hirasawa, N., et al. [1995.jpn] 50-1695
- Spaceborne radiometric determination of cloud structure. Pierdicca, N., et al. [1996.eng] 50-5683
- Study of snowflakes in antarctic clouds. Lachlan-Cope, T., [1996.eng] 50-4572
- Tropospheric dehydration by subvisible cirrus clouds. Jensen, E.J., et al. [1996.eng] 50-5287
- Ultraviolet and visible solar irradiance at the Weddell-Scotia Confluence, spring 1993. Sikorski, R.J., et al. [1994.eng] 50-4244
- Ultraviolet radiation in the southern seas in early spring 1993. Wendler, G., et al. [1994.eng] 50-4241
- See [also]: Hail clouds; Supercooled clouds
- Coagulation**
- Competition of precipitation particles in a model with parameterized cloud microphysics. Wacker, U., [1995.eng] 50-413
- Coal**
- Coal mine spoil instability in discontinuous permafrost. Hardy, A.J., et al. [1996.eng] 50-6166
- Effect of perennial rock freezing on the water saturation of coal basins. Elisafenko, T.N., [1985.rus] 50-249
- Freeze-thaw dewatering and structural enhancement of fine coal tails. Stahl, R.P., et al. [1995.eng] 50-357
- Geology and mining in Svalbard. Cipitelli, G., [1994.ita] 50-2820
- Impact fracturing of frozen ground and rocks. Fedulov, A.I., et al. [1996.eng] 50-4740
- Method for underground gasification of coal. Shtele, V.I., [1992.rus] 50-1943
- Permafrost in the coal mining area of the Greater Khingan Range. Guo, D.X., et al. [1989.chi] 50-1341
- Principal mineral resources and their distribution on the Qinghai-Xizang Plateau. Xu, Z.Y., et al. [1991.chi] 50-2295
- Subpermafrost groundwater in Chukotka. Ruzanov, V.T., et al. [1996.rus] 50-6367
- TEM and SEM studies of organic forms in anthraxolite coal from Krakken (Spitsbergen). Czerny, J., et al. [1993.eng] 50-2198
- Coal dusting**
- See [also]: Dusting
- Coalescence**
- Aerosol-stratus cloud parameterization for middle and high latitudes. Olsson, P.Q., et al. [1996.eng] 50-5280
- Characteristics of the aggregation of needle snow crystals. Kajikawa, M., [1995.jpn] 50-3509
- Convective heat transfer of rotating ice spheroids: rough hailstones. Zheng, G.G., et al. [1996.eng] 50-6471
- Corn snow—today's skiing, tomorrow's meltwater. Colbeck, S.C., [1996.eng] 50-4758
- Experimental formula of falling velocity of snow crystals. Kajikawa, M., [1975.eng] 50-3883
- Measurement of falling velocity of rimed snowflakes. Ishizaka, M., [1995.jpn] 50-1171
- On snow crystals with small raindrops observed in Greenland. Harimaya, T., et al. [1993.eng] 50-6039
- On the embryo in graupel particles observed in Greenland. Harimaya, T., et al. [1992.eng] 50-6643
- Simulation of rain production in convective clouds, pt.1. Reisin, T., et al. [1996.eng] 50-4369
- Coastal topographic features**
- Arctic coastal plain shorelines. Hill, P.R., et al. [1994.eng] 50-492
- Braided outwash fans in the Gulf of Alaska. Boothroyd, J.C., et al. [1975.eng] 50-4814
- Contribution to the geomorphological problem of strandflats. Tietze, W., [1962.ger] 50-5743
- Early Holocene moraine bank sedimentology of East Greenland. Huddart, D., et al. [1990.eng] 50-929
- Ecology of fjords and coastal waters. Skjoldal, H.R., ed. et al. [1995.eng] 50-4128
- Effect of local wind on the dynamics of a Norwegian fjord. Leth, O.K., [1995.eng] 50-4135
- Evolution and age of shorelines along Woodford, northern Spitsbergen. Brückner, H., et al. [1994.eng] 50-1582
- Late Pleistocene sea level fluctuations and marine terraces. Radtke, U., [1990.ger] 50-1795
- Local circulation in a fjord and exchange of water with the adjacent ocean. Asplin, L., [1995.eng] 50-4134
- Paraglacial coasts. Forbes, D.L., et al. [1994.eng] 50-493
- Physical oceanography of fjord-coast systems in Norway. Svendsen, H., [1995.eng] 50-4132
- Precambrian glacial marine sedimentation in East Greenland. Moncrieff, A.C.M., et al. [1990.eng] 50-935
- Topographic influence on the flow field off Lofoten-Vesterfjorden. Orvik, K.A., et al. [1995.eng] 50-4133
- See [also]: Shoreline modification
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- See [also]: Banks (waterways); Beaches; Shores
- Coatings**
- Adverse telluric effects on northern pipelines. Seager, W.H., [1991.eng] 50-1761
- Relationship of telluric currents to the corrosion of warm arctic pipelines. Sackinger, W.M., [1991.eng] 50-1725
- See [also]: Protective coatings
- Codes**
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- Cohesion**
- Aerosol uptake by model polar stratospheric cloud surfaces. Graham, J.D., et al. [1996.eng] 50-4144
- Investigation of sea ice shear properties. Zanegin, V.G., et al. [1990.eng] 50-101
- Cold brittleness**
- See [also]: Brittleness
- Cold chambers**
- Frost heave—testing facilities. Kettle, R.J., [1977.eng] 50-2315
- Ion flux through a shallow snowpack: effects of initial conditions and melt sequences. Davis, R.E., et al. [1995.eng] 50-2405
- Possible high ice particle production during graupel-graupel collisions. Takahashi, T., et al. [1995.eng] 50-3005
- Preliminary assessment of design and performance of frost susceptibility testing facilities. Dudek, S., [1977.eng] 50-2313
- Sources of variability in a constant boundary temperature frost heave test. Lomas, K.J., [1981.eng] 50-2143
- Testing facilities—self refrigerating units. Frost cabinet temperature distribution. Hill, J., [1977.eng] 50-2314
- Unusual types of single ice crystals originating from frozen cloud droplets. Magono, C., et al. [1979.eng] 50-5794
- Cold deserts**
- See [also]: Deserts
- Cold exposure**
- Danger by the numbers—meaningful cold weather indicators. Shacham, M., et al. [1995.eng] 50-1646
- Possible increased toxicity of automobile emissions in cold climates. Perkins, R.A., [1996.eng] 50-6137
- See [also]: Frostbite
- Cold storage**
- Cold storage of agricultural products in artificial permafrost. Tsuchiya, F., et al. [1992.eng] 50-40
- Effect of freezing of water samples on viable counts of environmental mycobacteria. Iivanainen, E., et al. [1995.eng] 50-1953
- Freeze preparation of plant tissue for electron microscopy. Adler, K., et al. [1996.eng] 50-5485
- Frozen soil barrier technology. Oak Ridge National Laboratory. Hazardous Waste Remedial Actions Program (HAZWARP). [1995.eng] 50-2793
- Germination properties of herb perennials on Mt. Fuji. Nishitani, S., et al. [1996.eng] 50-4343
- Hydraulic fill ash storage design for the permafrost zone. Koritova, I.V., et al. [1995.eng] 50-1838
- Numerical models of heat transfer during food freezing. Tocci, A.M., et al. [1995.eng] 50-596
- Snow behaviour under compaction for the production of ice. Gaméda, S., et al. [1996.eng] 50-4047
- Survival and regeneration of dormant silver birch buds stored at super-low temperatures. Ryynänen, L., [1996.eng] 50-6745
- Transport of natural gas as frozen hydrate. Gudmundsson, J.S., et al. [1995.eng] 50-170
- Cold stress**
- Carotenoid composition and down regulation in three conifers. Adams, W.W., III, et al. [1995.eng] 50-1137
- Chlorophyll fluorescence as measure of Douglas fir cold hardiness. Fisker, S.E., et al. [1995.eng] 50-1287
- Chlorophyll fluorescence as spruce frost hardiness indicator. Binder, W.D., et al. [1996.eng] 50-6519
- Desiccation of white spruce seedlings planted in the southern boreal forest of British Columbia. Krasowski, M.J., et al. [1995.eng] 50-766
- Effects of dehydration and freezing stress on brown algae. Pearson, G.A., et al. [1995.eng] 50-1523
- Freezing characteristics of rigid plant tissues. Rajashekar, C.B., et al. [1996.eng] 50-6554
- Low-temperature and freeze-thaw durability of thick composites. Dutta, P.K., et al. [1996.eng] 50-5659
- Microscopy of xylem ray supercooling wood tissues response to freezing stress. Ristic, Z., et al. [1995.eng] 50-3341
- Modelling the controls on boreal tree species range limits. Sykes, M.T., et al. [1995.eng] 50-770
- Potential climatic change effects on western Canadian forests. Burton, P.J., et al. [1995.eng] 50-769
- Seasonal changes in photosystem II organisation and pigment composition in *Pinus sylvestris*. Ottander, C., et al. [1995.eng] 50-1130
- Thermal stress measurements in asphalt concrete. Janoo, V.C., et al. [1993.eng] 50-760
- Cold tolerance**
- Anatomy of tropical alpine plants. Carlquist, S., [1994.eng] 50-3049
- Biological ice nucleation and its applications. Lee, R.E., Jr., ed. et al. [1995.eng] 50-3270
- Biology of high latitude kelp. Dunton, K.H., et al. [1995.eng] 50-4139
- Chlorophyll fluorescence as spruce frost hardiness indicator. Binder, W.D., et al. [1996.eng] 50-6519
- Cold acclimation of *Arabidopsis thaliana*. Uemura, M., et al. [1995.eng] 50-1462
- Cold acclimation of rye leaves during freeze/thaw cycles. Uemura, M., et al. [1995.eng] 50-3343
- Cold acclimatization biochemistry of rapeseed tissues. Smoleńska-Sym, G., et al. [1996.eng] 50-5463
- Cold resistance mechanisms in high desert Andean plants. Squeo, F.A., et al. [1996.eng] 50-5774
- Cold tolerance in tropical alpine plants. Beck, E., [1994.eng] 50-3048
- Control of epiphytic ice nucleation-active bacteria for management of plant frost injury. Lindow, S.E., [1995.eng] 50-3283
- Copepod adaptability to temperature and salinity in a salt lake. Wang, Z.P., et al. [1989.chi] 50-6777
- Deep supercooling in buds of woody plants. Quamme, H.A., [1995.eng] 50-3280
- Deep supercooling in woody plants and the role of cell wall structure. Wisniewski, M., [1995.eng] 50-3279
- Desiccation of white spruce seedlings planted in the southern boreal forest of British Columbia. Krasowski, M.J., et al. [1995.eng] 50-766
- Early biochemical changes during acclimation of poplar to low temperature. Jouve, L., et al. [1995.eng] 50-3453
- Ecology and decline of red spruce in the eastern United States. Eagar, C., ed. et al. [1992.eng] 50-4049
- Effects of dehydration and freezing stress on brown algae. Pearson, G.A., et al. [1995.eng] 50-1523
- Effects of plant cellular tissue structure on freezing tolerance. Fujikawa, S., et al. [1996.eng] 50-5675
- Environmental biology of a tropical treeline species, *Polyplexis sericea*. Goldstein, G., et al. [1994.eng] 50-3050
- Fluorimetric assessment of bacteria after freeze-thawing. Puchkov, E.O., et al. [1995.eng] 50-5865
- Freezing resistance in the stem pith of cabbage. Manley, R.C., [1994.eng] 50-674
- Freezing tolerance in plants: an overview. Chen, T.H.H., et al. [1995.eng] 50-3277
- Frost hardiness of 16 European provenances of sessile oak growing in Scotland. Deans, J.D., et al. [1996.eng] 50-4329
- Frost resistance of artificially deacclimated pine needles. Taulavuori, K., et al. [1996.eng] 50-4151
- Frost resistance, photosynthesis and respiration in cells and chloroplasts under cold hardening. Klimov, S.V., et al. [1994.rus] 50-4201
- Functional significance of inflorescence pubescence in tropical alpine species of *Puya*. Miller, G.A., [1994.eng] 50-3053
- Insects and freezing. Block, W., [1995.eng] 50-4087
- Low summer temperatures: a potential mortality factor for high arctic soil microarthropods? Coulson, S.J., et al. [1995.eng] 50-1178
- Meaningful wind chill indicators derived from heat transfer principles. Brauner, N., et al. [1995.eng] 50-1552
- Microbial life in permafrost: a historical review. Gilichinski, D.A., et al. [1996.eng] 50-6701
- Micrometeorological effects on alpine vegetation reproduction. Bergman, P., et al. [1996.eng] 50-5494
- Overview of the reproductive biology of *Espeletia* (Asteraceae) in the Venezuelan Andes. Berry, P.E., et al. [1994.eng] 50-3056
- Perspectives of plant cold tolerance: physiology and molecular responses. Kaye, C., et al. [1995.eng] 50-4085
- Population biology of Mount Kenya lobelias. Young, T.P., [1994.eng] 50-3057

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- Possible increased toxicity of automobile emissions in cold climates. Perkins, R.A., et al. [1996.eng] 50-6137
- Relationship between water content and frost tolerance in shoots of hardwood seedlings. Calmé, S., et al. [1996.eng] 50-3296
- Roles of ice nucleators in cold tolerant invertebrates. Duman, J.G., et al. [1995.eng] 50-3281
- Seasonal variations in frost tolerance and sugar content of two *Plagiomnium* species. Rüden, D., et al. [1993.eng] 50-6524
- Second-order dynamic model for the frost hardness of trees. Leinonen, I., et al. [1995.eng] 50-1146
- Selection of cold-tolerant plants for growth in soils contaminated with organics. Rogers, H.B., et al. [1995.eng] 50-4609
- Statistical analysis of freezing tolerance indices from plant electrolyte variations. Amis, T., et al. [1995.eng] 50-3612
- Supercooling and ice nucleation in vertebrate ectotherms. Costanzo, J.P., et al. [1995.eng] 50-3282
- Synthesis and conclusions from studies of red spruce decline. Johnson, A.H., et al. [1992.eng] 50-4059
- Thermodynamic evaluation of the cold resistance of steel elements. Shafrai, S.D., et al. [1995.rus] 50-721
- Trends in the development of radiation-protective polymer composite materials. Pavlenko, V.I., et al. [1995.rus] 50-3440
- Tropical alpine ecology: progress and priorities. Rundel, P.W., et al. [1994.eng] 50-3061
- Tropical alpine environments—plant form and function. Rundel, P.W., ed. et al. [1994.eng] 50-3043
- Willow leaf wax variations in relation to cold survival. Hietala, T., et al. [1995.eng] 50-1649
- Winter injury and developmental cold tolerance of red spruce. DeHayes, D.H., [1992.eng] 50-4057

See [also]: Acclimatization; Viability

Cold weather concreting

See [also]: Winter concreting

Cold weather construction

- 1971 performance survey of DEW Line ice cap stations DYE-2 and DYE-3. Flax, D., et al. [1971.eng] 50-5756
- Alternative road construction for stormwater management in cold climates. Stenmark, C., [1995.eng] 50-2532
- Analytical methods to study road construction encroachment on the environment. Ivehammur, P., [1996.swe] 50-6686
- Antarctic commute: CRREL searches for safe land route to South Pole. Chalmers, P., [1996.eng] 50-3239
- Applicability of Soviet arctic mining technology to northern America. Skudrzyk, F.J., [1991.eng] 50-1743
- Ardalin field flows despite weather, terrain. Britton, M.W., et al. [1995.eng] 50-4396
- Assessing frost damage in compacted clay liners. Benson, C.H., et al. [1995.eng] 50-1133
- Bare poles: building design for high latitudes. Strub, H., [1996.eng] 50-4963
- Biological rehabilitation of disturbed lands in the arctic gas-producing regions. Masalkin, S.D., [1991.eng] 50-1767
- Buildings with short piles and ventilated foundations in permafrost. Zhu, L.N., et al. [1995.chi] 50-5625
- Case history of a lined wastewater treatment lagoon failure. Merrill, K.S., et al. [1996.eng] 50-6150
- Cold region hydraulic oil applications. Uhrik, S.L., [1991.eng] 50-1758
- Cold regions engineering research—a strategic plan. Carlson, R.F., ed. et al. [1988.eng] 50-6209
- Cold regions infrastructure: an international imperative for the 21st century. International Conference on Cold Regions Engineering, 8th, Fairbanks, AK, Aug. 12-16, 1996, [1996.eng] 50-6106
- Compacted snow road. 1. Properties of snow. Eriksson, R., [1995.eng] 50-3853
- Conception for the rehabilitation of transportation infrastructures in northern regions. Ladanyi, B., [1994.fre] 50-4946
- Construction of non-class bridges and sea moorings under the conditions of the European North. Okin, E.I., et al. [1995.rus] 50-3081
- Construction of the Okhotsk frozen-sea observation tower. Sato, Y., et al. [1996.jpn] 50-5873
- Contributions to antarctic research IV. Elliot, D.H., ed. et al. [1995.eng] 50-1190
- Corrosion in Anchorage homes and buildings. Hicks, R.J., [1996.eng] 50-5953
- Covering. Kreiman, A.B., [1982.rus] 50-2054
- Dam construction for Norway's largest hydropower reservoir. Karlén, L.E., et al. [1995.eng] 50-5707
- Design guide for frost-protected shallow foundations. NAHB Research Center, [1994.eng] 50-3579
- Development of a mobile garage/vehicle servicing facility, Haley scientific station. Smith, A.L., et al. [1994.eng] 50-4268
- Development of leading technology in the "MOSTRO-2" (AOOT "SIBMOST") trust. Karaulov, M.E., [1995.rus] 50-3079
- Device for loosening frozen ground before excavation. Mashev, V.A., et al. [1992.rus] 50-1942
- Dome-Fuji deep drilling facility, JARE 35. Saito, T., [1995.jpn] 50-3497
- Ecologization of technological processes in oil and gas construction in arctic regions. Shishov, V.N., et al. [1990.rus] 50-1606
- Effect of cryogenic processes on the construction and operation of railroads in Transbaikalia. Shesternova, M.K., [1993.rus] 50-112
- Effect of the laying of gas pipelines on the geosystem of the cryolithozone in Western Siberia. Moskalenko, N.G., [1996.rus] 50-6849
- Effects of climate on building construction. Ruch'ev, A.P., et al. [1995.rus] 50-723
- Effects of global warming on building construction on permafrost. Khristalev, L.N., [1996.eng] 50-5861
- Engineering-ecology safety during the operation of oil and gas facilities. Konstantinov, I.P., [1996.rus] 50-6845
- Environmental evaluation of the rebuilding of Signy Station. British Antarctic Survey, [1990.eng] 50-1546
- Environmental research project for Yamburg gas fields. Chlenov, A.V., [1991.eng] 50-1766
- Environmental safety of construction of gas and oil facilities in arctic regions. Mazur, I.I., et al. [1991.eng] 50-1764
- Exhibition of snow removal equipment, Tokyo, 1988. [1988.jpn] 50-2288
- Flagship of bridge building in Siberia. Vinogradov, S.N., et al. [1995.rus] 50-3080
- Floating slab for unheated buildings. Crory, F.E., [1987.eng] 50-3757
- Forecasting settlement during the thawing of frozen ground in Urgal. Evtushenko, S.I., et al. [1985.rus] 50-246
- Foundation rehabilitation at ADOT/PF Jim River Maintenance Camp. Rooney, J.W., et al. [1991.eng] 50-1768
- Foundations for permafrost and other problem soils. Vangool, W.J., [1996.eng] 50-6132
- Frost heaving force of heated buildings. Liu, H.X., [1989.chi] 50-1382
- Gas-producing units construction experience in the arctic regions. Zavizion, V.G., [1991.eng] 50-1763
- Geocryological bases for failure mechanics of permafrost during construction development in arctic regions. Rastegaev, I.K., [1990.rus] 50-1661
- Geocryological conditions for power plant foundations in Russia. Krivonogova, N.F., et al. [1991.eng] 50-1736
- Geocryological studies in arctic regions. Vol. 4. Geokriologicheskie issledovaniya v arkhticheskikh raionakh: mezhdunarodnyy simpozium, SSSR, IAmburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, August 1989), [1990.rus] 50-2247
- Geocryological typification of a territory according to frost heave formation conditions. Verkhoviz, I.I., et al. [1993.rus] 50-113
- History of cold regions heat transfer: chronology. Cheng, K.C., et al. [1996.eng] 50-6433
- House construction in deep snow regions. Ujie, T., [1988.jpn] 50-2052
- Hydraulic fill ash storage design for the permafrost zone. Korotova, I.V., et al. [1995.eng] 50-1838
- Hydromechanization of earthwork under the conditions in the Far East and Siberia. Melnikov, I.T., [1995.rus] 50-3077
- II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973, [1973.rus] 50-5139
- Improved structure and construction engineering of bases and foundations on permafrost. Leikam, A.B., et al. [1989.rus] 50-2255
- Improving foundations in permafrost (in the example of the Noril'sk industrial region). Rastegaev, I.K., et al. [1989.rus] 50-2302
- Insulating structure. Ericsson, B., [1989.eng] 50-2340
- JARE-33 activities in summer 1991-1992 and winter 1992. Fukuchi, M., et al. [1996.jpn] 50-6348
- Laying of oil industry pipelines in permafrost conditions in Western Siberia. Karavaev, S.S., et al. [1989.rus] 50-2249
- Lessons from failures in metal-structure buildings and structures in the North; a manual. Kornilov, T.A., et al. [1995.rus] 50-5140
- Living on ice: problems of urban development in Canada's north. French, H.M., [1994.eng] 50-6099
- Low temperature cracking and rutting in asphalt concrete pavements. Vinson, T.S., et al. [1996.eng] 50-6192
- Means of testing porous materials for frost resistance. Shaparov, V.M., [1992.rus] 50-1918
- Mechanics of ice strength and breakup when erecting ice structures in the Arctic. Krasnov, I.U.N., [1989.rus] 50-2254
- Mechanistic design of asphalt concrete pavements in cold regions. Vinson, T.S., et al. [1996.eng] 50-6191
- Method for making short piles with an expanded pivot under winter conditions. Shishkov, I.U.A., [1995.rus] 50-725
- Minimum thermal protection for cold weather masonry. Korhonen, C.J., et al. [1996.eng] 50-6118
- New, low-cost, ice- and wave-resistant port facility at Nome, Alaska. Swigart, W.S., et al. [1991.eng] 50-1732
- On filtering consolidation of ground during pre-construction thawing. Barsgein, R.M., et al. [1996.rus] 50-6831
- OTH-backscatter power plant foundation design for warm, ice-rich permafrost soils. Foster, M.L., et al. [1991.eng] 50-1735
- Palmer Station docking facility. Conceptual engineering study. ITT Antarctic Services, Inc., [1986.eng] 50-3928
- Parameterizing environmental assessments for oil and gas facility construction. Semenov, L.P., [1991.eng] 50-1765
- Pegasus: a glacial-ice runway for wheeled flight operations at McMurdo Station. Blaisdell, G.L., et al. [1995.eng] 50-6501
- Performance of a Triodetic foundation near Fairbanks, Alaska. Kinney, T.C., [1996.eng] 50-6131
- Permafrost and thermal interfaces from Norman Wells pipeline ditchwall logs. Nixon, J.F., et al. [1991.eng] 50-1746
- Piles and pile foundations under conditions of Siberia. Solov'ev, I.U.I., ed. [1994.rus] 50-5141

Portable shelter to protect bridges under construction from snow and cold. Kobayashi, Y., et al. [1992.jpn] 50-3134

Prevention of frost damage to enclosure walls. Wang, G.S., [1989.chi] 50-1384

Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991, [1991.eng] 50-1696

Proceedings. International Conference on Engineering and Development in Northern Regions, Sapporo, Japan, Jan. 31-Feb. 2, 1983, [1984.eng] 50-3158

Progress report on experimental projects for snowproof housing. Takayama, Y., [1988.jpn] 50-2287

Prospects for the development of the industrial construction base in the Novosibirsk region. Ageenko, N.N., et al. [1995.rus] 50-3085

Railroad tracks on ice-rich permafrost. Kondrat'ev, V.G., et al. [1992.rus] 50-1925

Reinforcement percentage effects on bending strength of soil-ice mixtures. Nixon, W.A., et al. [1995.eng] 50-358

Research recommendations from the previous conference, 7th, 1994. Kinney, T.C., et al. [1996.eng] 50-6123

Research report on snowproofing of houses. Uchida, Y., ed. [1984.jpn] 50-2291

Road and airfield development in the subarctic and Arctic, Alaska and northwest Canada. Rooney, J.W., et al. [1996.eng] 50-6186

Roads and airfields in cold regions. Vinson, T.S., ed. et al. [1996.eng] 50-6185

Role of industries and environmental effects on corrosion control in the North. Dutta, P.K., [1996.eng] 50-3760

Route location and siting of roads and airfields. Schraeder, R.L., et al. [1990.eng] 50-6187

Scientific basis for the construction of railroads. Pereselenkov, G.S., [1995.rus] 50-3082

Shaft and Tunnel Access (SATAC) concepts for developing petroleum reserves. Haskin, C.A., et al. [1991.eng] 50-1742

Snow guards for metal roofs. Tobiasson, W., et al. [1996.eng] 50-6140

Snowproof houses Plan 50. [1986.jpn] 50-2293

Study of Alaskan snow loads. Stember, J.A., [1994.eng] 50-370

Study of deformation properties of freezing and thawing soils for cold weather construction. Ganeles, L.B., et al. [1989.rus] 50-2252

Study on integrated system design for regional development in snowy regions. [1989.jpn] 50-2039

Swedish Antarctic Research Programme, 1989/90: a cruise report. Reuterskiöld, M., [1992.eng] 50-1418

Swedish building research in Antarctica. Swedish Council for Building Research, [1992.eng] 50-1419

Temporary snow and ice pavement structures. Scher, R.L., [1996.eng] 50-6189

Thermal and vapor performance of insulated assemblies. Carlson, A.R., [1996.eng] 50-6139

Thermosiphon-based designs and applications for foundations built on permafrost. Zarling, J.P., et al. [1991.eng] 50-1733

Transportation construction in the cryolithozone. Tsernani, A.A., [1995.rus] 50-3083

U.S. Army research camps in northwest Greenland. Tobiasson, W., [1968.eng] 50-3882

United States Antarctic Program. Roberts, C.A., et al. [1994.eng] 50-105

Use of geosynthetics in road and airfield construction in cold regions. Kinney, T.C., [1996.eng] 50-6194

Using district heating pipes for freeze protection of sewer pipes. Reeve, H.E., et al. [1996.eng] 50-6440

Utilities and systems for the new Amundsen-Scott Station. Theno, S., et al. [1996.eng] 50-6142

World Oil's handbook of arctic well completions. Goodman, M.A., [1978.eng] 50-2057

Cold weather operation

1971 performance survey of DEW Line ice cap stations DYE-2 and DYE-3. Flax, D., et al. [1971.eng] 50-5756

A first for Russia: thermoshrinkage tape for pipelines. Rastigin, I.I., et al. [1995.rus] 50-2519

Air quality at a zinc/lead mine in arctic Alaska. MacCay, C., et al. [1996.eng] 50-6174

Aircraft operation for earth science study in the Yamato Mountains by JARE 35. Funaki, M., [1995.jpn] 50-3496

AMC-FAST quarterly report—January-March 1994. Department of the Army. Army Materiel Command. Field Assistance in Science and Technology Activity, [1994.eng] 50-5972

Analysis of energy balance and technical progress in the non-ferrous metallurgy industry. Panin, A.P., et al. [1992.rus] 50-713

Another look at oil transportation in and from the arctic environment. Marsden, S.S., Jr., et al. [1991.eng] 50-1711

Anti-skid chain for vehicle tires. Franklin, C.R., [1992.eng] 50-2246

Arctic bioremediation: a case study. Liddell, B.V., et al. [1991.eng] 50-1752

Ardalin field flows despite weather, terrain. Britton, M.W., et al. [1995.eng] 50-4396

Assembly for studying physical processes during drilling. Antipin, I.N., et al. [1992.rus] 50-796

Automobile traction enhancement device. Morelli, R.L., [1995.eng] 50-3470

Aviation weather: forces to be reckoned with. Taylor, R.L., [1991.eng] 50-6498

Basis for the effectiveness of using semiconductor heat pumps for mining in the North. Sleptsov, V.I., [1992.rus] 50-815

Better visibility needed in snowplowing. [1995.eng] 50-3855

Cold weather performance

Cold weather performance

- Biological phosphorus removal: effect of low temperature. Kumar, P., et al. [1996,eng] 50-4755
- Calculating intermediate reserves of mountain massifs during open pit mining. Zarovniac, B.N., et al. [1992,rus] 50-798
- Characteristics of forecasting energy consumption in the mining industry. Kuznetsov, N.M., [1992,rus] 50-714
- Circumpolar Expedition Mapfre'92 to the Arctic. De Larra-mendi, R.H., et al. [1993,spa] 50-2781
- Cold climate concerns. Part 2. Infrastructure planning and maintenance. Ryan, W.L., [1995,eng] 50-1077
- Cold regions engineering research—a strategic plan. Carlson, R.F., ed. et al. [1988,eng] 50-6209
- Cold regions infrastructure: an international imperative for the 21st century. International Conference on Cold Regions Engineering, 8th, Fairbanks, AK, Aug. 12-16, 1996, [1996,eng] 50-6106
- Cold regions utilities monograph. Third edition. Smith, D.W., ed. et al. [1996,eng] 50-6424
- Cold temperature nutrient removal from wastewater. Oleszkiewicz, J.A., et al. [1996,eng] 50-6151
- Cold weather operations [1983,eng] 50-3792
- Cold-climate constructed wetlands. Mählum, T., et al. [1995,eng] 50-6066
- Cold-related electric power system considerations. Aspnæs, J., et al. [1996,eng] 50-6143
- Construction activities inside of air structures protected from the arctic environment. Mangus, A.R., [1991,eng] 50-1730
- Countermeasures in the snow belt. Okada, H., [1995,jpn] 50-993
- County improves its snow and ice control program. da Cunha, M., [1996,eng] 50-6101
- Current conditions and countermeasures in the snow belt [1985,jpn] 50-2036
- Current conditions and countermeasures in the snow belt [1988,jpn] 50-2037
- Current conditions and countermeasures in the snow belt [1991,jpn] 50-2038
- Current status and problems of countermeasures against snow and cold for oil storage tanks. Toyama, S., [1988,jpn] 50-2284
- Damage to equipment and structures in the North. Novopashin, M.D., et al. [1993,rus] 50-465
- Danish Polar Center annual report, 1994. Dansk Polarcen-ter, [1995,eng] 50-659
- Detector for indicating ice formation on the wing of an aircraft. Luukkala, M., [1995,eng] 50-3472
- Development of a man-machine system for hydroenergy studies on the Kola Peninsula. Marchuk, S.A., et al. [1992,rus] 50-708
- Development of transportation centers and communications in northwestern Russia. Koniukhov, A.P., [1995,rus] 50-3078
- Device for maintaining ice-free areas around a floating dredging pump. Barskii, B.L., et al. [1992,rus] 50-1941
- Device for preventing water from freezing. Turutin, B.F., et al. [1992,rus] 50-1950
- Ecological-hygienic aspects of the development of the Bov-anenko gas condensate field. Kvashina, S.I., [1994,rus] 50-301
- Effect of cryogenic processes on the construction and operation of railroads in Transbaikalia. Shesterneva, M.K., [1993,rus] 50-112
- Effects of climate on building construction. Ruch'ev, A.P., et al. [1995,rus] 50-723
- End of season report: Operation Deep Freeze 95/96. U.S. Naval Support Force Antarctica, [1996,eng] 50-5807
- Energy complexes in the Kola Peninsula based on small hydro-electric stations. Marchuk, S.A., et al. [1992,rus] 50-709
- Engineering-ecology safety during the operation of oil and gas facilities. Konstantinov, I.P., [1996,rus] 50-6845
- Features of borehole blasting excavation of placers in the Far North. Dobrovolskii, G.N., et al. [1992,rus] 50-802
- Field test of waste oil combustion and empty drum cleaning at Alexandra Fiord, NWT. McCourt, J., et al. [1996,eng] 50-5565
- Fixing frozen leaks in a dam in Hokkaido. Takada, K., et al. [1995,jpn] 50-6738
- Flameout; preventing ice and water ingestion flameouts in high- and low-bypass turbine engines [1989,eng] 50-2985
- Forecasting the thermal regime of thin-walled moored structures under Arctic conditions. Shkola, A.V., et al. [1992,rus] 50-757
- Forty years of disaster mitigation in Xinjiang. Zhu, L.R., et al. [1993,chi] 50-4166
- Geocryological typification of a territory according to frost heave formation conditions. Verkhoin, I.I., et al. [1993,rus] 50-113
- Guide to polar diving. Jenkins, W.T., [1976,eng] 50-3837
- Handbook for field evaluation of the 600 ROWPU winterization kit. U.S. Army Cold Regions Research and Engineering Laboratory, [1990,eng] 50-6048
- Handling snow on the New Jersey Turnpike. Pagan, A.R., [1995,eng] 50-3859
- Heat losses through outer protective enclosures with "Bridges of cold". Shapoval, A.F., et al. [1995,rus] 50-3086
- How to battle snow and ice. Askew, D., [1995,eng] 50-3858
- Hydromechanization of earthwork under the conditions in the Far East and Siberia. Mel'nikov, I.T., [1995,rus] 50-3077
- Ice detection apparatus for transportation safety. Stolarczyk, L.G., et al. [1995,eng] 50-3475
- Ice in the intake causes close call [1990,eng] 50-3572
- Icing menace, part II. Glines, C.V., [1990,eng] 50-2987
- Icing menace. Glines, C.V., [1989,eng] 50-2986
- Innovative bioventing system construction/operation in cold regions. Strickland, K.K., et al. [1996,eng] 50-6136
- Intermittent-discharge lagoons for use in cold regions. Prince, D.S., et al. [1995,eng] 50-1840
- Japanese and snow. Yoshino, M., [1988,jpn] 50-2044
- Jeeps along the Fjöllum River: handbook of highland travel. Gislason, G.M., ed. [1994,ice] 50-2789
- Last Russian scientist in Spitsbergen [1996,eng] 50-3491
- Logistics in arctic corrosion control. Dart, T.R., [1996,eng] 50-5949
- Marine hydro-engineering and the mechanization of loading operations in ports. Iakovlev, P.I., ed. [1992,rus] 50-756
- Maryland State Highway Administration tallies record winter. Kassoff, H., [1996,eng] 50-6103
- Means of distributing waste water into soil in subfreezing temperatures. Martynov, A.G., [1992,rus] 50-1902
- Method for seismic exploration in arctic regions. Barr, F.J., et al. [1995,eng] 50-3457
- Method of calculating the sensitivity and instrument accuracy of borehole temperature equipment. Pakulin, V.A., [1983,rus] 50-317
- Municipal solid waste characterization in a cold remote region. Ogbe, A.A., et al. [1996,eng] 50-6172
- Navigation and the pollution of the coastal zone of Arctic seas. Slevich, S.B., et al. [1991,rus] 50-1319
- New technology of diamond drilling of exploratory wells in Yakutia. Skriabin, R.M., et al. [1992,rus] 50-795
- New U.S. rules established for aircraft ground deicing and anti-icing [1992,eng] 50-3576
- Offshore structure and installation method. Waddell, J.W., [1995,eng] 50-3479
- Operations management for urban snow removal and disposal. Campbell, J.F., et al. [1995,eng] 50-1107
- Overview of pipelines in Russian cold regions. Ivantsov, O.M., [1995,rus] 50-2520
- Overview of the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Hartley, A.E., Sr., [1996,eng] 50-5568
- Painting fuel storage facilities with local labor in Nunavut. Prin-sloo, H.F., [1996,eng] 50-5948
- Physical-technical problems in the development of deposits in the North. Zarovniac, B.N., ed. [1992,rus] 50-793
- Policy issues associated with leasing of the Arctic National Wildlife Refuge. Alaska. Westermeyer, W.E., [1990,eng] 50-1607
- Predicting winter weather. Williams, J., [1995,eng] 50-3686
- Problems in energy savings and key trends in their solutions. Elokhuin, V.R., et al. [1992,rus] 50-704
- Problems in the energy supply of the Murmansk region. Stepanov, I.R., ed. [1992,rus] 50-703
- Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991. [1991,eng] 50-1696
- Promotion of industry in sparsely populated areas of heavy snow in Ishikawa Prefecture. Gomi, T., ed. et al. [1984,jpn] 50-2035
- Prospects for energy supply in industrial centers. Panin, A.P., [1992,rus] 50-712
- Prospects for the industrial use of wind power on the Kola Pen-insula. Minin, V.A., et al. [1992,rus] 50-710
- Prospects for using solar energy in the Murmansk region. Minin, V.A., et al. [1992,rus] 50-711
- Relation between winter road maintenance and road safety. Sivenhed, H., [1995,eng] 50-5929
- Research recommendations from the previous conference, 7th, 1994. Kinney, T.C., et al. [1996,eng] 50-6123
- Reserves of heat supply systems. Salina, S.F., [1992,rus] 50-707
- Review of bioremediation experience in Alaska. Kellems, B.L., et al. [1994,eng] 50-1473
- Road and airfield maintenance in cold regions. Becker, J.C., et al. [1996,eng] 50-6193
- Siberia and the metro. Safronov, E.A., [1995,rus] 50-3087
- Siberian company starts up modular refinery [1996,eng] 50-5575
- Snow and ice control. Minnesota. Office of the Legislative Auditor, [1995,eng] 50-3596
- Stranded oil persistence in cold climates. Humphrey, B., et al. [1990,eng] 50-475
- Study on integrated system design for regional development in snowy regions [1989,jpn] 50-2039
- Supporting permafrost bases for tower pile-drivers of vertical mine shafts while in operation. Izakson, V.I.U., et al. [1989,rus] 50-2251
- System for recovery of oil from snow and ice surfaces. Aiken, L.B., [1995,eng] 50-3473
- Technical field operations. Zhukov, A.V., ed. [1992,rus] 50-18
- Technological-ecological problems in navigation. Stepanov, A.L., [1991,rus] 50-1318
- Technology assessment on systems for conquering and exploit-ing snow [1987,jpn] 50-2289
- Temporal weather impacts upon exterior intrusion detection sys-tems. Ryerson, C.C., et al. [1995,eng] 50-4544
- U.S. Army research camps in northwest Greenland. Tobiasson, W., [1968,eng] 50-3882
- Use of AVHRR-derived cloudiness and precipitation in weather forecasting. Karlsson, K.-G., [1992,eng] 50-228
- Using "Navstar" to determine ship maneuvering elements. Dud-nik, S.A., [1993,rus] 50-17
- Using reed beds for winter operation of wetland treatment sys-tem for wastewater. Yin, H., et al. [1995,eng] 50-6067
- Wastewater treatment through atomizing freeze-crystallization. White, J.A., et al. [1995,eng] 50-3117
- Ways of creating equipment and technology for the mining of mineral deposits in the North. Sleptsov, A.E., [1992,rus] 50-794
- Which deicing fluids should be used and how. DiNunno, G., [1992,eng] 50-2984
- Winter flying—helicopters [1985,eng] 50-3794
- Winter flying [1985,eng] 50-3793
- Winter maintenance and chemical shortages. Pagan, A.R., [1995,eng] 50-1558
- Winter operations: keeping crews safe [1995,eng] 50-3291
- Cold weather performance**
- Aircraft icing handbook [1993,eng] 50-5064
- Alternative road construction for stormwater management in cold climates. Stenmark, C., [1995,eng] 50-2532
- Alternatives for closure of solid oily waste sites on the North Slope of Alaska. Kellems, B.L., et al. [1991,eng] 50-1709
- AMC-FAST quarterly report—January-March 1994. Department of the Army. Army Materiel Command. Field Assistance in Science and Technology Activity, [1994,eng] 50-5972
- Asphaltic compositions and uses therefor. Long, H.W., [1995,eng] 50-3465
- Bare poles: building design for high latitudes. Strub, H., [1996,eng] 50-4963
- Biological remediation of shoreline oily waste from marine spills. Labrie, P., et al. [1990,eng] 50-474
- Cold recycling of reclaimed asphalt concrete. Test road in Värmland—three years experience. Jacobsson, T., [1995,swe] 50-950
- Cold region hydraulic oil applications. Uhrk, S.L., [1991,eng] 50-1758
- Cold regions aspects of mobile test bed hardening in Montana. Blaisdell, G.L., et al. [1987,eng] 50-2725
- Comments on paper by P.S. Anderson. Makkonen, L., et al. [1996,eng] 50-6587
- Comparison of two techniques for R-value calculation, using winter in-situ data. Flanders, S.N., et al. [1995,eng] 50-1979
- Concepts for frost design for upgraded runway at CONUS Base 18. Johnson, T.C., [1984,eng] 50-2308
- Concrete durability in Iceland. Idorn, G.M., [1988,eng] 50-4228
- Conductive polymeric conduit heater. Peacock, D.G., et al. [1988,eng] 50-2330
- Confirming airworthiness prior to takeoff in icing conditions—pilot options. Eioranta, J.T., [1992,eng] 50-3798
- Corrosion control paints for steel pipeline supports in cold regions. Nakamura, Y., et al. [1996,eng] 50-6121
- Crack filler works well—even in freezing weather. Shorten, R., [1995,eng] 50-1559
- Development of a wind turbine system for Antarctica. Kimura, S., [1992,eng] 50-3633
- Development of methods for assessing the frost resistance of clay bricks. Silvennoinen, K., et al. [1995,eng] 50-951
- Diode laser humidity sensor for cold environments. Phase II final technical report. Silver, J.A., et al. [1991,eng] 50-4525
- Durability of cement-bonded particleboard. De Souza, M.R., [1994,eng] 50-687
- Durability of concrete in cold climates. Pigeon, M., et al. [1995,eng] 50-919
- Durable concrete for northern environments. Gerwick, B.C., Jr., [1996,eng] 50-5950
- Economic expediency of composite insulating bricks for wall structures. Nedavii, O.I., et al. [1995,rus] 50-722
- Electromagnetic induction sounding of sea ice thickness. Kovacs, A., et al. [1996,eng] 50-4959
- Energy saving building systems based on advanced hollow core slab technology. Kajava, A., [1984,eng] 50-3160
- Evaluation of cold mixes for winter pothole repair. Prowell, B.D., et al. [1995,eng] 50-2792
- Evaluation of winter vehicle traction with different types of tires. Lu, J.J., et al. [1995,eng] 50-5709
- Experiences of wind gauges used for measurements in cold regions. Tammelin, B., [1992,eng] 50-3637
- Fatigue criteria for asphalt pavements. Laboratory and field cri-teria. Committee 34. Wiman, L.G., ed. [1996,swe] 50-5603
- Heat interactions between block-unit structures in permafrost soils. Gorbacheva, V.M., et al. [1990,rus] 50-1615
- Heat transfer through permeable cold-weather clothing. Kind, R.J., et al. [1995,eng] 50-1139
- Heated anemometer for atmospheric icing environments. Kenyon, P.R., et al. [1992,eng] 50-3638
- Icing menace, part II. Glines, C.V., [1990,eng] 50-2987
- Icing menace. Glines, C.V., [1989,eng] 50-2986
- Icing test and rework of WECS for use on Lapland's fjells. Böhm-meke, G., et al. [1992,eng] 50-3635
- Icing: performance issues. Wagner, G.A., [1990,eng] 50-2988
- Improvements in and relating to emulsion explosives. Cechan-ski, M., [1993,eng] 50-2237
- Improving the working capacity of rock-tunneling machines in frozen placer deposits. Egorov, I.K., et al. [1992,rus] 50-810
- Intermittent-discharge lagoons for use in cold regions. Prince, D.S., et al. [1995,eng] 50-1840
- Investigation and repair of a terra cotta dome in a cold climate. Ogle, R., et al. [1995,eng] 50-1978
- Jeeps along the Fjöllum River: handbook of highland travel. Gislason, G.M., ed. [1994,ice] 50-2789
- Lessons from failures in metal-structure buildings and structures in the North; a manual. Kornilov, T.A., et al. [1995,rus] 50-5140

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- Literature review on decontaminating groundwater sampling devices; organic pollutants. Parker, L.V., [1995,eng] 50-729
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- Low-temperature environmental testing system design—Part 1. Lynde, P.G., et al., [1996,eng] 50-2457
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- Manufacture and installation of duplex stainless steel line pipe for arctic application. Noble, D.N., [1996,eng] 50-5957
- Marine hydro-engineering and the mechanization of loading operations in ports. Iakovlev, P.I., ed., [1992,rus] 50-756
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- No ice on board. Johnson, J.P., et al., [1995,eng] 50-1973
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- PennDOT responds to the challenges of January's blizzards and flooding. Chizmar, S., [1996,eng] 50-6102
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- Pneumatic tire, mold, and method manufacturing. Aoki, N., et al., [1992,eng] 50-2332
- Pneumatic tire. Aoki, N., et al., [1992,eng] 50-2331
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- Pneumatic tyre. Shibata, K., [1992,eng] 50-2335
- Polymer composition for plastic material. Lerner, B.Sh., et al., [1992,rus] 50-1939
- Potential for greater use of wetlands for waste treatment in northern Canada. Doku, I.A., et al., [1995,eng] 50-361
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- Primary and secondary containment of hazardous substances in cold regions with HDPE liner. Richards, F.T., et al., [1991,eng] 50-1710
- Problem of plastic pipeline construction in the oil and gas industry. Zaitsev, K.I., [1995,rus] 50-1076
- Proceedings. International Conference on Engineering and Development in Northern Regions, Sapporo, Japan, Jan. 31-Feb. 2, 1983. [1984,eng] 50-3158
- Proceedings. International Experts' Meeting on Wind Power in Icing Conditions, Helsinki, Finland, 1992. Boreas-North Wind-Pohjatuuli, [1992,eng] 50-3626
- Process and product for removing ice or snow from a traffic surface. Dieupart, F., [1995,eng] 50-3468
- Protection against chloride-induced corrosion. Berke, N.S., et al., [1988,eng] 50-4229
- Question of using highly durable steels in the metal construction of load bearing machines. Pustovoi, V.N., [1992,rus] 50-759
- Self-contained anti-skid device for pneumatic tires. Yadegar, I., [1995,eng] 50-3458
- Small airline continues to win big battle against aircraft ground icing. [1992,eng] 50-3574
- Snow parameters for vehicle mobility modeling. Horrigan, T., et al., [1995,eng] 50-2708
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- Steel and steel reinforced concrete spans of modern bridges. Platonov, A.S., et al., [1995,rus] 50-3084
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- Thin retaining walls for conditions in the Far North and the Far East. Omelchenko, I.U.M., [1992,rus] 50-758
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- Water vapor transfer through a hydrophilic film at subzero temperatures. Oszcewski, R.J., [1996,eng] 50-4498
- Western Conference, 1996. Controlling corrosion in northern latitudes. National Association of Corrosion Engineers (NACE) International, Houston, TX. Canadian Region, [1996,eng] 50-5945
- What you need to know about prewetting deicers. Mergenmeier, A., [1995,eng] 50-3857
- Wheels that provide lateral friction on ice. Alderman, R.L., et al., [1995,eng] 50-3460
- Which deicing fluids should be used and how. DiNunno, G., [1992,eng] 50-2984
- Wind energy research in NEMO—research program. Peltola, E., [1992,eng] 50-3627
- Wind turbines in northern climates—Canadian experiences. Brothers, C., [1992,eng] 50-3634
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- AMC-FAST quarterly report—January-March 1994. Department of the Army. Army Materiel Command. Field Assistance in Science and Technology Activity, [1994,eng] 50-5972
- Antifreeze proteins in winter rye are similar to pathogenesis-related proteins. Hon, W.C., et al., [1995,eng] 50-2853
- Arctic plant chloroplast adaptation to low temperatures. Miroslavov, E.A., et al., [1996,eng] 50-6756
- Avalanche Balloon System (ABS): for or against? Sivardière, F., et al., [1995,fre] 50-2586
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- Handwarmers benefit young citrus trees during freezes. Parsons, L.R., et al., [1995,eng] 50-872
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- Insects in deep freeze. Barnes-Svarney, P., [1992,eng] 50-3035
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- Mycorrhizal diversity in arctic and alpine tundra: an open question. Gardes, M., et al., [1996,eng] 50-6550
- Perspectives of plant cold tolerance: physiology and molecular responses. Kaye, C., et al., [1995,eng] 50-4085
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- Swedish forest production losses due to summer frost. Verwijst, T., et al., [1996,eng] 50-6753
- Thermal environments of arctic soil organisms during winter. Coulson, S.J., et al., [1995,eng] 50-2811
- Tropical alpine environments—plant form and function. Rundel, P.W., ed, et al., [1994,eng] 50-3043
- Vitamin C in the prevention and treatment of frostbite. Purkayastha, S.S., et al., [1992,eng] 50-4224
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- Biological phosphorus removal: effect of low temperature. Kumar, P., et al., [1996,eng] 50-4755
- Bituminous pavements: building a bridge between theory and reality. Said, S.F., [1995,swe] 50-949
- Chlorophyll fluorescence as measure of Douglas fir cold hardiness. Fisker, S.E., et al., [1995,eng] 50-1287
- Cold acclimation of *Arabidopsis thaliana*. Uemura, M., et al., [1995,eng] 50-1462
- Cold acclimation of arctic grass photosynthetic apparatus. Koroleva, O.I.A., [1996,eng] 50-6755
- Cold acclimation biochemistry of rapeseed tissues. Smolefska-Sym, G., et al., [1996,eng] 50-5463
- Cold weather testing of outdoor gas-fired heaters. Das, D.K., [1996,eng] 50-6141
- Cold weather tests of 4-wheeled armored military vehicle. Davis, J.B., et al., [1996,eng] 50-5665
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- Comparison of sensors and conditions at Smoke Week X and Smoke Week XI. Kennedy, B.W., et al., [1990,eng] 50-737
- Desiccation of white spruce seedlings planted in the southern boreal forest of British Columbia. Krasowski, M.J., et al., [1995,eng] 50-766
- Design of an anemometer for extreme conditions. Krynski, L., et al., [1996,eng] 50-4028
- Diode laser humidity sensor for cold environments. Phase II final technical report. Silver, J.A., et al., [1991,eng] 50-4525
- Early biochemical changes during acclimation of poplar to low temperature. Jouve, L., et al., [1995,eng] 50-3453
- Earthquake shock absorbers for bridges in cold regions. Sato, M., et al., [1993,jpn] 50-2839
- Effect of frozen ground strength on hardening performance of the Hard Mobile Launcher. Chamberlain, E.J., et al., [1989,eng] 50-3042
- Effect of the environment on the bearing capacity of a road. Final report. Part 1. Pfister, R., et al., [1979,fre] 50-2451
- Effects of dehydration and freezing stress on brown algae. Pearson, G.A., et al., [1995,eng] 50-1523
- Field-tested model for freeze protection of multiphase pipelines in arctic operations. Eager, K., [1991,eng] 50-1769
- Frost durability of high strength concrete: effect of internal cracking on ice formation. Jacobsen, S., et al., [1996,eng] 50-6097
- Frost hardness of 16 European provenances of sessile oak growing in Scotland. Deans, J.D., et al., [1996,eng] 50-4329
- Frost resistance of artificially deacclimated pine needles. Taulavuori, K., et al., [1996,eng] 50-4151
- Germination properties of herb perennials on Mt. Fuji. Nishitani, S., et al., [1996,eng] 50-4343
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- Heat transfer through permeable cold-weather clothing. Kind, R.J., et al., [1995,eng] 50-1139
- How to measure the wind accurately in icing conditions. Kenyon, P.R., et al., [1996,eng] 50-4030
- Ice accretion and persistence measuring instrument. Franklin, C.H., et al., [1991,eng] 50-4364
- Material properties, specifications and testing for pavements in cold regions. Chamberlain, E.J., et al., [1996,eng] 50-6195
- Measuring salt's effectiveness in New York. Hart, R.D., et al., [1995,eng] 50-1560
- Measuring wind speed in freezing rain. Claffey, K.J., et al., [1996,eng] 50-4029
- Ottawa tests low-cost salt pre-wetting system. Miner, M., [1995,eng] 50-3292
- Relationship between water content and frost tolerance in shoots of hardwood seedlings. Calmé, S., et al., [1996,eng] 50-3296
- Reversible photoinhibition in antarctic moss during freezing and thawing. Lovelock, C.E., et al., [1995,eng] 50-2854
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- Seed germination and seedling growth of *Carex doerrii* growing on alpine zone of Mt. Fuji. Kibe, T., et al., [1993,eng] 50-956
- Snow damage to spruce trees during a fertilization experiment. Valinger, E., et al., [1996,eng] 50-4330
- Standard test methods for tire performance testing on snow and ice surfaces. American Society for Testing and Materials, [1995,eng] 50-886
- Statistical analysis of freezing tolerance indices from plant electrolyte variations. Anisko, T., et al., [1995,eng] 50-3612
- Study on methods to restore the performance of drainable pavements. Abe, A., et al., [1995,jpn] 50-6802
- Testing methods and frost resistance standardization of concrete. Ivanov, F.M., [1995,eng] 50-2623
- Testing of radome material and special coatings for North Warning System. Crory, F.E., [1988,eng] 50-761
- Tests clear snow, path for use of liquid anti-icing in northwest. Deep, D., et al., [1995,eng] 50-1954
- Tests of asphalt pavements with improved drainage in cold regions. Toya, K., et al., [1995,jpn] 50-6801
- Tests of electro-optic sensors in smoke and obscurants. Quebec, Feb.-Mar. 1989. Kennedy, B.W., et al., [1990,eng] 50-736
- Tests on snowplows (continuation)—tests on improving the performance of snowplows. Hokkaido Development Bureau, [1995,jpn] 50-6740
- Traction and hardening tests of mobile missile launcher over frozen ground. Chamberlain, E.J., et al., [1988,eng] 50-2524
- Tree tissue xylem dysfunction from freezing stress. Hacke, U., et al., [1996,eng] 50-5773
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Geocryological studies in arctic regions. Vol. 5: Poster papers. Geokriologicheskie issledovaniia v arkticheskikh raionakh: mezhdunarodnyi simpozium. SSSR, IAmburg. Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg. August 1989). [1990,rus] 50-2299
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Forecasting the thermal regime of thin-walled moored structures under Arctic conditions. Shkola, A.V., et al. [1992,rus] 50-757
Geographic information system for SILMU and the modelling of soil carbon flows. Alm, J., et al. [1994,eng] 50-3230
Grain structure of first year sea ice in a Greenland fjord. Johnston, M., et al. [1995,eng] 50-2965
Hydroclimatic data by Greenland Field Investigations. Scharling, M., et al. [1995,eng] 50-2966
Ice detection apparatus for transportation safety. Stolarczyk, L.G., et al. [1995,eng] 50-3475
INSROP GIS—the concept and its role in INSROP. Levás, S.M., et al. [1996,eng] 50-4426
Local forecasting of avalanche hazard in La Plagne. Schneider, C., [1995,fre] 50-4657
Measurement of ice accretion and persistence at unmanned sites. Final report. Hill, G.E., [1990,eng] 50-4365
Methods for creating a monitor of dangerous natural phenomena using an electronic map. Bidenko, S.I., [1991,rus] 50-1290
Preliminary application of Canadian ice regime system to the Northern Sea Route. Jones, S.J., et al. [1996,eng] 50-4429
Prospects for energy supply in industrial centers. Panin, A.P., [1992,rus] 50-712
Satellite systems for hazard monitoring. Barrett, E.C., et al. [1992,eng] 50-619
Study on integrated system design for regional development in snowy regions. [1989,jpn] 50-2039
Surveying methods and geocryological databases in the Russian GMGS system. Dubrov, V.A., et al. [1996,rus] 50-6856
Use of a Geographical Information System in environmental management in Greenland. Aastrup, P., [1994,eng] 50-302
Using computers for MSS image analysis in land use classification. Cheng, X.J., et al. [1991,chi] 50-5111
West coast Newfoundland oil spill sensitivity atlas. Dempsey, J.I., et al. [1995,eng] 50-1468
- Computer programs**
Air Force Global Weather Central Surface Temperature model. Kopp, T.J., [1995,eng] 50-3300
Alberta Hail Project Data Archive available on the World Wide Web. Kochubajda, B., et al. [1996,eng] 50-5201
Analysis of energy balance and technical progress in the non-ferrous metallurgy industry. Panin, A.P., et al. [1992,rus] 50-713
Arctic and Offshore Research Information System. Shoemaker, H.D., et al. [1991,eng] 50-1753
ASTRAL: the French program for research on avalanche forecasting by analogous days. Guyomarch, G., et al. [1995,ita] 50-2598
Automated aircraft icing forecast technique project report. Mansur, M.V., [1984,eng] 50-4619
Background classification for infrared seekers. Berger, R.H., [1991,eng] 50-765
Bank of arctic seismological data. Avetisov, G.P., et al. [1995,eng] 50-6528
Calculating complex forms of pipeline icing. Popov, I.U.A., et al. [1995,rus] 50-3441
Calculating the dimensions of a flat pillar. Kovalev, I.I., [1992,rus] 50-807
Classification of arctic cloud and sea ice features in multi-spectral satellite data. Key, J.R., [1994,eng] 50-4357
Computer network database for paleoclimatological studies. Roof, S.R., et al. [1996,eng] 50-5712
Cryolithozone of Western Siberia (thermal condition, database and mapping). An, V.V., et al. [1996,rus] 50-6359
Digital terrain model of topographic obstruction to solar radiation in the Tian Shan. Li, X., et al. [1995,chi] 50-3997
Diode laser humidity sensor for cold environments. Phase II final technical report. Silver, J.A., et al. [1991,eng] 50-4525
Environmental loading studies for the CSA Offshore Structures Code. Allyn, N., et al. [1995,eng] 50-1411
Estimation of mean velocity for flow under ice cover. Teal, M.J., et al. [1995,eng] 50-4040
Extraction of deformation descriptors from spaceborne radar ice motion products. Li, S., et al. [1995,eng] 50-1812
Feasibility study of an ionospheric database. Checha, V.A., [1991,rus] 50-1640
Forecasting earth surface temperature for the optimal application of frost protection methods. Krasovitski, B., et al. [1996,eng] 50-5021
From card catalog to computer file: the impact of technology on the production of polar bibliographic databases. Andrews, M., [1994,eng] 50-5247

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- Groundwater flow and heat conduction in soil around a freeze pipe. Hashemi, H.T., et al. [1996.eng] 50-4606
- Gulf Canada probabilistic ice load model: operation and parametric sensitivity study. Watson, D.A., et al. [1995.eng] 50-1413
- Heat losses through outer protective enclosures with "Bridges of cold". Shapoval, A.F., et al. [1995.rus] 50-3086
- Hybrid model for predicting permafrost occurrence and thickness. Wright, J.F., [1995.eng] 50-5669
- Icefield Ranges climatology program: 1965 data presentation and programming analysis. Marcus, M.G., et al. [1966.eng] 50-3975
- IceNav shipboard radar integration. Marton, C., [1995.eng] 50-4042
- Incorporation of a drainage layer and infiltration into FROST. Abdel-Salam, A., et al. [1993.eng] 50-6050
- INSROP GIS—the concept and its role in INSROP. Lövås, S.M., et al. [1996.eng] 50-4426
- Interactive oil spill trajectory model for Alaskan arctic waters. Britch, R.P., et al. [1990.eng] 50-468
- ISWRIS information system for runoff forecasting of the upper Yellow River. Wang, J., et al. [1990.chi] 50-6656
- Methodology for predicting for winter conditions in the NATO Reference Mobility Model. Ahlvin, R.B., et al. [1995.eng] 50-48
- Modeling winter storms over Arizona. Vol.2: microphysics model. Matthews, D.A., [1995.eng] 50-2799
- Modeling winter storms over Arizona. Vol.3: local-scale model. Medina, J.G., [1995.eng] 50-2800
- Moisture-based model for calculating daily changes in seasonal soil frost depth. Ryerson, C.C., [1979.eng] 50-3713
- Numerical modelling of ice jams. Petryk, S., [1995.eng] 50-788
- NXLOG avalanche model as applied at the Presena glacier ski lift. Cestari, P., [1995.ita] 50-2597
- NXLOG model—local avalanche forecasting in Switzerland: strategy and means. Bolognesi, R., et al. [1995.ita] 50-2596
- OASIS avalanche database. Gillet, M., [1995.fre] 50-2590
- Object-GAWSER: object-oriented Guelph all-weather storm-event runoff model. Phase 1: training manual. Hincley, J.A., Jr., [1996.eng] 50-4545
- Operations management for urban snow removal and disposal. Campbell, J.F., et al. [1995.eng] 50-1107
- Optimal design of piping systems for district heating. Pheletplace, G., [1995.eng] 50-1519
- Output design of GIS production of snow disaster monitoring and assessment system. Li, X., et al. [1995.chi] 50-3990
- Processing and analysis of data from oceanographic field experiments. Golubev, V.A., et al. [1992.rus] 50-1261
- Prospects for energy supply in industrial centers. Panin, A.P., [1992.rus] 50-712
- RIVER3: simulation of river discharge and sediment transport. Syvitski, J.P.M., et al. [1995.eng] 50-3597
- Simulation of ship transit for Baltic ice conditions. La Prairie, D., et al. [1995.eng] 50-4583
- Simulation of ship-ice collision dynamics. Phillips, L.D., [1994.eng] 50-5670
- Smart Weapons Operability Enhancement (SWOE) Joint Test and Evaluation (JT&E) Program. Final report. Welsh, J.P., [1994.eng] 50-2453
- Spatial energy budgets in alpine tundra. Greenland, D., [1993.eng] 50-4802
- Stable isotopes as hydrologic tracers in South Cascade Glacier. Vaughn, B.H., [1994.eng] 50-5546
- Submesoscale variation in snow-induced obscuration. Hogan, A.W., [1991.eng] 50-762
- Surveying methods and geocryological databases in the Russian GMGS system. Dubrovnik, V.A., et al. [1996.rus] 50-6856
- Tests of computer models for forecasting avalanches in Italy. Gaddo, M., [1995.ita] 50-2595
- Time series in geocryology. Mel'nikov, V.P., et al. [1992.rus] 50-134
- Use of a Geographical Information System in environmental management in Greenland. Aastrup, P., [1994.eng] 50-302
- Use of layered theory in the design and evaluation of pavement systems. Hicks, R.G., et al. [1982.eng] 50-5914
- Using integrated numerical analytical microcomputer software in alkaline soil analysis. Yao, G.R., et al. [1991.chi] 50-5117
- Wellbore multiphase-flow correlation for the eastern operating area of Prudhoe Bay. Bradley, D.A., [1991.eng] 50-1728
- West coast Newfoundland oil spill sensitivity atlas. Dempsey, J., et al. [1995.eng] 50-1468
- WinOil: an oil spill model for Windows 95. McGillivray, D.G., et al. [1996.eng] 50-5555
- Computerized simulation**
- 1-D model of the formation and evolution of polar stratospheric clouds. Panegrossi, G., et al. [1996.eng] 50-3812
- Accretion of monodisperse droplets on a thin wire. Prodi, F., et al. [1996.eng] 50-5393
- Action of HPLC6 antifreeze polypeptide in solution. Brook-Taylor, C.A., et al. [1996.eng] 50-5298
- Aerosol-stratus cloud parameterization for middle and high latitudes. Olsson, P.Q., et al. [1996.eng] 50-5280
- AFGWC snow analysis model. Hall, S.J., [1986.eng] 50-2469
- Air Force Global Weather Central Surface Temperature model. Kopp, T.J., [1995.eng] 50-3300
- Algorithm for optimizing road salting routes. Li, L.Y.O., et al. [1996.eng] 50-4011
- Analogue computer for solving growth problems of floating ice. Schwerdtfeger, P., [1964.eng] 50-4608
- Application of subspace method in snow recognition. Liu, Z.K., et al. [1990.chi] 50-6659
- Arctic Ocean ice and water transport during 1946-1988. Proshutinski, A.I.U., et al. [1995.eng] 50-6313
- Atmospheric ozone as a climate gas: general circulation model simulations. Wang, W.C., ed. et al. [1995.eng] 50-1771
- Automated aircraft icing forecast technique project report. Mansur, M.V., [1984.eng] 50-4619
- Automated approach to the sea-ice motion estimation. Mocze-zuma Flores, M., et al. [1994.eng] 50-5175
- Automatic ice motion retrieval from ERS-1 SAR images using the optical flow method. Sun, Y., [1996.eng] 50-5824
- Avalanche hazard forecasting at the department level: the example of Isère. Villecroze, J., [1995.fre] 50-4664
- Avalanche hazard mapping with satellite data and a digital elevation model. Gruber, U., et al. [1995.eng] 50-2345
- Chemistry of ozone in the upper troposphere and lower stratosphere. Ravishankara, A.R., [1995.eng] 50-1777
- Classical and quantum mechanical studies of ice Ih near the melting temperature. Gai, H.D., et al. [1996.eng] 50-3099
- Climate dynamics and global change. Lindzen, R.S., [1994.eng] 50-5242
- Climatic trends in the Colorado-Big Thompson Project area. U.S. Bureau of Reclamation. Denver Office, Denver, CO, [1994.eng] 50-5007
- Comparison between neural network and statistical snowfall prediction methods. McGinnis, D.L., [1994.eng] 50-4356
- Comparison of aircraft icing forecast models. Cornell, D., et al. [1995.eng] 50-2471
- Computer model of glaze accretion on wires. Draganovic, G., et al. [1996.eng] 50-5160
- Computer modeling of avalanche triggering by wind. Sivardiere, F., et al. [1993.eng] 50-1064
- Computer simulation of arctic shelf freezing during the Pleistocene. Sigunov, I.U.A., et al. [1995.eng] 50-6582
- Computer simulation of heat conduction in freezing and thawing soils. Hashemi, H.T., et al. [1966.eng] 50-4605
- Computer simulations of Alaskan neotectonics. Bird, P., [1996.eng] 50-6215
- Connections between atmospheric ozone, the climate system and UV-B-radiation in the Arctic. Taalas, P., et al. [1995.eng] 50-1779
- Coupled ice-ocean-atmosphere model of the Bering Sea. Hedstrom, K.S., [1995.eng] 50-6310
- Distinct element modelling of seabed-ice rubble interaction. Evgin, E., et al. [1993.eng] 50-5597
- Distributed approach to modeling snowmelt runoff in alpine catchments. Bales, R., et al. [1992.eng] 50-3030
- Distributed mass/discrete floe model for predicting pack ice motion. Matsuzawa, T., et al. [1996.jp] 50-5886
- Distributed snow process modeling: an image processing approach. Davis, R.E., et al. [1995.eng] 50-3108
- Distributed snow process modelling: an image processing approach. Davis, R.E., et al. [1995.eng] 50-2462
- Durability cracking from freeze-thaw in concrete. Janssen, D.J., et al. [1986.eng] 50-2801
- Dynamic monitoring information system for snow of remote sensing imagery. Liu, Z.K., et al. [1990.chi] 50-6657
- Dynamic response of ice shedding on electrical transmission lines. Fekr, M.R., et al. [1996.eng] 50-5338
- Effect of size on distributed damage and fracture of sea ice. Bazant, Z.P., et al. [1995.eng] 50-6278
- Effects of forest clearcutting on snow hydrology. Meng, F.R., et al. [1995.eng] 50-768
- Electrical properties of pure and doped ice Ih. Taubenberger, R., [1982.ger] 50-5761
- Energy balance and hydrological processes in an arctic watershed. Hinzman, L.D., et al. [1996.eng] 50-4844
- Environmental loading studies for the CSA Offshore Structures Code. Allyn, N., et al. [1995.eng] 50-1411
- Estimating snowmelt runoff erosion indices for Canada. Hayhoe, H.N., et al. [1995.eng] 50-967
- Estimating soil temperatures and frost in the lake effect snowbelt region, Michigan. USA. Isard, S.A., et al. [1995.eng] 50-1140
- Estimation of daily evapotranspiration from one time-of-day thermal infrared temperature. Li, F.Q., et al. [1990.chi] 50-6662
- Expert system for automated interpretation of ground penetrating radar data. Lee, S., et al. [1992.eng] 50-62
- Explicit cloud physics parameterization for operational numerical weather prediction. Schultz, P., [1995.eng] 50-1529
- Fluvial dynamics in the periglacial belt of the central Austrian Alps. Höfner, T., [1995.eng] 50-2751
- Forecast of spring snowmelt runoff in the upper Yellow River. Lan, Y.C., et al. [1990.chi] 50-6652
- Forward coupled-model propagation modeling for coastal acoustic tomography. Chiu, C.S., et al. [1996.eng] 50-4589
- Frost heave due to ice lens formation in freezing soils. 2. Field application. Sheng, D., et al. [1995.eng] 50-743
- Fuzzy region segmentation of snow remote sensing imagery. Liu, Z.K., et al. [1990.chi] 50-6660
- Fuzzy-controller for flow and mixture regulation in an aircraft deicing vehicle. Knappe, H., [1993.eng] 50-2298
- GCM modeling of the stratospheric dynamics and its coupling with chemistry. Canolle, D., et al. [1995.eng] 50-1773
- GCM study of the climatic effect of 1979-1992 ozone trend. Liang, X.Z., et al. [1995.eng] 50-1776
- Greenland ice sheet in response to various climate scenarios. Calov, R., et al. [1996.eng] 50-6435
- Ground penetrating radar detection of a buried metallic object. O'Neill, K., et al. [1996.eng] 50-4038
- High spatial and temporal resolution database for synthetic scene generation and validation. Bleiweiss, M.P., et al. [1995.eng] 50-3756
- Hydrological controls on ecosystem gas exchange in an arctic landscape. Ostendorf, B., et al. [1996.eng] 50-4855
- Ice prediction systems for runways. Haavasoja, T., et al. [1991.eng] 50-3268
- Ice sheet modeling and reconstruction. Hughes, T.J., [1995.eng] 50-3583
- Ice-ocean seasonal cycle and climate response in Hudson Bay. Soucier, F.J., et al. [1995.eng] 50-5931
- Ice-structure interaction under slippage boundary conditions. Maiskevich, D.G., [1995.eng] 50-2936
- Impact of climate change on snow conditions in the French Alps. Martin, E., et al. [1995.fre] 50-4693
- Improved fuzzy clustering algorithm for snow recognition. Liu, Z.K., et al. [1990.chi] 50-6658
- Improved numerical model for wind turbine icing. Finstad, K.J., et al. [1996.eng] 50-5391
- Incorporation of a drainage layer and infiltration into FROST. Abdel-Salam, A., et al. [1993.eng] 50-6050
- Indiana streamlines permitting and ice/snow removal. Pitman, R., [1996.eng] 50-3495
- Information system for snowmelt runoff in Qinghai Province. Feng, X.Z., et al. [1990.chi] 50-6655
- Integrated approach to shoreline mapping for spill response planning. Owens, E.H., et al. [1996.eng] 50-5561
- Interactive oil spill trajectory model for Alaskan arctic waters. Britch, R.P., et al. [1990.eng] 50-468
- Land surface studies and atmospheric effects by satellite microwave radiometry. Aschbacher, J., [1990.eng] 50-6691
- Limits of wind-tunnel modeling of snow accumulations. Naaim-Bouvet, F., [1995.eng] 50-4667
- Mapping of winter surface conditions at Camp Grayling, Michigan. Haugen, R.K., et al. [1992.eng] 50-738
- Martian atmospheric carbon 14 as indicator of atmosphere-regolith gas exchange. Jakosky, B.M., et al. [1996.eng] 50-3009
- Mathematical model of pollution vectors in the arctic basin. Kravivin, V.F., et al. [1996.eng] 50-3412
- Meltwater generation, infiltration and runoff from the Greenland ice sheet. Zou, J.H., [1993.eng] 50-699
- MEPRA and the risk of accidental release of avalanches. Giraud, G., et al. [1995.fre] 50-4662
- Migrations and evolution: computerised maps from computerised data. Brown, S.M., [1994.eng] 50-914
- Modeling decomposition in arctic ecosystems. Moorhead, D.L., et al. [1996.eng] 50-4854
- Modeling the spatial distribution of wind-transported snow in the ELISA system. Mases, M., et al. [1995.fre] 50-4647
- Modeling the summertime arctic cloudy boundary layer. Curry, J.A., et al. [1996.eng] 50-5275
- Modeling winter storms over Arizona. Final report—Volume 1. Matthews, D.A., et al. [1995.eng] 50-2798
- Modelling arctic climate change. Cattle, H., et al. [1995.eng] 50-5227
- Modelling of permafrost depth in France during the last 120,000 years. Lebre, P., et al. [1996.fre] 50-4570
- Modelling vehicle mobility over multi-layered deep snowcover. Irwin, G.J., et al. [1995.eng] 50-50
- Models in engineering geocryology and their use in the organization of scientific studies. Levkovich, V.R., et al. [1989.rus] 50-2304
- Molecular dynamic simulation of proton transport in supercooled water. Di Cola, D., et al. [1996.eng] 50-3715
- Molecular dynamics investigations of slow relaxations in supercooled liquids. Hansen, J.P., et al. [1995.eng] 50-1226
- Molecular dynamics simulation of ice crystal growth. Nada, H., et al. [1996.jp] 50-4932
- Molecular dynamics simulation of vapor deposited amorphous ice. Essmann, U., et al. [1995.eng] 50-419
- Molecular dynamics simulation studies on ice: interatomic models. Kawamura, K., [1996.jp] 50-6733
- Molecular dynamics study of the freezing of clusters of chalcogen hexafluorides. Kinney, K.E., et al. [1996.eng] 50-5780
- New approaches to numerical mapping of avalanches. Borrel, G., [1995.fre] 50-4675
- Nonlinear creep of artificially frozen Emscher marl. Klein, J., [1978.ger] 50-3852
- Numerical avalanche hazard forecast for the next day. Durand, Y., et al. [1995.fre] 50-4666
- Numerical landscapes: static, kinematic and dynamic process-form relations. Richards, K., et al. [1995.eng] 50-4153
- Numerical modelling of ice jams. Petryk, S., [1995.eng] 50-788
- Numerical simulation of arctic pressure ridging. Hopkins, M.A., [1995.eng] 50-6289
- Object-GAWSER: object-oriented Guelph all-weather storm-event runoff model. Phase 1: training manual. Hincley, J.A., Jr., [1996.eng] 50-4545
- Oil spill risks for Copper River Delta in Alaska. Christensen, F.T., et al. [1996.eng] 50-5556
- On the prediction of hydraulic conductivity of frozen soils. Tarnawski, V.R., et al. [1996.eng] 50-4307
- Ozone abundance, cloud effects, and spectral irradiance. Starnes, K.H., et al. [1991.eng] 50-1417
- Passive microwave remote sensing of snow: volume scattering in antarctic firn. Tsang, L., et al. [1995.eng] 50-4181

Computers

Concrete curing

- Patch and landscape models of arctic tundra: potentials and limitations. Reynolds, J.F., et al. [1996,eng] 50-4852
- Phase equilibria in extended simple point charge ice-water systems. Báez, L.A., et al. [1995,eng] 50-2606
- Physically based constitutive modeling of ice. Connor, J.J., et al. [1995,eng] 50-6288
- Polythermal model of the antarctic ice sheet. Hansen, I., et al. [1996,eng] 50-6434
- Predicting sediment load of Swiss rivers. Hunziker, R.P., [1995,ger] 50-4173
- Predicting the location of permafrost in central Yukon Territory. Williams, D.J., [1995,eng] 50-5668
- PROTEON—a model for local forecasting of blowing snow. Guyomarch, G., et al. [1995,fr] 50-4654
- Quartzlike polymorph of ice. Svishchev, I.M., et al. [1996,eng] 50-4412
- Radiative transfer in atmosphere-sea ice-ocean system. Jin, Z., et al. [1996,eng] 50-5276
- Real time oil spill forecasting during an experimental oil spill in the arctic ice. Reed, M., et al. [1994,eng] 50-1685
- Real-time operational forecasting on shipboard of the Iceland-Faeroe frontal variability. Robinson, A.R., et al. [1996,eng] 50-4742
- Recent trends in ozone changes and increased greenhouse gases. Graf, H.F., et al. [1995,eng] 50-1775
- RIVER3: simulation of river discharge and sediment transport. Syvitski, J.P.M., et al. [1995,eng] 50-3597
- Road-related disturbances in an arctic watershed. Leadley, P.W., et al. [1996,eng] 50-4856
- Satellite snow monitoring and runoff forecasting for the Yellow River. Zeng, Q.Z., [1990,chi] 50-6650
- Simple model for freezing rain ice loads. Jones, K.F., [1996,eng] 50-5399
- Simulated transport of three cations through porous media. Grant, S.A., et al. [1995,eng] 50-5598
- Simulation of sea ice behaviour—a parametric study. Evgin, E., et al. [1995,eng] 50-2952
- Simulation of ship transit for Baltic ice conditions. La Prairie, D., et al. [1995,eng] 50-4583
- Simulation of the ice-structure interaction under the parabolic strength criterion for ice. Matkevich, D.G., [1995,eng] 50-190
- Simulations of stratospheric ozone in a climate model. Austin, J., et al. [1995,eng] 50-1772
- Smart weapons operability enhancement synthetic scene generation process. Koenig, G.G., et al. [1995,eng] 50-3755
- Snow scavenging effects on large-area smoke screens. Sloia, J.R., et al. [1991,eng] 50-764
- Snow-mass intercomparisons in the boreal forests. Foster, J., et al. [1996,eng] 50-5837
- Snowmelt hydrologic model of the Upper Sheep Creek watershed. Jackson, T.H.R., [1994,eng] 50-701
- Snowmelt modelling by combining air temperature and a distributed radiation index. Cazorzi, F., et al. [1996,eng] 50-5689
- Software for snow data and avalanche forecasting. Dumas, J.L., et al. [1996,fr] 50-4964
- Soil deformation and stress analysis under a rolling wheel. Foster, W.A., Jr., et al. [1995,eng] 50-47
- Soil thermal properties for the design of underground structures in cold regions. Steinmanis, J.E., et al. [1996,eng] 50-6146
- Solar halos and sun dogs. Glassner, A., [1996,eng] 50-4499
- Spatial energy budgets in alpine tundra. Greenland, D., [1993,eng] 50-4802
- Spatial explicit modeling of arctic tundra landscapes. Ostendorf, B., [1994,eng] 50-698
- Stratospheric ozone research in Finland, focusing on atmospheric modelling. Rummukainen, M., et al. [1995,eng] 50-1778
- Study on the remote sensing information model of soil moisture. Ma, A.N., et al. [1990,chi] 50-6661
- Supercell simulations with simple ice parameterization. Tartaglione, N., et al. [1996,eng] 50-3709
- Synthetic scene generation process for smart weapons. Welsh, J.P., et al. [1995,eng] 50-3834
- Technique for nowcasting hourly snowfall. Chappell, C.F., et al. [1991,eng] 50-3262
- Temperatures and stresses in frost susceptible soil around a chilled pipeline. Coutts, R.J., [1991,eng] 50-70
- Test of the snow cover numerical model Crocus in avalanche forecasting. Mingo, L., [1995,eng] 50-4646
- Testing mode-coupling theory for a supercooled binary Lennard-Jones mixture. Kob, W., et al. [1995,eng] 50-1227
- Thermal calculation for anti-icer with micro-ejector. Qui, X.G., et al. [1995,eng] 50-1067
- Thermal impact of a buried chilled gas pipeline. Raad, L., et al. [1996,eng] 50-6124
- Three-dimensional modelling of ice accretion micro structure. Szilder, K., et al. [1996,eng] 50-5340
- Three-dimensional simulation of river ice jams. Hopkins, M.A., et al. [1996,eng] 50-6155
- Towards a hydrological model for computerized ice-sheet simulations. Alley, R.B., [1996,eng] 50-6092
- Turbine blade icing model. Finstad, K.J., et al. [1992,eng] 50-3628
- Two examples of expert knowledge based system for avalanche forecasting and protection. Buisson, L., et al. [1995,eng] 50-1055
- Two-dimensional dynamic simulation of solid fracture. Part I: description of the model. Potapov, A.V., et al. [1995,eng] 50-947
- Two-dimensional dynamic simulation of solid fracture. Part II: examples. Potapov, A.V., et al. [1995,eng] 50-1097
- United States Navy operational oceanographic nowcast/forecast system. Durham, D.L., [1994,eng] 50-5176
- Use of a GIS to develop a stratified snow survey in a mountainous agricultural landscape. Pierson, D., et al. [1995,eng] 50-3111
- Verification of avalanche danger with respect to avalanche forecasting. Fohn, P.M.B., et al. [1995,fr] 50-4663
- Wellbore multiphase-flow correlation for the eastern operating area of Prudhoe Bay. Bradley, D.A., [1991,eng] 50-1728
- Computers**
- Automatic integrated model installed at Terra Nova Bay. Lori, A., [1994,eng] 50-4281
- High-speed network for communication by voice, data video and fax among three antarctic bases. Blasi, L., et al. [1994,eng] 50-4282
- Mac Weather: improved meteorological support in Antarctica. Joseph, J.E., [1994,eng] 50-4285
- Satellite systems for hazard monitoring. Barrett, E.C., et al. [1992,eng] 50-619
- Concrete admixtures**
- Aging and low-temperature cracking of asphalt concrete mixture. Kliever, J.E., et al. [1996,eng] 50-6426
- Antifreezes and frost resistance of concrete at early ages. Hama, Y., et al. [1995,eng] 50-2682
- Asphaltic compositions and uses therefor. Long, H.W., [1995,eng] 50-3465
- Basic properties of expansive admixture with anti-freezing admixture in a grout. Nakamura, H., et al. [1995,eng] 50-2643
- Belite-based low-heat cement for low temperature environments. Hirose, S., et al. [1995,eng] 50-2652
- Cement type and freeze-thaw resistance of concrete. Stark, J., et al. [1995,eng] 50-2637
- Characterization of mortars as surface repair materials. Mirza, J., [1992,eng] 50-2759
- Concrete mixture proportioning techniques for remote Alaskan locations. Nichols, M.R., et al. [1995,eng] 50-2671
- Concrete scaling from deicing salts. Johnston, C.D., [1995,eng] 50-2641
- Concrete under severe conditions: environment and loading. Sakai, K., ed. et al. [1995,eng] 50-2618
- Concrete/reinforcing steel bond strength of low-temperature concrete. Schroeder, H.P., et al. [1996,eng] 50-4757
- Creep, shrinkage, frost, and sulphate resistance of high strength concrete. Ghosh, S., et al. [1995,eng] 50-577
- Development of high-range antifreezing, water-reducing agent. Saitoh, K., et al. [1995,eng] 50-2645
- Discussion of paper by Aavik and Chandra. Mather, B., et al. [1995,eng] 50-4501
- Durability of cementitious mortars containing silica fume. Quaresima, R., et al. [1995,eng] 50-2630
- Durability of concrete in cold climates. Pigeon, M., et al. [1995,eng] 50-919
- Dynamic modulus of elasticity and durability of no-fines concrete. Tamai, M., et al. [1995,eng] 50-2683
- Effects of superplasticizers on the properties of cement mortar in cold environments. Sugiyama, M., et al. [1995,eng] 50-2648
- Energetically modified cement (EMC) for high performance concrete in winter concreting. Ronin, V., et al. [1995,eng] 50-2666
- Fine-grained slag sand and fly ash concrete with higher frost resistance and waterproofness. Pavlenko, S.I., et al. [1992,eng] 50-2758
- Freezable water in portland cement paste. Gress, D.L., et al. [1995,eng] 50-2631
- Freeze-thaw durability of concrete cured below 0°C using anti-freeze admixtures. Mason, M.R., et al. [1996,eng] 50-6122
- Freeze-thaw durability testing of oversanded bridge floor concrete. Ouyang, C.S., [1995,eng] 50-4949
- Freezing and thawing of non-air-entrained and air-entrained concrete. Li, Y., et al. [1994,eng] 50-2768
- Freezing and thawing resistance of concrete pavers saturated in de-icing chemicals. Ghafouri, N., et al. [1995,eng] 50-2638
- Frost durability of concrete containing viscosity-modifying admixtures. Khayat, K.H., [1995,eng] 50-4500
- Frost durability of high flowing concrete using fine mineral powders. Khanzadi, M., et al. [1995,eng] 50-2629
- Frost durability of high strength concretes. Kukko, H., et al. [1995,fin] 50-1158
- Frost effects on high strength concrete without air entrainment. Kukko, H., [1995,eng] 50-2627
- Frost resistance of concrete with and without silica fume. Zhou, Y.X., [1994,eng] 50-374
- Frost resistance of high-performance concrete. Folliard, K.J., [1995,eng] 50-4172
- Frost resistance of roller-compacted high-volume fly ash concrete. Pigeon, M., et al. [1995,eng] 50-1466
- Frost-resistant autoclaved lightweight concrete. Hama, Y., et al. [1993,jpn] 50-3484
- High performance slag ash concrete. Pavlenko, S.I., [1995,eng] 50-2680
- High strength concrete—freeze/thaw testing and cracking. Jacobsen, S., et al. [1995,eng] 50-3700
- High-performance concrete incorporating large volumes of ASTM Class F fly ash. Bilodeau, A., et al. [1994,eng] 50-2765
- High-performance concrete: low-heat and high-strength. Sakai, K., et al. [1994,eng] 50-2766
- High-strength concrete containing silica fume. Torii, K., et al. [1994,eng] 50-2767
- High-strength concrete for low temperature environment by using silica fume. Amaya, T., et al. [1995,eng] 50-2649
- Low-heat high-strength concrete using admixtures in a low temperature environment. Horibe, K., et al. [1995,eng] 50-2646
- Low-heat high-strength superplasticized concrete. Arashima, T., et al. [1995,eng] 50-2647
- Migrating corrosion inhibitors for reinforced concrete. Miksic, B., et al. [1996,eng] 50-5947
- Minimum thermal protection for cold weather masonry. Korhonen, C.J., et al. [1996,eng] 50-6118
- Mix design of belite type low-heat cement at low temperatures. Lessard, M., et al. [1995,eng] 50-2670
- Properties of belite type low-heat cement at low temperatures. Igarashi, H., et al. [1995,eng] 50-2651
- Properties of concrete with highly pulverized blast-furnace slag. Wakasugi, S., et al. [1995,eng] 50-2650
- Rapid hardening additive of chloride-free under low temperature environments. Ashida, M., et al. [1995,eng] 50-2642
- Raw mixture for preparing concrete. Nikonova, N.S., et al. [1992,rus] 50-1946
- Roller compacted concrete for a cold region dam. Yasunaka, S., et al. [1995,eng] 50-2679
- Strength development of setting accelerated concrete under low temperature environment. Anazawa, M., et al. [1995,eng] 50-2644
- Studies of shotcrete using ultra rapid hardening cement, steel fiber, and silica fume. Masuda, Y., et al. [1992,eng] 50-2756
- Sulphur concrete for use in cold regions. Vroom, A.H., [1984,eng] 50-3159
- Superplasticizer dosage effects on concrete frost resistance. Gagné, R., et al. [1996,eng] 50-5922
- Temperature influence on concrete structures and its hardening. Krylov, B.A., et al. [1995,eng] 50-2668
- Concrete aggregates**
- Alteration of C-S-H and ASR gels in deteriorated concretes. Newfoundland, Canada. Katayama, T., et al. [1995,eng] 50-2676
- Asphaltic compositions and uses therefor. Long, H.W., [1995,eng] 50-3465
- Composition of deicer impregnated in aggregate for pavement. Pantegill, M.G., et al. [1995,eng] 50-1205
- Concrete durability in Iceland. Idorn, G.M., [1988,eng] 50-4228
- Concrete mixture proportioning techniques for remote Alaskan locations. Nichols, M.R., et al. [1995,eng] 50-2671
- Creep, shrinkage, frost, and sulphate resistance of high strength concrete. Ghosh, S., et al. [1995,eng] 50-577
- Dynamic modulus of elasticity and durability of no-fines concrete. Tamai, M., et al. [1995,eng] 50-2683
- Freeze-thaw durability of lightweight aggregate concretes. Roberts, J.M., [1995,eng] 50-2626
- Freezing and thawing of lightweight concrete. Hoff, G.C., [1995,eng] 50-2625
- Freezing point depression of water in concrete aggregates. Saito, M.A., et al. [1995,eng] 50-2634
- Frost resistance and freezable water in high strength concrete. Nili, M., et al. [1995,eng] 50-2632
- Frost resistance of concrete canals in Turkey. Tosun, H., [1995,eng] 50-2665
- Frost resistance of roller-compacted high-volume fly ash concrete. Pigeon, M., et al. [1995,eng] 50-1466
- High performance slag ash concrete. Pavlenko, S.I., [1995,eng] 50-2680
- Influence of the properties of porous media on the durability of frozen calcareous rocks. Bellanger, M., et al. [1996,eng] 50-4862
- Mechanism of deterioration of concrete under severe environment. Podvalnyi, A.M., [1995,eng] 50-2686
- Microstructure durability of concretes exposed to arctic conditions. Sarkar, S.L., et al. [1995,eng] 50-2664
- Protection against chloride-induced corrosion. Berke, N.S., et al. [1988,eng] 50-4229
- Quantitative cold differential thermal analysis. Dunn, J.R., et al. [1965,eng] 50-4739
- Skid resistance of asphalt concrete pavements. Abe, A., et al. [1994,jpn] 50-2830
- Wear resistant concrete for pavements. Pedersen, N., [1988,eng] 50-4227
- Concrete curing**
- Belite-based low-heat cement for low temperature environments. Hirose, S., et al. [1995,eng] 50-2652
- Concrete/reinforcing steel bond strength of low-temperature concrete. Schroeder, H.P., et al. [1996,eng] 50-4757
- Effect of de-icing salts on frost damage of high-strength concrete. Miura, T., et al. [1995,eng] 50-2639
- Energetically modified cement (EMC) for high performance concrete in winter concreting. Ronin, V., et al. [1995,eng] 50-2666
- Freeze-thaw durability of concrete cured below 0°C using anti-freeze admixtures. Mason, M.R., et al. [1996,eng] 50-6122
- Freeze-thaw durability of lightweight aggregate concretes. Roberts, J.M., [1995,eng] 50-2626
- Frost durability of high flowing concrete using fine mineral powders. Khanzadi, M., et al. [1995,eng] 50-2629
- Frost resistance and freezable water in high strength concrete. Nili, M., et al. [1995,eng] 50-2632
- Frost-resistant autoclaved lightweight concrete. Hama, Y., et al. [1993,jpn] 50-3484

Concrete durability

- High-performance concrete: low-heat and high-strength. Sakai, K., et al. [1994,eng] 50-2766
- Improvement of surface layer strength of concrete by using a special curing sheet. Sugawara, T., et al. [1992,eng] 50-2760
- Properties of belite type low-heat cement at low temperatures. Igarashi, H., et al. [1995,eng] 50-2651
- Properties of concrete with highly pulverized blast-furnace slag. Wakasugi, S., et al. [1995,eng] 50-2650
- Roller compacted concrete for a cold region dam. Yasunaka, S., et al. [1995,eng] 50-2679
- Study on thermos curing of concrete under winter conditions in Bulgaria. Valev, V., et al. [1995,eng] 50-2667
- Temperature influence on concrete structures and its hardening. Krylov, B.A., et al. [1995,eng] 50-2668
- Concrete durability**
- Alteration of C-S-H and ASR gels in deteriorated concretes, Newfoundland, Canada. Katayama, T., et al. [1995,eng] 50-2676
- Annual variation of the temperature field in a concrete dam. Daoud, M., et al. [1996,eng] 50-6439
- Assessing freezing and thawing resistance of concrete. El-Korchi, T., et al. [1995,eng] 50-2619
- Assessment of frost damage of concrete and its repair technique. Tsukinaga, Y., et al. [1995,eng] 50-2673
- Carbon fiber-reinforced concrete. Chen, P.W., [1994,eng] 50-685
- Cathodic protection in North America: field results in high and low temperature environments. Bennett, J.E., et al. [1995,eng] 50-2661
- Cement type and freeze-thaw resistance of concrete. Stark, J., et al. [1995,eng] 50-2637
- Characterization of mortars as surface repair materials. Mirza, J., [1992,eng] 50-2759
- Chemical attack of de-icing salts on portland cement concrete. Sasatani, T., et al. [1995,eng] 50-2678
- Chloride problems in UK highway structures. Mawhinney, M., [1995,eng] 50-2660
- Combined effect of acid and deicer solutions on fiber-reinforced hardened cement pastes. Fujii, T., [1995,eng] 50-2677
- Concrete durability in Iceland. Idorn, G.M., [1988,eng] 50-4228
- Concrete pavements in tunnels. Berg, J.S., et al. [1996,eng] 50-6182
- Concrete scaling from deicing salts. Johnston, C.D., [1995,eng] 50-2641
- Concrete surface scaling during freeze thaw tests. Kaufmann, J., et al. [1995,eng] 50-2621
- Concrete under severe conditions: environment and loading. Sakai, K., ed. et al. [1995,eng] 50-2618
- Concrete/reinforcing steel bond strength of low-temperature concrete. Schroeder, H.P., et al. [1996,eng] 50-4757
- Cracking in mortar due to freezing and thawing. Narita, T., et al. [1995,eng] 50-2674
- Creep, shrinkage, frost, and sulphate resistance of high strength concrete. Ghosh, S., et al. [1995,eng] 50-577
- Deterioration in concrete bridges at the seashore in cold regions. Shoya, M., et al. [1992,eng] 50-2754
- Discussion of paper by Aavik and Chandra. Mather, B., et al. [1995,eng] 50-4501
- Durability cracking from freeze-thaw in concrete. Janssen, D.J., et al. [1986,eng] 50-2801
- Durability of cementitious mortars containing silica fume. Quaresima, R., et al. [1995,eng] 50-2630
- Durability of concrete in cold climates. Pigeon, M., et al. [1995,eng] 50-919
- Durability of microfiber-reinforced mortars. Pigeon, M., et al. [1996,eng] 50-4736
- Durable concrete for northern environments. Gerwick, B.C., Jr., [1996,eng] 50-5950
- Dynamic modulus of elasticity and durability of no-fines concrete. Tamai, M., et al. [1995,eng] 50-2683
- Effect of de-icing salts on frost damage of high-strength concrete. Miura, T., et al. [1995,eng] 50-2639
- Effectiveness of coatings on concrete under freezing and thawing conditions. Sato, T., et al. [1995,eng] 50-2669
- Evaluation of frost action on concrete. Kleiner, V.D., [1996,eng] 50-4367
- Evaluation of the precision of freeze thaw and deicing salt testing by the CDF procedure. Setzer, M.J., et al. [1995,eng] 50-2622
- Fine-grained slag sand and fly ash concrete with higher frost resistance and waterproofness. Pavlenko, S.I., et al. [1992,eng] 50-2758
- Forecasting service life of frost-penetrated concrete. Fagerlund, G., [1996,eng] 50-4788
- Freezable water in portland cement paste. Gress, D.L., et al. [1995,eng] 50-2631
- Freeze-thaw and deicing salt resistance of concrete—basic research and testing. Setzer, M.J., [1995,eng] 50-2620
- Freeze-thaw durability of concrete cured below 0°C using anti-freeze admixtures. Mason, M.R., et al. [1996,eng] 50-6122
- Freeze-thaw durability of lightweight aggregate concretes. Roberts, J.M., [1995,eng] 50-2626
- Freeze-thaw durability testing of oversanded bridge floor concrete. Ouyang, C.S., [1995,eng] 50-4949
- Freeze-thaw studies on concrete structural elements. Ganga Rao, H.V.S., et al. [1993,eng] 50-5053
- Freezing and thawing of lightweight concrete. Hoff, G.C., [1995,eng] 50-2625

Concrete freezing

- Freezing and thawing of non-air-entrained and air-entrained concrete. Li, Y., et al. [1994,eng] 50-2768
- Freezing and thawing resistance of concrete pavers saturated in de-icing chemicals. Ghafoori, N., et al. [1995,eng] 50-2638
- Freezing point depression of water in concrete aggregates. Salcedo, M.A., et al. [1995,eng] 50-2634
- Frost and deicing salt resistance of concrete pavements. Setzer, M.J., et al. [1994,ger] 50-2797
- Frost damage of concrete structures in Hokkaido. Yamashita, H., et al. [1995,eng] 50-2662
- Frost durability of concrete containing viscosity-modifying admixtures. Khayat, K.H., [1995,eng] 50-4500
- Frost durability of high flowing concrete using fine mineral powders. Khanzadi, M., et al. [1995,eng] 50-2629
- Frost durability of high strength concrete: effect of internal cracking on ice formation. Jacobsen, S., et al. [1996,eng] 50-6097
- Frost durability of high strength concretes. Kukko, H., et al. [1995,fin] 50-1158
- Frost durability of high-performance concrete. Marchand, J., et al. [1995,eng] 50-2640
- Frost effects on high strength concrete without air entrainment. Kukko, H., [1995,eng] 50-2627
- Frost resistance and freezable water in high strength concrete. Nili, M., et al. [1995,eng] 50-2632
- Frost resistance of concrete canals in Turkey. Tosun, H., [1995,eng] 50-2665
- Frost resistance of concrete with and without silica fume. Zhou, Y.X., [1994,eng] 50-374
- Frost resistance of high-performance concrete. Polliard, K.J., [1995,eng] 50-4172
- Frost resistance of marine concrete in a cold environment. Ayuta, K., et al. [1995,eng] 50-2663
- Frost resistance of roller-compacted high-volume fly ash concrete. Pigeon, M., et al. [1995,eng] 50-1466
- Frost resistance of surface layer of concrete with permeable sheet. Sugawara, T., et al. [1995,eng] 50-2656
- Frost resistance of surface-coated concrete. Takahashi, J., et al. [1994,jpn] 50-2834
- Frost-resistant autoclaved lightweight concrete. Hama, Y., et al. [1993,jpn] 50-3484
- High performance slag ash concrete. Pavlenko, S.I., [1995,eng] 50-2680
- High strength concrete—freeze/thaw testing and cracking. Jacobsen, S., et al. [1995,eng] 50-3700
- High-performance concrete incorporating large volumes of ASTM Class F fly ash. Bilodeau, A., et al. [1994,eng] 50-2765
- High-strength concrete containing silica fume. Torii, K., et al. [1994,eng] 50-2767
- Highly elastic surface coating to protect structures exposed to coastal/marine environments. Swamy, R.N., et al. [1992,eng] 50-2753
- Ice propagation in concrete. Wang, K., et al. [1995,eng] 50-2633
- Improvement of surface layer strength of concrete by using a special curing sheet. Sugawara, T., et al. [1992,eng] 50-2760
- Influence of the properties of porous media on the durability of frozen calcareous rocks. Bellanger, M., et al. [1996,eng] 50-4862
- Low temperature behaviour of CFRP prestressed concrete beams. Bryan, P.E., et al. [1996,eng] 50-5811
- Low temperature cracking and rutting in asphalt concrete pavements. Vinson, T.S., et al. [1996,eng] 50-6192
- Mechanism of deterioration of concrete under severe environment. Podval'nyi, A.M., [1995,eng] 50-2686
- Mechanistic design of asphalt concrete pavements in cold regions. Vinson, T.S., et al. [1996,eng] 50-6191
- Micromechanical study on deterioration of concrete due to freezing and thawing. Hori, M., et al. [1995,eng] 50-2684
- Microstructure durability of concretes exposed to arctic conditions. Sarkar, S.L., et al. [1995,eng] 50-2664
- Migrating corrosion inhibitors for reinforced concrete. Miksic, B., et al. [1996,eng] 50-5947
- Mix design of air-entrained, high-performance concrete. Lessard, M., et al. [1995,eng] 50-2670
- Moisture uptake and service life of concrete exposed to frost. Fagerlund, G., [1995,eng] 50-2635
- Nondestructive evaluation of deteriorated concrete structures. Ohtsu, M., et al. [1995,eng] 50-2672
- Pavement repairs with metallic glass fiber reinforced concrete. Granju, J.L., et al. [1992,eng] 50-2755
- Performance of high early strength concrete under freeze-thaw conditions. Hossain, M., et al. [1995,eng] 50-2628
- Proceedings. ACI International Conference on Evaluation and Rehabilitation of Concrete Structures and Innovations in Design. Hong Kong, Dec. 2-6, 1991. [1992,eng] 50-2752
- Rapid freeze/thaw testing of concrete—pore structure changes by cracking and healing. Jacobsen, S., et al. [1995,eng] 50-2624
- Rapid hardening additive of chloride-free under low temperature environments. Ashida, M., et al. [1995,eng] 50-2642
- Recommendations for concrete slab freeze-thaw testing. Réunion Internationale des Laboratoires d'Essais et de Recherches sur les Matériaux et les Constructions, [1995,eng] 50-1085
- Repair measures for deteriorated abutments and piers due to frost damage. Tsutsumi, Y., et al. [1995,eng] 50-2659
- Restoration of Kakabeka Falls, Ontario, Canada. Grieve, R.G., et al. [1992,eng] 50-2763

- Self healing of high strength concrete after deterioration by freeze/thaw. Jacobsen, S., et al. [1996,eng] 50-3725
- SEM observations of the microstructure of frost deteriorated and self-healed concretes. Jacobsen, S., et al. [1995,eng] 50-3701
- Some behaviour of frost resistance of water permeable concrete. Tokushige, H., et al. [1995,eng] 50-2681
- Special light weight concrete—resistance to rebar corrosion and salt/frost scaling. Havdahl, J., et al. [1995,eng] 50-2658
- Studies of methods to assess the quality of the surface layer of concrete. Tsukinaga, Y., et al. [1992,eng] 50-2761
- Studies of shotcrete using ultra rapid hardening cement, steel fiber, and silica fume. Masuda, Y., et al. [1992,eng] 50-2756
- Study of concrete bridges exposed to deicing salts. Novokshchenov, V., [1989,eng] 50-4225
- Superplasticizer dosage effects on concrete frost resistance. Gagné, R., et al. [1996,eng] 50-5922
- Testing methods and frost resistance standardization of concrete. Ivanov, F.M., [1995,eng] 50-2623
- Use of a new glass-fiber rod as reinforcement for concrete structures. Chaallal, O., et al. [1992,eng] 50-2757
- Wear resistance of concrete pavements to studded tires. Hultqvist, B.A., et al. [1996,swe] 50-3847
- Wear resistance of concrete under low temperature. Horiguchi, T., [1995,eng] 50-2657
- Wear resistant concrete for pavements. Pedersen, N., [1988,eng] 50-4227
- Concrete freezing**
- Annual variation of the temperature field in a concrete dam. Daoud, M., et al. [1996,eng] 50-6439
- Assessing freezing and thawing resistance of concrete. El-Korchi, T., et al. [1995,eng] 50-2619
- Assessment of frost damage of concrete and its repair technique. Tsukinaga, Y., et al. [1995,eng] 50-2673
- Basic properties of expansive admixture with anti-freezing admixture in a grout. Nakamura, H., et al. [1995,eng] 50-2643
- Bond between a reinforcement bar and concrete at low temperatures. Vandewalle, L., [1995,eng] 50-2687
- Cement type and freeze-thaw resistance of concrete. Stark, J., et al. [1995,eng] 50-2637
- Concrete surface scaling during freeze thaw tests. Kaufmann, J., et al. [1995,eng] 50-2621
- Concrete under severe conditions: environment and loading. Sakai, K., ed. et al. [1995,eng] 50-2618
- Cracking in mortar due to freezing and thawing. Narita, T., et al. [1995,eng] 50-2674
- Development of high-range antifreezing, water-reducing agent. Saitoh, K., et al. [1995,eng] 50-2645
- Durability of cementitious mortars containing silica fume. Quaresima, R., et al. [1995,eng] 50-2630
- Durability of concrete in cold climates. Pigeon, M., et al. [1995,eng] 50-919
- Durable concrete for northern environments. Gerwick, B.C., Jr., [1996,eng] 50-5950
- Effect of de-icing salts on frost damage of high-strength concrete. Miura, T., et al. [1995,eng] 50-2639
- Effect of freezing on the electric conductivity and dielectric constant of portland cement. Olson, R.A., et al. [1995,eng] 50-368
- Effect of pumping on entrained air voids: role of pressure. Janssen, D.J., et al. [1995,eng] 50-2636
- Effectiveness of coatings on concrete under freezing and thawing conditions. Sato, T., et al. [1995,eng] 50-2669
- Evaluation of the precision of freeze thaw and deicing salt testing by the CDF procedure. Setzer, M.J., et al. [1995,eng] 50-2622
- Fine-grained slag sand and fly ash concrete with higher frost resistance and waterproofness. Pavlenko, S.I., et al. [1992,eng] 50-2758
- Forecasting service life of frost-penetrated concrete. Fagerlund, G., [1996,eng] 50-4788
- Freezable water in portland cement paste. Gress, D.L., et al. [1995,eng] 50-2631
- Freeze-thaw and deicing salt resistance of concrete—basic research and testing. Setzer, M.J., [1995,eng] 50-2620
- Freeze-thaw durability of concrete cured below 0°C using anti-freeze admixtures. Mason, M.R., et al. [1996,eng] 50-6122
- Freeze-thaw durability of lightweight aggregate concretes. Roberts, J.M., [1995,eng] 50-2626
- Freezing and thawing of lightweight concrete. Hoff, G.C., [1995,eng] 50-2625
- Freezing and thawing of non-air-entrained and air-entrained concrete. Li, Y., et al. [1994,eng] 50-2768
- Freezing and thawing resistance of concrete pavers saturated in de-icing chemicals. Ghafoori, N., et al. [1995,eng] 50-2638
- Freezing point depression of water in concrete aggregates. Salcedo, M.A., et al. [1995,eng] 50-2634
- Frost and deicing salt resistance of concrete pavements. Setzer, M.J., et al. [1994,ger] 50-2797
- Frost damage of concrete structures in Hokkaido. Yamashita, H., et al. [1995,eng] 50-2662
- Frost durability of high flowing concrete using fine mineral powders. Khanzadi, M., et al. [1995,eng] 50-2629
- Frost durability of high strength concretes. Kukko, H., et al. [1995,fin] 50-1158
- Frost durability of high-performance concrete. Marchand, J., et al. [1995,eng] 50-2640
- Frost effects on high strength concrete without air entrainment. Kukko, H., [1995,eng] 50-2627

Concrete hardening

- Frost resistance and freezable water in high strength concrete. Nili, M., et al. [1995.eng] 50-2632
- Frost resistance of concrete canals in Turkey. Tosun, H., [1995.eng] 50-2665
- Frost resistance of concrete with and without silica fume. Zhou, Y.X., [1994.eng] 50-374
- Frost resistance of high-performance concrete. Folliard, K.J., [1995.eng] 50-4172
- Frost resistance of marine concrete in a cold environment. Ayuta, K., et al. [1995.eng] 50-2663
- Frost resistance of surface layer of concrete with permeable sheet. Sugawara, T., et al. [1995.eng] 50-2656
- Frost resistance of surface-coated concrete. Takahashi, J., et al. [1994.jpn] 50-2834
- Frost-resistant autoclaved lightweight concrete. Hama, Y., et al. [1993.jpn] 50-3484
- Ice propagation in concrete. Wang, K., et al. [1995.eng] 50-2633
- Material properties, specifications and testing for pavements in cold regions. Chamberlain, E.J., et al. [1996.eng] 50-6195
- Means of testing porous materials for frost resistance. Shapranov, V.M., [1992.rus] 50-1918
- Micromechanical study on deterioration of concrete due to freezing and thawing. Hori, M., et al. [1995.eng] 50-2684
- Microstructural features of freeze-thaw deterioration of concrete. Bakharev, T., et al. [1995.eng] 50-367
- Microstructure durability of concretes exposed to arctic conditions. Sarkar, S.L., et al. [1995.eng] 50-2664
- Minimum thermal protection for cold weather masonry. Korhonen, C.J., et al. [1996.eng] 50-6118
- Modeling of ice thickness in manure pits. Carrier, D., et al. [1995.fre] 50-5658
- Moisture uptake and service life of concrete exposed to frost. Fagerlund, G., [1995.eng] 50-2635
- Performance of high-early strength concrete under freeze-thaw conditions. Hossain, M., et al. [1995.eng] 50-2628
- Pore structure in concrete at low temperatures. Matala, S.P., [1995.eng] 50-2675
- Rapid freeze/thaw testing of concrete—pore structure changes by cracking and healing. Jacobsen, S., et al. [1995.eng] 50-2624
- Raw mixture for preparing concrete. Nikonova, N.S., et al. [1992.rus] 50-1946
- Repair measures for deteriorated abutments and piers due to frost damage. Tsutsumi, Y., et al. [1995.eng] 50-2659
- Some behaviour of frost resistance of water permeable concrete. Tokushige, H., et al. [1995.eng] 50-2681
- Special light weight concrete—resistance to rebar corrosion and salt/frost scaling. Havdahl, J., et al. [1995.eng] 50-2658
- Strength and toughness of fiber reinforced concrete at low temperatures. Banthia, N., et al. [1995.eng] 50-2685
- Strength development of setting accelerated concrete under low temperature environment. Anazawa, M., et al. [1995.eng] 50-2644
- Testing methods and frost resistance standardization of concrete. Ivanov, F.M., [1995.eng] 50-2623
- Concrete hardening**
- Aging and low-temperature cracking of asphalt concrete mixture. Kliever, J.E., et al. [1996.eng] 50-6426
- Antifreezes and frost resistance of concrete at early ages. Hama, Y., et al. [1995.eng] 50-2682
- Belite-based low-heat cement for low temperature environments. Hirose, S., et al. [1995.eng] 50-2652
- Concrete/reinforcing steel bond strength of low-temperature concrete. Schroeder, H.P., et al. [1996.eng] 50-4757
- Effects of superplasticizers on the properties of cement mortar in cold environments. Sugiyama, M., et al. [1995.eng] 50-2648
- Energetically modified cement (EMC) for high performance concrete in winter concreting. Ronin, V., et al. [1995.eng] 50-2666
- High-strength concrete for low temperature environment by using silica fume. Amaya, T., et al. [1995.eng] 50-2649
- Low-heat high-strength concrete using admixtures in a low temperature environment. Horibe, K., et al. [1995.eng] 50-2646
- Low-heat high-strength superplasticized concrete. Arashima, T., et al. [1995.eng] 50-2647
- Properties of belite type low-heat cement at low temperatures. Igarashi, H., et al. [1995.eng] 50-2651
- Properties of concrete with highly pulverized blast-furnace slag. Wakasugi, S., et al. [1995.eng] 50-2650
- Rapid hardening additive of chloride-free under low temperature environments. Ashida, M., et al. [1995.eng] 50-2642
- Strength development of setting accelerated concrete under low temperature environment. Anazawa, M., et al. [1995.eng] 50-2644
- Studies of shotcrete using ultra rapid hardening cement, steel fiber, and silica fume. Masuda, Y., et al. [1992.eng] 50-2756
- Temperature influence on concrete structures and its hardening. Krylov, B.A., et al. [1995.eng] 50-2668
- Concrete heating**
- Study on thermos curing of concrete under winter conditions in Bulgaria. Valev, V., et al. [1995.eng] 50-2667
- Temperature influence on concrete structures and its hardening. Krylov, B.A., et al. [1995.eng] 50-2668
- Concrete pavements**
- Aging and low-temperature cracking of asphalt concrete mixture. Kliever, J.E., et al. [1996.eng] 50-6426
- Concrete pavements in tunnels. Berg, J.S., et al. [1996.eng] 50-6182

- Durability cracking from freeze-thaw in concrete. Janssen, D.J., et al. [1986.eng] 50-2801
- Freezing and thawing resistance of concrete pavers saturated in de-icing chemicals. Ghafoori, N., et al. [1995.eng] 50-2638
- Frost and deicing salt resistance of concrete pavements. Setzer, M.J., et al. [1994.ger] 50-2797
- High performance slag ash concrete. Pavlenko, S.I., [1995.eng] 50-2680
- Low temperature cracking and rutting in asphalt concrete pavements. Vinson, T.S., et al. [1996.eng] 50-6192
- Material properties, specifications and testing for pavements in cold regions. Chamberlain, E.J., et al. [1996.eng] 50-6195
- Mechanistic design of asphalt concrete pavements in cold regions. Vinson, T.S., et al. [1996.eng] 50-6191
- Northern climate weathering tests on sealed concrete. Chang, L.M., [1996.eng] 50-6119
- Pavement repairs with metallic glass fiber reinforced concrete. Granju, J.L., et al. [1992.eng] 50-2755
- Performance of high-early strength concrete under freeze-thaw conditions. Hossain, M., et al. [1995.eng] 50-2628
- Skid resistance of asphalt concrete pavements. Abe, A., et al. [1994.jpn] 50-2830
- Wear resistance of concrete pavements to studded tires. Hultqvist, B.A., et al. [1996.swe] 50-3847
- Wear resistant concrete for pavements. Pedersen, N., [1988.eng] 50-4227
- Concrete piles**
- Tangential frost heave forces on reinforced concrete piles. Sun, Y.L., et al. [1989.chi] 50-1363
- Concrete placing**
- Assessment of frost damage of concrete and its repair technique. Tsukinaga, Y., et al. [1995.eng] 50-2673
- Effect of pumping on entrained air voids: role of pressure. Janssen, D.J., et al. [1995.eng] 50-2636
- Pavement repairs with metallic glass fiber reinforced concrete. Granju, J.L., et al. [1992.eng] 50-2755
- Performance of high-early strength concrete under freeze-thaw conditions. Hossain, M., et al. [1995.eng] 50-2628
- See [also]: Winter concreting
- Concrete slabs**
- Concrete pavements in tunnels. Berg, J.S., et al. [1996.eng] 50-6182
- Energy saving building systems based on advanced hollow core slab technology. Kajava, A., [1984.eng] 50-3160
- Floating slabs for unheated buildings. Crory, F.E., [1987.eng] 50-3757
- Freeze-thaw durability testing of oversanded bridge floor concrete. Ouyang, C.S., [1995.eng] 50-4949
- Freeze-thaw studies on concrete structural elements. Ganga Rao, H.V.S., et al. [1993.eng] 50-5053
- Low temperature behaviour of CFRP prestressed concrete beams. Bryan, P.E., et al. [1996.eng] 50-5811
- Northern climate weathering tests on sealed concrete. Chang, L.M., [1996.eng] 50-6119
- Preventing frost damage to irrigation canals by geotextile. Chen, L., et al. [1996.eng] 50-6167
- Recommendations for concrete slab freeze-thaw testing. Réunion Internationale des Laboratoires d'Essais et de Recherches sur les Matériaux et les Constructions. [1995.eng] 50-1085
- Shock absorption using reinforced concrete slab. Mikami, H., et al. [1995.eng] 50-2689
- Concrete strength**
- Aging and low-temperature cracking of asphalt concrete mixture. Kliever, J.E., et al. [1996.eng] 50-6426
- Antifreezes and frost resistance of concrete at early ages. Hama, Y., et al. [1995.eng] 50-2682
- Assessment of frost damage of concrete and its repair technique. Tsukinaga, Y., et al. [1995.eng] 50-2673
- Basic properties of expansive admixture with anti-freezing admixture in a grout. Nakamura, H., et al. [1995.eng] 50-2643
- Belite-based low-heat cement for low temperature environments. Hirose, S., et al. [1995.eng] 50-2652
- Bond between a reinforcement bar and concrete at low temperatures. Vandewalle, L., [1995.eng] 50-2687
- Carbon fiber-reinforced concrete. Chen, P.W., [1994.eng] 50-685
- Characterization of mortars as surface repair materials. Mirza, J., [1992.eng] 50-2759
- Concrete under severe conditions: environment and loading. Sakai, K., ed. et al. [1995.eng] 50-2618
- Cracking in mortar due to freezing and thawing. Narita, T., et al. [1995.eng] 50-2674
- Creep, shrinkage, frost, and sulphate resistance of high strength concrete. Ghosh, S., et al. [1995.eng] 50-577
- Development of high-range antifreezing, water-reducing agent. Saitoh, K., et al. [1995.eng] 50-2645
- Durability of microfiber-reinforced mortars. Pigeon, M., et al. [1996.eng] 50-4736
- Dynamic modulus of elasticity and durability of no-fines concrete. Tamai, M., et al. [1995.eng] 50-2683
- Effect of de-icing salts on frost damage of high-strength concrete. Miura, T., et al. [1995.eng] 50-2639
- Effects of superplasticizers on the properties of cement mortar in cold environments. Sugiyama, M., et al. [1995.eng] 50-2648
- Energetically modified cement (EMC) for high performance concrete in winter concreting. Ronin, V., et al. [1995.eng] 50-2666

Concrete strength

- Experimental study on abrasion of various concretes due to ice movement. Itoh, Y., et al. [1992.eng] 50-2762
- Fine-grained slag sand and fly ash concrete with higher frost resistance and waterproofness. Pavlenko, S.I., et al. [1992.eng] 50-2758
- Fracture of fiber reinforced concrete under impact. Banthia, N., et al. [1995.eng] 50-2691
- Freeze-thaw durability of concrete cured below 0°C using anti-freeze admixtures. Mason, M.R., et al. [1996.eng] 50-6122
- Freeze-thaw studies on concrete structural elements. Ganga Rao, H.V.S., et al. [1993.eng] 50-5053
- Freezing and thawing of lightweight concrete. Hoff, G.C., [1995.eng] 50-2625
- Freezing and thawing of non-air-entrained and air-entrained concrete. Li, Y., et al. [1994.eng] 50-2768
- Freezing and thawing resistance of concrete pavers saturated in de-icing chemicals. Ghafoori, N., et al. [1995.eng] 50-2638
- Frost and deicing salt resistance of concrete pavements. Setzer, M.J., et al. [1994.ger] 50-2797
- Frost durability of high flowing concrete using fine mineral powders. Khanzadi, M., et al. [1995.eng] 50-2629
- Frost durability of high strength concretes. Kukko, H., et al. [1995.fin] 50-1158
- Frost durability of high-performance concrete. Marchand, J., et al. [1995.eng] 50-2640
- Frost effects on high strength concrete without air entrainment. Kukko, H., [1995.eng] 50-2627
- Frost resistance and freezable water in high strength concrete. Nili, M., et al. [1995.eng] 50-2632
- Frost resistance of concrete with and without silica fume. Zhou, Y.X., [1994.eng] 50-374
- Frost resistance of high-performance concrete. Folliard, K.J., [1995.eng] 50-4172
- Frost resistance of surface layer of concrete with permeable sheet. Sugawara, T., et al. [1995.eng] 50-2656
- Full scale impact test of PC rock-shed with shock absorbing system. Sato, M., et al. [1995.eng] 50-2688
- Full scale test on impact resistance of PC girder. Sato, M., et al. [1995.eng] 50-2690
- High performance slag ash concrete. Pavlenko, S.I., [1995.eng] 50-2680
- High strength concrete—freeze/thaw testing and cracking. Jacobsen, S., et al. [1995.eng] 50-3700
- High-performance concrete incorporating large volumes of ASTM Class F fly ash. Bloddeau, A., et al. [1994.eng] 50-2765
- High-performance concrete: low-heat and high-strength. Sakai, K., et al. [1994.eng] 50-2766
- High-strength concrete containing silica fume. Torii, K., et al. [1994.eng] 50-2767
- High-strength concrete for low temperature environment by using silica fume. Amaya, T., et al. [1995.eng] 50-2649
- Improvement of surface layer strength of concrete by using a special curing sheet. Sugawara, T., et al. [1992.eng] 50-2760
- Low temperature cracking and rutting in asphalt concrete pavements. Vinson, T.S., et al. [1996.eng] 50-6192
- Low-heat high-strength concrete using admixtures in a low temperature environment. Horibe, K., et al. [1995.eng] 50-2646
- Low-heat high-strength superplasticized concrete. Arashima, T., et al. [1995.eng] 50-2647
- Low-temperature period countermeasures during concrete jacking of the Satsunagawa Dam. Yasunaka, S., et al. [1995.jpn] 50-6737
- Mechanism of deterioration of concrete under severe environment. Podvalnyi, A.M., [1995.eng] 50-2686
- Mechanism of the abrasion of concrete structures due to the movement of ice sheets. Ito, Y., et al. [1995.eng] 50-2653
- Mechanistic design of asphalt concrete pavements in cold regions. Vinson, T.S., et al. [1996.eng] 50-6191
- Micromechanical study on deterioration of concrete due to freezing and thawing. Hori, M., et al. [1995.eng] 50-2684
- Microstructural features of freeze-thaw deterioration of concrete. Bakharev, T., et al. [1995.eng] 50-367
- Minimum thermal protection for cold weather masonry. Korhonen, C.J., et al. [1996.eng] 50-6118
- Mix design of air-entrained, high-performance concrete. Lessard, M., et al. [1995.eng] 50-2670
- Nondestructive evaluation of deteriorated concrete structures. Ohtsu, M., et al. [1995.eng] 50-2672
- Performance of high-early strength concrete under freeze-thaw conditions. Hossain, M., et al. [1995.eng] 50-2628
- Predicting abrasion of bridge piers by ice. Hara, F., et al. [1995.eng] 50-2655
- Proceedings. ACI International Conference on Evaluation and Rehabilitation of Concrete Structures and Innovations in Design. Hong Kong, Dec. 2-6, 1991, [1992.eng] 50-2752
- Production of high-strength concrete for the Hibernia offshore concrete platform. Hoff, G.C., et al. [1994.eng] 50-2764
- Properties of belite type low-heat cement at low temperatures. Igarashi, H., et al. [1995.eng] 50-2651
- Properties of concrete with highly pulverized blast-furnace slag. Wakasugi, S., et al. [1995.eng] 50-2650
- Rapid hardening additive of chloride-free under low temperature environments. Ashida, M., et al. [1995.eng] 50-2642
- Repair measures for deteriorated abutments and piers due to frost damage. Tsutsumi, Y., et al. [1995.eng] 50-2659
- Restoration of Kakabeka Falls, Ontario, Canada. Grieve, R.G., et al. [1992.eng] 50-2753
- Roller compacted concrete for a cold region dam. Yasunaka, S., et al. [1995.eng] 50-2679

Concrete structures

- Self healing of high strength concrete after deterioration by freeze/thaw. Jacobsen, S., et al. [1996,eng] 50-3725
- SEM observations of the microstructure of frost deteriorated and self-healed concretes. Jacobsen, S., et al. [1995,eng] 50-3701
- Shock absorption using reinforced concrete slab. Mikami, H., et al. [1995,eng] 50-2689
- Special light weight concrete—resistance to rebar corrosion and salt/frost scaling. Havdahl, J., et al. [1995,eng] 50-2658
- Strength and toughness of fiber reinforced concrete at low temperatures. Banthia, N., et al. [1995,eng] 50-2685
- Strength development of setting accelerated concrete under low temperature environment. Anazawa, M., et al. [1995,eng] 50-2644
- Strengthening and reinforcing concrete with composites. Dutta, P.K., et al. [1995,eng] 50-2467
- Studies of methods to assess the quality of the surface layer of concrete. Tsukinaga, Y., et al. [1992,eng] 50-2761
- Studies of shotcrete using ultra rapid hardening cement, steel fiber, and silica fume. Masuda, Y., et al. [1992,eng] 50-2756
- Study on thermos curing of concrete under winter conditions in Bulgaria. Valev, V., et al. [1995,eng] 50-2667
- Sulphur concrete for use in cold regions. Vroom, A.H., [1984,eng] 50-3159
- Superplasticizer dosage effects on concrete frost resistance. Gagné, R., et al. [1996,eng] 50-5922
- Temperature influence on concrete structures and its hardening. Krylov, B.A., et al. [1995,eng] 50-2668
- Test methods for abrasion of concrete structures by ice. Hara, F., et al. [1995,eng] 50-2654
- Use of a new glass-fiber rod as reinforcement for concrete structures. Chaalal, O., et al. [1992,eng] 50-2757
- Wear resistance of concrete under low temperature. Horiguchi, T., [1995,eng] 50-2657
- Concrete structures**
- Abrasion mode of a circular cylindrical concrete structure due to sea ice movement. Itoh, Y., et al. [1995,eng] 50-191
- Abrasion of various kinds of stones due to a movement of ice sheet. Hanada, M., et al. [1996,jpn] 50-5884
- Concrete durability in Iceland. Idorn, G.M., [1988,eng] 50-4228
- Concrete TLP to sit out Barents bergs. Contrill, A., [1990,eng] 50-3866
- Environmental loading studies for the CSA Offshore Structures Code. Allyn, N., et al. [1995,eng] 50-1411
- Experimental study on abrasion of various concretes due to ice movement. Itoh, Y., et al. [1992,eng] 50-2762
- Full scale impact test of PC rock-shed with shock absorbing system. Sato, M., et al. [1995,eng] 50-2688
- Full scale test on impact resistance of PC girder. Sato, M., et al. [1995,eng] 50-2690
- Highly elastic surface coating to protect structures exposed to coastal/marine environments. Swamy, R.N., et al. [1992,eng] 50-2753
- Low temperature behaviour of CFRP prestressed concrete beams. Bryan, P.E., et al. [1996,eng] 50-5811
- Low-temperature period countermeasures during concrete jacking of the Satsunagawa Dam. Yasunaka, S., et al. [1995,jpn] 50-6737
- Mechanism of the abrasion of concrete structures due to the movement of ice sheets. Ito, Y., et al. [1995,eng] 50-2653
- Modeling of ice thickness in manure pits. Carrier, D., et al. [1995,fre] 50-5658
- Offshore development in iceberg-infested waters with the use of a concrete protective barrier. Broughton, P., et al. [1991,eng] 50-1731
- Predicting abrasion of bridge piers by ice. Hara, F., et al. [1995,eng] 50-2655
- Proceedings. ACI International Conference on Evaluation and Rehabilitation of Concrete Structures and Innovations in Design. Hong Kong, Dec. 2-6, 1991. [1992,eng] 50-2752
- Protection against chloride-induced corrosion. Berke, N.S., et al. [1988,eng] 50-4229
- Shock absorption using reinforced concrete slab. Mikami, H., et al. [1995,eng] 50-2689
- Study of concrete bridges exposed to deicing salts. Novokshchenov, V., [1989,eng] 50-4225
- Test methods for abrasion of concrete structures by ice. Hara, F., et al. [1995,eng] 50-2654
- Thermal protection of concrete dams subject to freeze-thaw cycles. Léger, P., et al. [1995,eng] 50-576
- Underground fuel tanks for Alaska. Freas, G.C., [1991,eng] 50-4226
- Western Conference, 1996. Controlling corrosion in northern latitudes. National Association of Corrosion Engineers (NACE) International, Houston, TX. Canadian Region, [1996,eng] 50-5945
- Concretes**
- Raw mixture for preparing concrete. Nikonova, N.S., et al. [1992,rus] 50-1946
- Strength of composite ice-resisting walls subjected to combined loads. Stephens, M.J., et al. [1990,eng] 50-95
- See [also]: Bituminous concretes; Cellular concretes; Lightweight concretes; Precast concretes; Prestressed concretes; Reinforced concretes
- Condensation**
- Condensation of cometary ice analogs. Patnaik, A., et al. [1996,eng] 50-6222
- Condensation on cooled surfaces of optical devices at the cosmic conditions. Drobyshev, A., et al. [1992,eng] 50-624

- Cosmoglaciology: evolution of ice in interstellar space and the early solar system. Kouchi, A., et al. [1995,eng] 50-1030
- Denitrification of the polar winter stratosphere. Hamill, P., et al. [1990,eng] 50-6000
- First observational evidence for condensation of Io's SO₂ atmosphere on the nightside. Buratti, B.J., et al. [1995,eng] 50-2154
- Formation of condensates on dust in interstellar clouds. Duley, W.W., et al. [1995,eng] 50-3290
- Formation of nitric acid hydrates—a chemical equilibrium approach. Smith, R.H., [1990,eng] 50-4728
- Growth of acidic polar stratospheric aerosols. Hamill, P., et al. [1996,eng] 50-4311
- Heterogeneous atmospheric bromine chemistry. Lary, D.J., et al. [1996,eng] 50-3019
- Impact of heterogeneous reactions on stratospheric chemistry of the Arctic. Douglass, A.R., et al. [1989,eng] 50-4708
- Laboratory simulation of polar stratospheric cloud formation. Iraci, L.T., et al. [1995,eng] 50-1333
- Lidar observations of polar stratospheric cloud growth. Poole, L.R., et al. [1988,eng] 50-4634
- Low-temperature photochemistry of submicrometer nitric acid and ammonium nitrate layers. Koch, T.G., et al. [1996,eng] 50-6682
- Nitric acid in polar stratospheric clouds. Pueschel, R.F., et al. [1990,eng] 50-5997
- Photodissociation of condensed films of chlorine dioxide. Lanzendorf, E.J., et al. [1996,eng] 50-6679
- Refractive index of vapor-deposited ice. Brown, D.E., et al. [1996,eng] 50-5300
- Rocket-borne spectrometry of arctic stratospheric chemistry. Schlager, H., et al. [1990,eng] 50-5998
- Sounding of aerosol formation in the arctic stratosphere. Hofmann, D.J., et al. [1990,eng] 50-4725
- Sounding of nitric acid aerosol in the arctic stratosphere. Schlager, H., et al. [1990,eng] 50-4724
- Spectroscopy of ices in quiescent cosmic dust clouds. Chiar, J.E., et al. [1995,eng] 50-2779
- Water vapor saturation at low altitudes around Mars aphelion: a key to Mars climate? Clancy, R.T., et al. [1996,eng] 50-5831
- Condensation nuclei**
- Analysis of lidar observations of polar stratospheric clouds. Toon, O.B., et al. [1990,eng] 50-5991
- Arctic stratospheric cloud and temperature variations, 1989. Hofmann, D.J., [1990,eng] 50-5985
- Bursts of cloud condensation nuclei (CCN) by dissipating clouds at Palmer Station, Antarctica. Saxena, V.K., [1996,eng] 50-3602
- Cloud condensation nuclei over the Arctic Ocean in early spring. Hegg, D.A., et al. [1995,eng] 50-348
- Condensation nuclei production in the arctic polar vortex. Wilson, J.C., et al. [1990,eng] 50-5983
- Ice forming nuclei in the high Arctic. Bigg, E.K., [1996,eng] 50-4317
- On snow crystals with small raindrops observed in Greenland. Harimaya, T., et al. [1993,eng] 50-6039
- Overview of the Arctic Ocean Expedition of 1991 (IAOE-91). Leck, C., et al. [1996,eng] 50-4312
- Rain production in convective clouds, pt.2. Reisin, T., et al. [1996,eng] 50-6325
- Sounding of nitric acid aerosol in the arctic stratosphere. Schlager, H., et al. [1990,eng] 50-4724
- Spectra of polar mesospheric noctilucent cloud ice nuclei. Sugiyama, T., et al. [1996,eng] 50-4255
- Sudden changes in arctic atmospheric aerosol concentrations during summer and autumn. Bigg, E.K., et al. [1996,eng] 50-4319
- Ultrafine aerosol presence in the arctic atmospheric boundary layer. Wiedensohler, A., et al. [1996,eng] 50-4316
- Condensation trails**
- Aircraft-generated aerosols and visible contrails. Kärcher, B., [1996,eng] 50-6544
- Ice crystal optical properties of cirrus clouds. Gayet, J.F., et al. [1996,eng] 50-3684
- Reexamination of the formation of exhaust condensation trails by jet aircraft. Hanson, H.M., et al. [1995,eng] 50-1248
- Conduction**
- Adaptation of tree seedlings to subalpine meadow soil moisture variations. Kuuluvainen, T., et al. [1996,eng] 50-4337
- Computer simulation of heat conduction in freezing and thawing soils. Hashemi, H.T., et al. [1966,eng] 50-4605
- Conduction in convecting and radiating fins and fin assemblies. Aziz, A., et al. [1995,eng] 50-2455
- Frost hardness of 16 European provenances of sessile oak growing in Scotland. Deans, J.D., et al. [1996,eng] 50-4329
- Conductivity**
- See [also]: Electrical resistivity; Thermal conductivity
- Conferences**
- See [also]: Meetings
- Conservation**
- See [also]: Environmental impact
- Consolidation**
- See [also]: Settlement (structural); Thaw consolidation
- Construction**
- Arctic infrastructure—the need for dedicated Arctic research support. Piutenger, R.F., [1996,eng] 50-6676
- Device for shaping ice roads. Khan, V.B., et al. [1992,rus] 50-1933
- Diversity of modern antarctic vessels. Mäkinen, E., et al. [1994,eng] 50-4280

- Heerema commits to Siberian gas crossing [1992,eng] 50-4415
- Hibernia edges forward as bidding starts. Fox, C., [1988,eng] 50-4969
- Icebreaker agreement [1992,eng] 50-4413
- New concept of durability of highway construction. Smirnov, A.V., [1995,rus] 50-724
- Probability distributions used in 100-year return period of air-freezing index. Steurer, P.M., [1996,eng] 50-4753
- Technological effects on tundra ecosystems and the recultivation of disturbed territory. Sumina, O.I., [1992,rus] 50-3406
- Underground fuel tanks for Alaska. Freas, G.C., [1991,eng] 50-4226
- See [also]: Cold weather construction; Modular construction
- Construction equipment**
- Construction activities inside of air structures protected from the arctic environment. Mangus, A.R., [1991,eng] 50-1730
- Damage to equipment and structures in the North. Novopashin, M.D., et al. [1993,rus] 50-465
- Device for shaping ice roads. Khan, V.B., et al. [1992,rus] 50-1933
- Environmental evaluation of the rebuilding of Signy Station. British Antarctic Survey, [1990,eng] 50-1546
- Hydromechanization of earthwork under the conditions in the Far East and Siberia. Mel'nikov, I.T., [1995,rus] 50-3077
- Machine for breaking up hard materials. Liublianskii, G.B., et al. [1992,rus] 50-1938
- Pegasus: a glacial-ice runway for wheeled flight operations at McMurdo Station. Blaisdell, G.L., et al. [1995,eng] 50-6501
- Polar hydrocarbon technologies: future developments. Yates, J., et al. [1995,eng] 50-5446
- Study of the technology of supplying sand by powerful bulldozers. Chemezov, N.N., [1992,rus] 50-805
- Construction materials**
- Abrasion of various kinds of stones due to a movement of ice sheet. Hanada, M., et al. [1996,jpn] 50-5884
- Crack filler works well—even in freezing weather. Shorten, R., [1995,eng] 50-1559
- Design guide for frost-protected shallow foundations. NAHB Research Center, [1994,eng] 50-3579
- Development of a mobile garage/vehicle servicing facility, Halley scientific station. Smith, A.L., et al. [1994,eng] 50-4268
- Development of an Alaskan North Slope soils database for drill cuttings reclamation. Schumacher, J.P., et al. [1991,eng] 50-1722
- Development of leading technology in the "MOSTROJ-2" (AOOT "SIBMOST") trust. Karaulov, M.E., [1995,rus] 50-3079
- Development of methods for assessing the frost resistance of clay bricks. Silvenoinen, K., et al. [1995,eng] 50-951
- Durability issues of FRP composites in offshore structures. Dutta, P.K., [1995,eng] 50-217
- Durability of cement-bonded particleboard. De Souza, M.R., [1994,eng] 50-687
- Hopkinson bar perforation of laminated composite. Nwosu, S.N., et al. [1995,eng] 50-2466
- Influence of moisture on FRP composites. Bhattacharya, R.K., et al. [1995,eng] 50-2468
- Influence of the properties of porous media on the durability of frozen calcareous rocks. Bellanger, M., et al. [1996,eng] 50-4862
- Matériel delivery to A-SSP Station. DenHartog, S.L., et al. [1995,eng] 50-1195
- Mechanical behavior of 18 Ni 200 grade maraging steel at cryogenic temperatures. Wagner, J.A., [1986,eng] 50-4101
- Predicting brick frost-resistance. T. Robinson, G.C., et al. [1995,eng] 50-1109
- Prospects for the development of the industrial construction base in the Novosibirsk region. Ageenko, N.N., et al. [1995,rus] 50-3085
- Tests on the thermal behavior of steel in polar conditions (North Geographic Pole). Aguirre-Puente, J., et al. [1990,spa] 50-5528
- See [also]: Bituminous concretes; Bricks; Cellular concretes; Cements; Ceramics; Concretes; Ice (construction material); Insulation; Masonry; Mortars; Panels; Plastics; Plates; Snow (construction material)
- Construction sites**
- See [also]: Site surveys
- Construction standards**
- See [also]: Building codes
- Containers**
- See [also]: Tanks (containers)
- Continental drift**
- Double wedging model for the Qinghai-Xizang Plateau. Zheng, J.D., [1992,chi] 50-1505
- First appearance of Himalayas and its relation to global climatic events. Xu, Q.Q., [1992,chi] 50-1504
- Geotectonic evolution of the Qinghai-Xizang Plateau. Chang, C.F., [1992,chi] 50-1498
- Gondwana stratigraphy in the Qinghai-Xizang Plateau. Yin, J.X., [1992,chi] 50-1503
- Intracontinental subduction zones in the Tibetan Plateau and their magmatism. Deng, W.M., [1992,chi] 50-1499
- New paleontological evidence for continental drift in the Qinghai-Xizang Plateau. Wen, S.X., [1992,chi] 50-1506
- Plate and terrain tectonics of northern Xinjiang. Cao, R.L., et al. [1993,chi] 50-2352
- Plate tectonics and climate change in the Cenozoic. Eldholm, O., et al. [1994,eng] 50-896

Continental ice

Correlation

- Problem on dividing the neotectonic units in Xinjiang. Bai, M.X., [1985,chi] 50-2008
- Proceedings of the first symposium on the Qinghai-Xizang Plateau. China Society of Qinghai-Xizang Plateau Research, Symposium, 1st. Mar. 1990, [1992,chi] 50-1475
- Reconstruction of the late Palaeozoic ice sheet on southwestern Gondwana. Visser, J.N.J., [1993,eng] 50-6318
- Slope valleys in glacialine sediments of the Gulf of Alaska. Carlson, P.R., et al. [1990,eng] 50-922
- Thermal rejuvenation of the Yermak Plateau. Okay, N., et al. [1994,eng] 50-4249
- Vendian glaciations and their relation to the dispersal of Rodinia: paleomagnetic constraints. Torsvik, T.H., et al. [1995,eng] 50-663
- Continental ice**
See [also]: Land ice
- Continuous permafrost**
Effects of hydrology on the thermal conditions of the active layer. Woo, M.K., et al. [1994,eng] 50-5702
- Gas-producing units construction experience in the arctic regions. Zavizion, V.G., [1991,eng] 50-1763
- Multilateral, horizontal wells could access remote Russian oil reserves. Hazen, T., [1996,eng] 50-6575
- Seasonal solute movement in continuous permafrost. Boike, J., et al. [1995,eng] 50-2093
- Contrails**
See [also]: Condensation trails
- Convection**
Advective-diffusive heat transfer in snow. Albert, M.R., [1995,eng] 50-945
- Air convection embankments for roadway construction in permafrost zones. Goering, D.J., [1996,eng] 50-6107
- Arctic Ocean deep water masses in the western Iceland Sea. Buch, E., et al. [1996,eng] 50-5856
- Case study in three-dimensional inverse methods: combining hydrographic, acoustic, and moored thermistor data in the Greenland Sea. Morawitz, W.M.L., et al. [1996,eng] 50-5167
- Comments on "The impact of the ice phase and radiation on a midlatitude squall system". Braun, S.A., et al. [1996,eng] 50-5476
- Conduction in convecting and radiating fins and fin assemblies. Aziz, A., et al. [1995,eng] 50-2455
- Consistent treatment of the evaporation of rain and snow for use in large-scale models. Gregory, D., [1995,eng] 50-353
- Convection and freezing around a cylinder in a saturated medium. Okada, M., et al. [1996,eng] 50-6455
- Convection induced polynyas during the freezing of antarctic seawater. Hadji, L., [1996,eng] 50-6452
- Convective heat transfer of rotating ice spheroids: rough hailstones. Zheng, G.G., et al. [1996,eng] 50-6471
- Convective instability influence on freezing time of warm water. Maciejewski, P.K., [1996,eng] 50-4220
- Deep water formation in the Greenland Sea. Pawlowicz, R.A., et al. [1996,eng] 50-6669
- Development of a regional climate model of the western Arctic. Lynch, A.H., et al. [1995,eng] 50-597
- Direct evidence for northward flow on the northwestern Bering Sea shelf. Overland, J.E., et al. [1996,eng] 50-5266
- Experimental study of freezing of binary solutions. Zampino, M.A., et al. [1991,eng] 50-1243
- Formation and evolution of the surface mixed layer and halocline of the Arctic Ocean. Rudels, B., et al. [1996,eng] 50-5261
- Freezing driven upwelling in antarctic sea ice biological systems. Ackley, S.F., et al. [1996,eng] 50-6032
- Freezing of a salt solution in a packed bed. Chelliah, S., et al. [1996,eng] 50-3909
- Freezing of an aqueous sodium chloride saturated packed bed. Choi, J., et al. [1993,eng] 50-5781
- Heat budget of a midlatitude squall line and implications for potential vorticity production. Braun, S.A., et al. [1996,eng] 50-5475
- Heat flux through Weddell Sea ice cover. Lytle, V.I., et al. [1996,eng] 50-5263
- Heat transfer and convection in an enclosure with a heat-conducting body. Oh, J.Y., et al. [1996,eng] 50-6473
- Heat transfer in an ice-water saturated porous medium. Zhang, X.L., [1993,eng] 50-5782
- Implications of frost heave for patterned ground, Tibet Plateau. China. Wang, B.L., et al. [1995,eng] 50-2808
- Infrasound signatures of a polar low in the Norwegian and Barents Sea on 23-27 March 1992. Ørbæk, J.B., et al. [1995,eng] 50-2026
- Interaction between multiple line plumes: a model study with applications to leads. Ching, C.Y., et al. [1996,eng] 50-4408
- Large eddy simulation of the turbulent flow in a marine convective boundary layer with snow. Rao, G.S., et al. [1996,eng] 50-3683
- Maintaining the thermohaline circulation. Mauritzen, C., et al. [1996,eng] 50-6670
- Melting driven thermohaline convection. Bénard, C., et al. [1996,eng] 50-3611
- Meltwater event in the North Atlantic during last glacial maximum. Seidov, D., et al. [1996,eng] 50-6217
- Mesoscale structures along wind-parallel bands in lake-effect snows. Kristovich, D.A.R., [1993,eng] 50-5249
- Mixing in ice-covered lakes. Bengtsson, L., [1996,eng] 50-6579
- Model of mesoscale motions of ice caused by convective flows. Goldshtein, R.V., et al. [1995,eng] 50-2948
- Modeling climatic sensitivity of European marginal seas. Backhaus, J.O., [1996,eng] 50-4022
- Natural convection for the melting of ice in porous media in a rectangular enclosure. Chang, W.J., et al. [1996,eng] 50-4533
- Numerical case study of a polar low in the Labrador Sea. Mailhot, J., et al. [1996,eng] 50-5869
- Numerical simulation of polar lows. Grønås, S., et al. [1995,eng] 50-2525
- Observational studies and numerical simulations of marine convective boundary layers. Rao, G.S., [1994,eng] 50-673
- Oscillatory convection during melting of ice in a vertical rectangular enclosure. Ho, C.J., et al. [1996,eng] 50-6454
- Paleoceanographic import of Norwegian Sea sediment stratigraphy. Rasmussen, T.L., et al. [1996,eng] 50-5222
- Penetrative convection induced by the freezing of seawater. Hadji, L., et al. [1996,eng] 50-6761
- Periodic auroral events at the high-latitude convection reversal in the 16 MLT region. Sandholt, P.E., et al. [1990,eng] 50-4729
- Polar cap contraction associated with the leading edge of a magnetic cloud. Knipp, D.J., et al. [1996,eng] 50-3071
- Polar lows in the Labrador Sea—a case study. Moore, G.W.K., et al. [1996,eng] 50-3821
- Precipitation sensitivity to cloud microphysical parameters. Liu, Y.Q., et al. [1996,eng] 50-4353
- Preconditioning the Greenland Sea for deep convection: ice formation and ice drift. Visbeck, M., et al. [1995,eng] 50-567
- Processes in the polar cap and magnetosphere in the presence of northern permafrost. Troshichev, O.A., [1991,rus] 50-1634
- Rain production in convective clouds, pt.2. Reisin, T., et al. [1996,eng] 50-6325
- Sea of Okhotsk near-freezing dichothermal layer variations. Yang, J.Y., et al. [1996,eng] 50-6219
- Solution and stability of natural convective snow in a melt puddle. Bogorodskii, P.V., [1995,eng] 50-2067
- Steady-state convection in porous media and snow metamorphism. Klever, N., [1984,ger] 50-3840
- Thermal stratification effects near a vertical ice slab in cold water. Kukulka, D.J., et al. [1993,eng] 50-3361
- Thermohaline circulation of the Arctic Ocean and the Greenland Sea. Rudels, B., [1995,eng] 50-5234
- Three dimensional convective flow around a melting ice cylinder. Oosthuizen, P.H., et al. [1996,eng] 50-6453
- Ultrasonic measurement of melting ice heat transfer coefficients. Bhansali, A.P., et al. [1996,eng] 50-6760
- Unique aircraft icing event—a case study. Peters, J.L., [1990,eng] 50-4404
- Winter-time convection in open-graded embankments. Goering, D.J., et al. [1996,eng] 50-3827
- Coolants**
Coil freezing: what a relief. Jacobs, T.L., [1995,eng] 50-2458
- Cooling**
Big freeze digs a deeper hole in ozone layer. Pearce, F., [1996,eng] 50-4204
- Hudson Bay-Hudson Strait jökulhlaups and Heinrich events: a hypothesis. Johnson, R.G., et al. [1995,eng] 50-354
- Paleovegetation and paleoclimatic changes in the Yukon at 6 ka BP. Cwynar, L.C., et al. [1995,eng] 50-1451
- Snow and sea ice correlation to Chinese summer air temperatures. Fu, C.B., [1983,eng] 50-4099
- Toba eruption sulfates recorded in GISP2 ice core. Zielinski, G.A., et al. [1996,eng] 50-5288
- See [also]: Air conditioning; Cryogenics; Ice refrigeration; Liquid cooling; Radiant cooling; Refrigeration
- Cooling rate**
Analysis of thermal stresses around a cryosurgical probe. Rabin, Y., et al. [1996,eng] 50-5814
- Freeze preparation of plant tissue for electron microscopy. Adler, K., et al. [1996,eng] 50-5485
- Ice nucleation activity in antarctic plants. Worland, M.R., et al. [1996,eng] 50-6221
- Modeling of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996,eng] 50-6715
- Performance of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996,eng] 50-3408
- Radiative effects of polar stratospheric clouds. Kinne, S., et al. [1990,eng] 50-5986
- Radiative heating rates during the Airborne Arctic Stratospheric Expedition. Rosenfield, J.E., et al. [1990,eng] 50-5981
- Role of nucleation in cryopreservation. Fahy, G.M., [1995,eng] 50-3288
- Stratospheric constituent trends from ER-2 profile data. Schoeberl, M.R., et al. [1990,eng] 50-6005
- Variables of cryopreservation of marine microalgae. Canavate, J.P., et al. [1995,eng] 50-4327
- Vitrification of articular cartilage by high-pressure freezing. Studer, D., et al. [1995,eng] 50-6589
- Cooling systems**
Actual conditions and problems in air conditioning of buildings by ice thermal storage. Ihamoto, T., [1988,jpn] 50-2275
- Air conditioning using snow thermal storage in aquifers. Umamiya, H., [1988,jpn] 50-2279
- Conduction in convecting and radiating fins and fin assemblies. Aziz, A., et al. [1995,eng] 50-2455
- Current status and prospects of air conditioning systems using ice thermal storage. Takakusa, M., [1988,jpn] 50-2276
- Foundation heave induced by a subgrade cooling system over permafrost. Scher, R.L., [1991,eng] 50-1737
- Foundation rehabilitation at ADOT/PF Jim River Maintenance Camp. Rooney, J.W., et al. [1991,eng] 50-1768
- Ground-coupled heat pumps. Phetteplace, G., [1995,eng] 50-2465
- Modeling of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996,eng] 50-6715
- Performance of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996,eng] 50-3408
- Possibilities and problems in the realization of snow-storage air conditioning systems. Umemura, T., [1988,jpn] 50-2278
- Possibility of using snow for home air conditioning. Nishioka, T., [1988,jpn] 50-2277
- Research on technology for conquering and exploiting snow. [1988,jpn] 50-2273
- Using the thermal properties of snow. Tsushima, K., [1988,jpn] 50-2274
- See [also]: Air conditioning; Cryogenics; Refrigeration
- Cooperation**
See [also]: International cooperation
- Copper**
Ancient pollution recorded in Greenland ice. Hong, S.M., et al. [1996,eng] 50-3956
- Core analysis**
See [also]: Drill core analysis
- Core samplers**
Arctic Ocean echosounding records. Bergmann, U., [1995,ger] 50-3155
- Instruments for coring, structure and composition analysis and monitoring sea ice. Zagorodnov, V.S., et al. [1995,eng] 50-6317
- See [also]: Ice coring drills
- Cores**
See [also]: Drill core analysis; Ice cores
- Coring**
Accumulation rates of carbon in mires in Finland and implications for climate change. Tolonen, K., et al. [1995,eng] 50-6078
- Barents Sea Pleistocene ice sheet growth deduced from marine sediment provenance. Elverhøi, A., et al. [1995,eng] 50-2012
- Canadian permafrost distribution during the Holocene. Zolai, S.C., [1995,eng] 50-1453
- Conglomerate identification and mapping leads to development success in a mature Alaskan field. O'Sullivan, T.P., et al. [1991,eng] 50-1756
- Development of a new shallow ice core drill. Takahashi, A., [1996,jpn] 50-3503
- Development of JARE deep ice coring system (III). Takahashi, A., et al. [1996,jpn] 50-6347
- Dome-Fuji deep drilling facility, JARE 35. Saito, T., [1995,jpn] 50-3497
- Drilling and sampling of permafrost for site investigation purposes: a review. Riddle, C.H., et al. [1991,eng] 50-1747
- Greenland Ice-Core Project (GRIP): three years of activity. Maggi, V., et al. [1994,ita] 50-2821
- Oil-soluble resin-diverting agents in Prudhoe Bay acidizing operations. Strassner, J.E., et al. [1991,eng] 50-1698
- Paleoclimatic significance of a new Arctic Ocean foraminiferal fauna. Mullen, M.W., et al. [1995,eng] 50-3349
- Palyonology and sediment slumping in a high arctic Greenland lake. Fredskild, B., [1995,eng] 50-3368
- Pleistocene foraminifera in Arctic Ocean piston cores. Evans, J.R., et al. [1995,eng] 50-3348
- Prudhoe Bay field, Alaska, waterflood injection water quality and remedial treatment study. Hsi, C.D., et al. [1991,eng] 50-1700
- Sedimentary environment of the Laptev Sea: preliminary results of the TRANSDRIFT II Expedition. Dehn, J., et al. [1995,eng] 50-2100
- Study of the calcareous microfauna from Laptev Sea sediments. Bauch, H.A., et al. [1995,eng] 50-2102
- White spruce light rings in northwestern Canada. Szeicz, J.M., [1996,eng] 50-5492
- Corona discharge**
See [also]: Electric corona
- Correlation**
10-century comparison of prominent bipolar volcanic events in ice cores. Langway, C.C., Jr., et al. [1995,eng] 50-583
- 130 years deposition record of sulfate, nitrate and chloride from a high-alpine glacier. Döschner, A., et al. [1995,eng] 50-4079
- 135,000-year Vostok SPECMAP common temporal framework. Sowers, T., et al. [1993,eng] 50-2867
- 1994/95 winter ice in the Baltic Sea between the Ems and the Oder rivers. Strübing, K., [1995,ger] 50-4535
- ²³⁴Th as an indicator of particulate fluxes in the Kara Sea. Kuptsov, V.M., et al. [1995,eng] 50-3544
- 6 ka BP reconstruction for Newfoundland from pollen records. Macpherson, J.B., [1995,eng] 50-1459
- Age of pre-late-Wisconsin glacial-estuarine sedimentation, Bristol Bay, Alaska. Kaufman, D.S., et al. [1996,eng] 50-4586
- Alpine ecosystem snow depths derived from tree damage. Woolridge, G.L., et al. [1996,eng] 50-4629
- Alpine glacial advances derived from summer air temperature records. Bray, J.R., [1982,eng] 50-3380
- Altitude retracking algorithm accuracy for Greenland ice sheet growth. Davis, C.H., [1995,eng] 50-980
- Analysis of spatial reverberation statistics in the central Arctic. LePage, K., et al. [1996,eng] 50-5191
- Annual net balance of North Cascade glaciers, 1984-94. Peltó, M.S., [1996,eng] 50-4886

Correlation

Correlation

- Antarctic atmospheric moisture values obtained from microwave radiometers. Wada, M., et al. [1992,eng] 50-3568
- Applications of freshwater diatoms to geographical research. Moser, K.A., et al. [1996,eng] 50-5013
- Arctic marine mammals as integrators and indicators of mercury in the Arctic. Wagemann, R., et al. [1995,eng] 50-881
- Atlantic Ocean sedimentary evidence for Pleistocene ice rafting. Robinson, S.G., et al. [1995,eng] 50-1110
- Atmospheric chemistry changes versus past climate inferred from polar ice cores. Legrand, M., [1995,eng] 50-1643
- Atmospheric CO₂ variations inferred from antarctic ice composition. Etheridge, D.M., et al. [1996,eng] 50-3446
- Avalanche climatology of the continental zone in the southern Rocky Mountains. Mock, C.J., [1995,eng] 50-969
- Barents Sea Pleistocene ice sheet growth deduced from marine sediment provenance. Elverhøi, A., et al. [1995,eng] 50-2012
- Base Pliocene velocity inversion on the eastern Vøring Margin—causes and implications. Reerst, P., et al. [1996,eng] 50-5316
- Biomass burning recorded in the GISP2 ice core: a record from eastern Canada? Taylor, K.C., et al. [1996,eng] 50-4370
- Biostratigraphic evidence of an Icelandic paleoclimatic oscillation. Rundgren, M., [1995,eng] 50-2017
- British Columbia vegetation and climate history with focus on 6 ka BP. Hebda, R.J., [1995,eng] 50-1454
- C-band backscatter measurements of winter sea-ice in the Weddell Sea, Antarctica. Drinkwater, M.R., et al. [1995,eng] 50-1817
- Calculated and measured air and soil freeze-thaw frequencies. Baker, D.G., et al. [1995,eng] 50-1217
- Calibration of radiocarbon ages and the interpretation of paleoenvironmental records. Bartlein, P.J., et al. [1995,eng] 50-2018
- Century of accumulation and temperature changes in Dronning Maud Land, Antarctica. Isaksson, E., et al. [1996,eng] 50-4352
- Chinese loess accumulation compared to Greenland ice core climatology. An, Z.S., et al. [1995,eng] 50-1065
- Chronostratigraphy of Warta loesses and correlation with glacial deposits in Poland. Maruszczak, H., [1993,eng] 50-3664
- Climatic and geographic patterns in snow density dynamics, northern Eurasia. Onuchin, A.A., et al. [1996,eng] 50-4342
- Climatic controls on rates of solifluction: variations within Europe. Matthews, J.A., et al. [1993,eng] 50-849
- Climatic effects on terminus variations of a Norwegian glacier. Nesje, A., et al. [1995,eng] 50-1836
- Climatic implications of ostracode deposits in Greenland Quaternary sediments. Brouwers, E.M., et al. [1991,eng] 50-2564
- Climatic significance of bristlecone pine frost-ring records. Brunstein, F.C., [1996,eng] 50-4338
- Coherent observation operators for surface data assimilation with application to snow depth. Urban, B., [1996,eng] 50-3008
- Comment on paper by Blanchon et al. Clark, P.U., et al. [1995,eng] 50-1101
- Comment on paper by Schaefer et al. Davies, T.D., et al. [1996,eng] 50-3647
- Comments on the Climax I and II experiments including replies to Rangno and Hobbs. Mielke, P.W., Jr., et al. [1995,eng] 50-640
- Comparing simulated glacial climate and paleodata: a reexamination. Broccoli, A.J., et al. [1996,eng] 50-4398
- Comparison between neural network and statistical snowfall prediction methods. McGinnis, D.L., [1994,eng] 50-4356
- Comparison between snow cover products derived from visible and microwave satellite observations. Basist, A., et al. [1996,eng] 50-3007
- Comparison of ice-sheet satellite altimeter retracking algorithms. Davis, C.H., [1996,eng] 50-2703
- Comparison of methods used to create estimate of air-freezing index. Steurer, P.M., et al. [1995,eng] 50-360
- Comparison of two avalanche forecasting models. Weiler, C., [1995,eng] 50-1060
- Contrast between natural and simulated snowdrift experiments. Naaim-Bouvet, F., [1995,eng] 50-1063
- Controls on glacier surging in Svalbard. Hamilton, G.S., et al. [1996,eng] 50-4900
- Correlation between atmospheric pressure anomalies and snowpack accumulation. McCabe, G.J., Jr., et al. [1995,eng] 50-1551
- Correlation between Pleistocene involutions in English soil and Canadian thermokarst. Murton, J.B., et al. [1995,eng] 50-1803
- Danish lacustrine sediment evidence of paleoclimatological variability. Hammarlund, D., et al. [1996,eng] 50-5826
- Dating of Holocene solifluction in the Austrian Alps. Veit, H., [1993,eng] 50-826
- Dating of soil development on Sierra Nevada moraines. Bach, A.J., et al. [1996,eng] 50-4630
- DEM corrected ERS-1 SAR data for snow monitoring in alpine regions. Guneriusson, T., et al. [1995,eng] 50-3716
- Detection of polar stratospheric clouds with ERS-2/GOME data. Meerkötter, R., [1995,eng] 50-2150
- Determination of alpine treeline variations from soil charcoal sediments. Carcaillet, C., et al. [1996,eng] 50-4746
- Determination of total carbonate content in some representative loess-paleosol profiles. Gerzi, L., et al. [1995,eng] 50-1043
- Diatom, chrysophyte and protozoan distributions along a latitudinal transect in Fennoscandia. Pienitz, R., et al. [1995,eng] 50-4741
- Dissolved organic matter in arctic sea ice. Thomas, D.N., et al. [1995,eng] 50-717
- Distribution of deuterium excess in surface snow of the antarctic ice sheet. Ren, J.W., et al. [1995,eng] 50-978
- Distribution of hydrogen peroxide in surface snow over antarctic ice sheet. Kamiyama, K., et al. [1996,eng] 50-3452
- Distribution of pesticide residues in arctic coastal ecosystems. Bright, D.A., et al. [1995,eng] 50-4747
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1996,eng] 50-5810
- Downwelling radiation flux at continental surfaces. Garratt, J.R., et al. [1996,eng] 50-5018
- Eastern Canadian Arctic at ca. 6 ka BP: a time of transition. Williams, K.M., et al. [1995,eng] 50-1450
- Ecology of an alpine cushion plant. Owen, W.R., [1995,eng] 50-1540
- Effect of sea ice surface features on radar backscatter. Ulander, L.M.H., et al. [1995,eng] 50-1813
- Effect of water-table position on frost heave. Burns, J., [1977,eng] 50-2326
- Effects of snowpack grain size on remote sensing of river basins. Josberger, E.G., et al. [1996,eng] 50-4302
- Effects of total water content on dynamic properties of frozen soils. Fukuda, M., et al. [1991,eng] 50-1748
- Empirical study on Nimbus-7 snow mass and Indian summer monsoon rainfall. Kripalani, R.H., et al. [1996,eng] 50-6226
- Estimating snowmelt runoff erosion indices for Canada. Hayhoe, H.N., et al. [1995,eng] 50-967
- Estimation of snowmelt volume using air temperature and wind speed. Hasebe, M., et al. [1995,eng] 50-1958
- European paleoclimatic variations inferred from Greenland ice core isotope analysis. Hafidason, H., et al. [1995,eng] 50-2528
- Evaluation of controls on iceberg-calving glaciers. Wiles, G.C., et al. [1995,eng] 50-3324
- Evaluation of SMMR satellite-derived snow depth using ground-based measurements. Tait, A., et al. [1996,eng] 50-4016
- Expanded record of Quaternary oceanographic change: Amerasian Arctic Ocean. Ishman, S.E., et al. [1996,eng] 50-3388
- Forest fire records inferred from Greenland ice core chemistry. Legrand, M., et al. [1996,eng] 50-3447
- Full-glacial shoreline vegetation during the maximum highstand at Owens Lake, California. Koehler, P.A., et al. [1994,eng] 50-1543
- General circulation (GCM) modelling of paleoclimates: a critique. Street-Perrott, F.A., [1991,eng] 50-3303
- Geochemical correlation between coarse and fine fractions of till in southern Finland. Tarvainen, T., [1995,eng] 50-2705
- Glacial evidence of climatic cooling during the Younger Dryas. Osborn, G.D., et al. [1995,eng] 50-4625
- Glaciers and global warming. Koerner, R.M., et al. [1995,eng] 50-5040
- Glaciers and lakes in the Tianshan Mountains as indicators of climatic change. Hu, R.J., et al. [1994,eng] 50-3998
- Global sea level rise and glacial isostatic adjustment. Peltier, W.R., [1996,eng] 50-4310
- Global Younger Dryas? Peteet, D., [1995,eng] 50-504
- Granulometric investigations of loess profiles in Hungary. Kis, E., [1995,eng] 50-1039
- Greenland and United Kingdom paleotemperatures comparisons from Greenland snow accumulation rates. Lowe, J.J., et al. [1995,eng] 50-1082
- Greenland ice core sediments correlated with oceanic sediments. Grönvold, K., et al. [1995,eng] 50-1251
- Greenland ice sheet climate record of the past 16,500 years. Stuiver, M., et al. [1995,eng] 50-2015
- Greenland paleotemperatures derived from ice core isotope profiles. Johnsen, S.J., et al. [1995,eng] 50-2027
- Herb reproductive timing in relation to snow conditions. Morton, M.L., [1994,eng] 50-1542
- High precision ²³⁰Th and ²³⁸Th in the Norwegian Sea and Denmark by thermal ionization mass spectrometry. Moran, S.B., et al. [1995,eng] 50-2022
- High resolution observations of Weddell Sea surface currents using ERS-1 SAR sea-ice motion vectors. Thomas, J.P., et al. [1995,eng] 50-1819
- Holocene debris-flow activity in northern Sweden. Jonasson, C., [1993,eng] 50-837
- Holocene environmental changes in a Tibetan lake basin, pt.2. Van Campo, E., et al. [1996,eng] 50-5091
- Holocene environmental changes in a Tibetan lake basin, pt.4. Gasse, F., et al. [1996,eng] 50-5093
- Holocene glacial chronology in Patagonia: Tyndall and Upsala glaciers. Aniya, M., [1995,eng] 50-2806
- Holocene glacier variations in central Asia. Savoskul, O.S., et al. [1996,eng] 50-4372
- Holocene solifluction at Okstindan, northern Norway: a reassessment. Worsley, P., [1993,eng] 50-829
- Holocene solifluction in the Swiss Alps: dating and climatic implications. Gamper, M., [1993,eng] 50-824
- Holocene subalpine lake fluctuations in France. Magny, M., [1992,eng] 50-2560
- Ice rafting sources for Younger Dryas detrital carbonate in the North Atlantic. Andrews, J.T., et al. [1995,eng] 50-1564
- Ice sheet motion and topography from radar interferometry. Kwok, R., et al. [1996,eng] 50-2702
- Ice/supercooled water linear correlation length from Raman spectroscopy. Walrafen, G.E., et al. [1995,eng] 50-152
- Iceberg observations and estimation of submarine ridges in the western Weddell Sea. Viehoff, T., et al. [1995,eng] 50-1818
- Implications of glacial deposit physical properties for radiocarbon dating. Karrow, P.F., [1992,eng] 50-2563
- Implications of glacial hydrology and flow for subglacial drainage dynamics. Raymond, C.F., et al. [1995,eng] 50-451
- Indentation pressure in ice/vertical structure interaction. Takeuchi, T., et al. [1995,eng] 50-2738
- Infrasound signatures of a polar low in the Norwegian and Barents Sea on 23-27 March 1992. Ørbæk, J.B., et al. [1995,eng] 50-2026
- Interannual climate variability and snowpack in the western United States. Cayan, D.R., [1996,eng] 50-5529
- Interannual variability of sea-level pressure, sea-ice and runoff over the Arctic. Power, S.B., et al. [1991,eng] 50-5258
- Isotopic calibration of Canadian arctic climatic change records. Bellurmi, H., et al. [1995,eng] 50-3682
- Isotopic climatic records in the Allerød-Bølling-Younger Dryas and post-Younger Dryas events. Epstein, S., [1995,eng] 50-2804
- Laboratory comparisons of organic materials to interstellar dust and the Murchison meteorite. Pendleton, Y.J., [1995,eng] 50-3025
- Labrador Sea atmospheric circulation/sea-ice anomalies. Newell, J.P., [1996,eng] 50-6227
- Late Cenozoic evolution of the western Barents Sea-Svalbard continental margin. Faleide, J.I., et al. [1996,eng] 50-5308
- Late Pleistocene-Holocene diatom record and paleoenvironment of Bangong Lake, Western Tibet. Fan, H., et al. [1994,eng] 50-1532
- Late Quaternary foraminiferal stratigraphy from western Svalbard. Lycke, A.K., et al. [1992,eng] 50-2557
- Late Younger Dryas to Holocene paleoenvironments of the southern Kattegat, Scandinavia. Conradsen, K., [1995,eng] 50-2861
- Late-Holocene glaciation and twentieth-century retreat, north-eastern Brooks Range, Alaska. Evison, L.H., et al. [1996,eng] 50-4371
- Lead isotopic ratios in Greenland and antarctic snow and ice. Chisholm, W., et al. [1995,eng] 50-1256
- Little Ice Age evidence from a south-central North American ice core. U.S.A. Nafiz, D.L., et al. [1996,eng] 50-4334
- Little Ice Age temperature estimated by arctic heather growth variations. Havström, M., et al. [1995,eng] 50-1121
- Loess sediment isotopic properties related to paleoclimate. Li, C.Y., et al. [1995,eng] 50-1555
- Loess-paleosol dating method. Zhu, Z.Y., [1995,eng] 50-1050
- Long-term snow variations at Nagaoaka, Japan. Nakamura, T., et al. [1996,eng] 50-4898
- Marine sedimentation rates as evidence of continental glaciation. Goldschmidt, P.M., [1995,eng] 50-1828
- Mathematical model of spray ice island creep. Thiel, D.T., et al. [1991,eng] 50-1720
- Mathematical model of spray ice island creep. Thiel, D.T., et al. [1991,eng] 50-1720
- Measurement of ice-sheet topography using satellite-radar interferometry. Joughin, I., et al. [1996,eng] 50-4887
- Measurement of seismic-acoustic ocean-bottom properties in the high Arctic. Dosso, S.E., et al. [1995,eng] 50-1837
- Measurements of powder snow avalanches—laboratory. Keller, S., [1995,eng] 50-1059
- Mercury and plastic in suspended Arctic Ocean sediment. Jøris, C.R., et al. [1995,eng] 50-1971
- Meteorites as time markers on antarctic blue ice fields. Benoit, P.H., [1995,eng] 50-1408
- Method for the study of Quaternary environmental evolution of the loess plateau in China. Zhang, Z.H., et al. [1995,eng] 50-1045
- Methodology of loess palynology. Zelikson, E.M., [1995,eng] 50-1049
- Methods for classifying apparently homogeneous loess sequences. Molnár, B., et al. [1995,eng] 50-1041
- Micro-scale patterns of modern pollen deposition within three alpine plant communities. Pardoe, H.S., [1996,eng] 50-4253
- Microwave imaging of Labrador Sea thin sea ice. Collins, M.J., et al. [1996,eng] 50-2701
- Modeling and observational study of East Antarctic surface mass balance. Connolly, W.M., et al. [1996,eng] 50-3017
- Moraine dating supports Younger Dryas cooling event. Gosse, J.C., et al. [1995,eng] 50-1255
- Mountain hemlock expansion in a subalpine ecosystem. Taylor, A.H., [1995,eng] 50-3321
- No evidence for extreme, long term warming in early Pliocene sediments of the Southern Ocean. Burckle, L.H., et al. [1996,eng] 50-6627
- North Atlantic paleoclimatic effects on primary productivity. Versteegh, G.J.M., et al. [1996,eng] 50-6620
- On the concentrations of O₂, N₂ and Ar in trapped gases from ice cores. Bender, M., et al. [1995,eng] 50-633
- On the interannual variability of precipitation and runoff in the Mackenzie drainage basin. Björnsson, H., et al. [1995,eng] 50-2737
- On using historical comparisons in evaluating cloud seeding operations. Gabriel, K.R., et al. [1983,eng] 50-4492
- Operational use of ERS-1 SAR images in the Canadian ice monitoring programme. Shokr, M.E., et al. [1996,eng] 50-4017
- Optical backscatter characteristics of arctic polar stratospheric clouds. Kent, G.S., et al. [1990,eng] 50-5987
- Organic carbon paleo-pCO₂ and marine-ice core correlations and chronology. Raymo, M.E., et al. [1996,eng] 50-3601

Corrosion

Cosmic dust

- Ozone and aerosol correlated observations at Thule, Greenland, in the period 1991-1994. Di Sarra, A., et al. [1995,eng] 50-2849
- Paleoclimate of the North Atlantic seaboard during the last glacial/interglacial transition. Lowe, J.J., et al. [1995,eng] 50-501
- Paleobotany and cladistics and cladistics in paleobotany: enlightenment and uncertainty. Nixon, K.C., [1996,eng] 50-4001
- Paleoceanographic import of Norwegian Sea sediment stratigraphy. Rasmussen, T.L., et al. [1996,eng] 50-5222
- Paleoclimatic atmospheric chemical changes inferred from fossil leaf density. Beerling, D.J., et al. [1995,eng] 50-6563
- Paleoclimatic changes on the northern side of the central Himalaya. Fort, M., [1996,eng] 50-5096
- Paleoclimatic CO₂ record related to changes in oceanic thermohaline circulation. Figge, R.A., et al. [1995,eng] 50-1149
- Paleoclimatic implications of Norwegian postglacial avalanches. Blikra, L.H., et al. [1993,eng] 50-835
- Paleoclimatic implications of Swedish lake-level fluctuations. Almquist-Jacobson, H., [1995,eng] 50-2716
- Paleoclimatic import of gravel deposits on a Chinese plateau. Liu, T.S., et al. [1996,eng] 50-5098
- Paleoclimatic interpretation of rock glacier dating. Nicholas, J.W., et al. [1996,eng] 50-5577
- Paleoclimatic models of Chinese loess and paleosol sequences. Thompson, R., et al. [1995,eng] 50-2542
- Paleoclimatological significance of Quaternary diatom lake deposits in Qinghai-Xizang (Tibet). Li, J.Y., et al. [1994,eng] 50-1536
- Paleoclimatological variations from isotope analysis of marine deposits. Rial, J.A., [1995,eng] 50-1286
- Paleoenvironmental history of a Canadian freshwater lake. Hickman, M., et al. [1996,eng] 50-6696
- Paleogeographic implications of ostracod fauna in Karakorum Mountain lacustrine deposits. Li, Y.F., et al. [1994,eng] 50-1537
- Paleoglacial events on Baffin Island, Labrador Sea. Fillon, R.H., et al. [1981,eng] 50-3621
- Paleohydrological changes in French mountains due to paleoclimatic changes. Magny, M., [1995,eng] 50-5038
- Paleomagnetism of Icelandic lava piles. Kristjánsson, L., et al. [1995,eng] 50-4948
- Paleorecords of plant biodiversity in the Alps. Ammann, B., [1995,eng] 50-3896
- Physical and geochemical properties across the Atlantic/Pacific water mass front in the southern Canadian Basin. McLaughlin, F.A., et al. [1996,eng] 50-2845
- Pipe rigidity as a failure index under explosive loads. Abd El Halim, A.O., et al. [1996,eng] 50-5047
- Plankton blooms as evidence of Holocene climatic fluctuations. Thorsen, T.A., et al. [1995,eng] 50-2860
- Plant nutrient runoff in Norwegian watersheds. Haraldsen, T.K., et al. [1995,eng] 50-741
- Pleistocene altiplanation in northern Chile. Köhl, A., et al. [1995,eng] 50-4947
- Pleistocene glacial history of the Svalbard area. Hebbeln, D., [1992,eng] 50-2558
- Pleistocene glacier thicknesses inferred from electron microscopy of till microtextures. Mahaney, W.C., [1995,eng] 50-3365
- Pleistocene lacustrine record of a Chinese lake. Rhodes, T.E., et al. [1996,eng] 50-5095
- Pleistocene termination in northern Eurasia. Velichko, A.A., [1995,eng] 50-505
- Plio-Pleistocene megacycles: record of climate and tectonics. Kukla, G., et al. [1996,eng] 50-5099
- Pollen assemblages from small Canadian arctic lakes. Gajewski, K., [1995,eng] 50-966
- Pollen content of Pleistocene deposits in the St. Lawrence Estuary. Clet, M., et al. [1995,eng] 50-4884
- Pre-Illinoian glacial stratigraphy in north-central Missouri. Rovey, C.W., III, et al. [1996,eng] 50-4585
- Predicting brick frost resistance. If. Robinson, G.C., et al. [1995,eng] 50-1961
- Prediction of permafrost temperature in bed of structure from field data. Khristalev, L.N., et al. [1995,eng] 50-345
- Proceedings. [1994,eng] 50-1531
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Radioactive dating of pollen deposits in a Swedish lake. Regnell, J., [1992,eng] 50-2562
- Radiocarbon dating of glacial moraines in California. Dorn, R.L., [1996,eng] 50-6098
- Radiocarbon dating of the Goti-Finiglacial boundary of the Swedish Time Scale. Brunnberg, L., et al. [1992,eng] 50-2551
- Radiometric detection of ice crystal growth in cirrus clouds. Ou, S.C., et al. [1996,eng] 50-5204
- Rapid climatic shifts during isotope stages 2-4 in the polar North Atlantic. Dokken, T.M., et al. [1996,eng] 50-6105
- Rapid isotopic rebound in southwestern Iceland at the end of the last glaciation. Ingólfsson, O., et al. [1995,eng] 50-1802
- Rapid oscillations in Vostok and GRIP ice cores. Yiou, P., et al. [1995,eng] 50-772
- Reconstructed runoff from the high arctic basin Bayelva based on mass-balance measurements. Hagen, J.O., et al. [1995,eng] 50-4013
- Reconstruction of the ice winter severity since 1701 in the western Baltic. Koslowski, G., et al. [1995,eng] 50-1957
- Relations between atmospheric circulation and glacier mass balance. McCabe, G.J., Jr., et al. [1995,eng] 50-3323
- Relevance of thermoluminescence dating of Pleistocene loess to volcanic eruptive history. Berger, G.W., et al. [1995,eng] 50-2118
- Revisiting the degree-day method for snowmelt computations. Rango, A., et al. [1995,eng] 50-1653
- Role of January in the character of recent winters in the United States. Diaz, H.F., [1984,eng] 50-4914
- SAM II and lidar aerosol profile comparisons during AASE. Osborn, M.T., et al. [1990,eng] 50-5993
- Satellite observation of lake ice as a climate indicator. Wynne, R.H., et al. [1993,eng] 50-2862
- Siberian future climate predictions. Volkova, V.S., et al. [1995,eng] 50-6584
- Slope processes and climate in the Abisko Mountains, northern Sweden. Rapp, A., et al. [1993,eng] 50-836
- Snow accumulation rate from synthesis of microwave and altimeter data. Davis, C.H., [1995,eng] 50-162
- Snow algae microbiology related to ultraviolet radiation effects. Thomas, W.H., et al. [1995,eng] 50-2814
- Snow identification from radar wind profiler spectra. Ralph, F.M., et al. [1996,eng] 50-5163
- Snow recognition and classification using ISOMIX. Li, L.X., et al. [1994,eng] 50-3999
- Snowpack evidence of air pollution in Lapland and the Kola Peninsula. Lindroos, A.J., et al. [1995,eng] 50-4955
- Soil isotopic evidence of Quaternary atmospheric circulation variations in North America. Amundson, R., et al. [1996,eng] 50-2722
- Solifluction and creep rates 1972-1991. Kapp Linné, West Spitsbergen. Åkerman, H.J., [1993,eng] 50-841
- Solifluction controls in the French Alps. Pissart, A., [1993,eng] 50-839
- Solifluction in northern Eurasia: a review. Serebrianniy, L.R., et al. [1993,eng] 50-833
- Solifluction in the Arctic and subarctic during the Holocene. Van Vliet-Lanoë, B., [1993,eng] 50-844
- Solifluction in the Swedish mountains. Ulfstedt, A.C., [1993,eng] 50-840
- Some results from geocoding and calibration of ERS-1 SAR FD images in mountainous areas. Johnsen, H., et al. [1995,eng] 50-3717
- Sources of acidity in fresh snowfall elemental concentrations. Baisden, W.T., et al. [1995,eng] 50-2126
- Spatial and temporal variability in southern ocean sea ice coverage. Stammerjohn, S.E., [1993,eng] 50-5520
- Statistical analysis of Thayer Hill Road heave data. Harr, M.E., et al. [1995,eng] 50-2030
- Stratospheric temperatures during AASE: results from STRATAN. Rood, R.B., et al. [1990,eng] 50-5979
- Structure-independent measurement of icing. Makkonen, L., [1992,eng] 50-3629
- Study on snowmelt runoff prediction using weekly weather forecast. Hatta, S., et al. [1995,eng] 50-1959
- Swiss alpine paleoclimate during the Holocene: pollen analytical evidence and general features. Burga, C.A., [1993,eng] 50-825
- Taku Glacier, southeast Alaska, U.S.A.: Late Holocene history of a tidewater glacier. Motyka, R.J., et al. [1996,eng] 50-4335
- Temporal characteristics of Pennsylvania snowfall, 1950-1951 through 1989-1990. Acker, J.C., et al. [1995,eng] 50-970
- Terrestrial molluscs as indicators of global aeolian dust fluxes during glacial states. Rousseau, D.D., [1992,eng] 50-2552
- Thermal erosion in high arctic ecosystems in Spitsbergen. King, L., et al. [1993,eng] 50-843
- Thermoluminescence ages of loess and associated sediments in central Nebraska, USA. Pye, K., et al. [1995,eng] 50-2166
- Thermoluminescence dating of Alaskan Pleistocene tephra. Berger, G.W., et al. [1996,eng] 50-5188
- Thickness of summer Arctic Ocean multiyear ice. Eicken, H., et al. [1995,eng] 50-2112
- Transfer of European coastal pollution to the Arctic: radioactive tracers. Dahlgaard, H., [1995,eng] 50-1136
- Tree establishment in subalpine meadows. Woodward, A., et al. [1995,eng] 50-3322
- Tree ring value determination of climatic change in Switzerland. Vogel, R.B., et al. [1996,eng] 50-6714
- Tree-ring dating of extreme water level events at Lake Bienville, subarctic Quebec, Canada. Lepage, H., et al. [1996,eng] 50-4339
- Treeline/midge correlation, Northwest Territories, Canada. Walker, I.R., et al. [1995,eng] 50-3326
- Variable leaf respiration rates of arctic and subarctic plant leaves. Collier, D.E., [1996,eng] 50-4368
- Variation in snowmelt alimentation of annual river runoff. Bolgov, M.V., et al. [1996,eng] 50-5860
- Vendian glaciations and their relation to the dispersal of Rodinia: paleomagnetic constraints. Torsvik, T.H., et al. [1995,eng] 50-663
- Vertical motion and ice thickness variation in western North America. Trupin, A.S., et al. [1996,eng] 50-3068
- Volcanic stratospheric loading derived from Greenland ice core measurements. Zielinski, G.A., [1995,eng] 50-1331
- Vostok ice core deuteration variations over the last two glacial cycles. Waelbroeck, C., et al. [1995,eng] 50-4089
- Water pressure and basal sliding on Storglaciären, northern Sweden. Jansson, P., [1995,eng] 50-446
- Weichselian chronostratigraphy and correlations. Möner, N.A., [1981,eng] 50-3624
- Wellbore multiphase-flow correlation for the eastern operating area of Prudhoe Bay. Bradley, D.A., [1991,eng] 50-1728
- Younger Dryas as viewed through the Summit Greenland ice cores. Mayewski, P.A., [1994,eng] 50-5301
- Younger Dryas margin of the Scandinavian ice sheet—an introduction. Andersen, B.G., et al. [1995,eng] 50-510
- Corrosion**
- Adverse telluric effects on northern pipelines. Seager, W.H., [1991,eng] 50-1761
- Aluminum anodes used in cold saline environments. Schriber, C.F., [1996,eng] 50-5955
- Canadians wrap-up arctic vessels. [1986,eng] 50-5654
- Cathodic protection in North America: field results in high and low temperature environments. Bennett, J.E., et al. [1995,eng] 50-2661
- Cement type and freeze-thaw resistance of concrete. Stark, J., et al. [1995,eng] 50-2637
- Chemical attack of de-icing salts on portland cement concrete. Sasatani, T., et al. [1995,eng] 50-2678
- Chloride problems in UK highway structures. Mawhinney, M., [1995,eng] 50-2660
- Combined effect of acid and deicer solutions on fiber-reinforced hardened cement pastes. Fujii, T., [1995,eng] 50-2677
- Concrete scaling from deicing salts. Johnston, C.D., [1995,eng] 50-2641
- Corrosion control paints for steel pipeline supports in cold regions. Nakamura, Y., et al. [1996,eng] 50-6121
- Corrosion in Anchorage homes and buildings. Hicks, R.J., [1996,eng] 50-5953
- Corrosion of pipeline steels in permafrost. White, W.E., et al. [1996,eng] 50-5954
- Corrosive aggressiveness of saline frozen ground with regard to steel (in the example of Yamal soil). Zykov, I.U.D., et al. [1995,eng] 50-2513
- Deterioration in concrete bridges at the seashore in cold regions. Shoya, M., et al. [1992,eng] 50-2754
- Durable concrete for northern environments. Gerwick, B.C., Jr., [1996,eng] 50-5950
- Effects of northern shipping and storage on corrosion performance. Perriego, L.D., III, et al. [1996,eng] 50-5952
- Evaluation of the precision of freeze thaw and deicing salt testing by the CDF procedure. Setzer, M.J., et al. [1995,eng] 50-2622
- Evaluation procedures for deicing chemicals and improved sodium chloride. Chappelow, C.C., et al. [1993,eng] 50-875
- Freeze-thaw and deicing salt resistance of concrete—basic research and testing. Setzer, M.J., [1995,eng] 50-2620
- Freezing point depression by common salts: implications for corrosion in cold climates. Brass, G.W., [1996,eng] 50-5951
- Frost and deicing salt resistance of concrete pavements. Setzer, M.J., et al. [1994,eng] 50-2797
- Frost durability of concrete containing viscosity-modifying admixtures. Khayat, K.H., [1995,eng] 50-4500
- Frost durability of high-performance concrete. Marchand, J., et al. [1995,eng] 50-2640
- Frost resistance of marine concrete in a cold environment. Ayuda, K., et al. [1995,eng] 50-2663
- High-performance concrete incorporating large volumes of ASTM Class F fly ash. Bilodeau, A., et al. [1994,eng] 50-2765
- Logistics in arctic corrosion control. Dart, T.R., [1996,eng] 50-5949
- Method to prevent weld zone corrosion in offshore structures. DeGeer, D.D., et al. [1991,eng] 50-1726
- Microstructure durability of concretes exposed to arctic conditions. Sarkar, S.L., et al. [1995,eng] 50-2664
- Migrating corrosion inhibitors for reinforced concrete. Miksic, B., et al. [1996,eng] 50-5947
- Northern climate weathering tests on sealed concrete. Chang, L.M., [1996,eng] 50-6119
- Plating aluminum wheels against salt and sand. Graves, B.A., [1995,eng] 50-1070
- Protection against chloride-induced corrosion. Berke, N.S., et al. [1988,eng] 50-4229
- Relationship of telluric currents to the corrosion of warm arctic pipelines. Sackinger, W.M., [1991,eng] 50-1725
- Role of industries and environmental effects on corrosion control in the North. Dutta, P.K., [1996,eng] 50-3760
- Special light weight concrete—resistance to rebar corrosion and salt/frost scaling. Havdahl, J., et al. [1995,eng] 50-2658
- Standardization of corrosion wear of shell plating for ice ships operations. Kulsh, V.A., et al. [1996,eng] 50-4466
- Study of concrete bridges exposed to deicing salts. Novokshchenov, V., [1989,eng] 50-4225
- Underwater maintenance and inspection of CP systems (Cook Inlet, Alaska). Daley, J.C., et al. [1996,eng] 50-5502
- Western Conference, 1996. Controlling corrosion in northern latitudes. National Association of Corrosion Engineers (NACE) International, Houston, TX. Canadian Region, [1996,eng] 50-5945
- Winter protection for unprepared steel. [1989,eng] 50-5646
- Cosmic dust**
- Alcohols in interstellar ice mantles. Charnley, S.B., et al. [1995,eng] 50-5101
- Condensation of cometary ice analogs. Patnaik, A., et al. [1996,eng] 50-6222
- Cosmic dust particles in ice and snow, and their origin. Wang, D.D., et al. [1995,eng] 50-3614
- Formation of condensates on dust in interstellar clouds. Duley, W.W., et al. [1995,eng] 50-3290

Cost analysis

- Formation of organic molecules in astronomical ices. Schutte, W.A., [1995.eng] 50-653
- High-density amorphous ice, the frost on interstellar grains. Jenniskens, P., et al, [1995.eng] 50-2780
- Internal melt figures in Japanese pond ice and microparticles in antarctic ice cores. Higashi, A., [1996.jpn] 50-4931
- Ion irradiation of astrophysical ices. Strazzulla, G., et al, [1995.eng] 50-3022
- Laboratory comparisons of organic materials to interstellar dust and the Murchison meteorite. Pendleton, Y.J., [1995.eng] 50-3025
- Neutral and ionized PAHs: contribution to the interstellar extinction. Salama, F., et al, [1995.eng] 50-3021
- Observations of molecular ices. Whittet, D.C.B., [1993.eng] 50-3363
- On the formation of electron depletions at the summer polar mesopause. Klostermeyer, J., [1996.eng] 50-3600
- Radioactive heating of porous comet nuclei. Pralnik, D., et al, [1995.eng] 50-1464
- Simulation of extraterrestrial ice radiation absorption properties. Schutte, W.A., et al, [1995.eng] 50-3023
- Spectra of nitrogen component of ices in cosmic dust. Whittet, D.C.B., et al, [1996.eng] 50-6210
- Spectropolarimetry of the 3 micron ice feature toward the Becklin-Neugebauer object. Hough, J.H., et al, [1996.eng] 50-5504
- Spectroscopy of ices in quiescent cosmic dust clouds. Chiar, J.E., et al, [1995.eng] 50-2779
- Study of ice spectra in cosmic dust. Brooke, T.Y., et al, [1996.eng] 50-3964
- Surface features of interstellar ice. McCoustra, M., et al, [1996.eng] 50-5244
- Ultraviolet photodesorption from water ice. Westley, M.S., et al, [1995.eng] 50-3024
- Cost analysis**
- 1995 annual report on Alaska's mineral resources. Schneider, J.L., ed, [1995.eng] 50-5664
- Airborne Polar Experiment. CNR Direzione Centrale Attività Scientifiche, [1994.eng] 50-6197
- Aircraft operation for earth science study in the Yamato Mountains by JARE 35. Funaki, M., [1995.jpn] 50-3496
- Alternative deicing chemicals research. Woodham, D., [1994.eng] 50-1072
- Analytical methods to study road construction encroachment on the environment. Ivehammar, P., [1996.swe] 50-6686
- Annual report 1995. Arctic Institute of North America, [1996.eng] 50-2473
- Arctic not so costly and design ice loads falling. [1990.eng] 50-5586
- Arctic science, engineering, and education—directory of awards: fiscal year 1994. United States. National Science Foundation, [1994.eng] 50-1553
- Arctic tanker structural requirement evaluation. Final report. McCallum, J.S., et al, [1995.eng] 50-4124
- Assessment of the use of deicing salts. Breitenstein, J., [1996.ger] 50-3617
- Australian ice airstrip is a failure. Handmer, D., et al, [1990.eng] 50-3841
- Biennial report, 1993-1994. Colorado. University. Institute of Arctic and Alpine Research (INSTAAR), [1995.eng] 50-43
- Bituminous surface treatment (BST) of northern highways. MacLeod, D.R., et al, [1996.eng] 50-6184
- Can the Northern Sea Route be profitable. Schwarz, J., [1996.eng] 50-4490
- Challenge of West Sak heavy oil: analysis of an innovative approach. Gondouin, M., et al, [1991.eng] 50-1713
- Chloride problems in UK highway structures. Mawhinney, M., [1995.eng] 50-2660
- Cold regions utilities monograph. Third edition. Smith, D.W., ed, et al, [1996.eng] 50-6424
- Colorado storm and avalanches of February 1995. McCarty, D., et al, [1995.eng] 50-1098
- Cost-effective snow fence usage—D.I.M.E. Baker, H.A., et al, [1995.eng] 50-3116
- Costs and benefits of winter maintenance. Durth, W., [1995.ger] 50-2023
- Current conditions and countermeasures in the snow belt. [1985.jpn] 50-2036
- Current conditions and countermeasures in the snow belt. [1988.jpn] 50-2037
- Current conditions and countermeasures in the snow belt. [1991.jpn] 50-2038
- Demonstrating brine water wells and toilets for Deering, Alaska. Lundell, R.H., [1996.eng] 50-6153
- Development of energy sources for the Qinghai-Xizang Plateau. Tong, W., [1992.chi] 50-1480
- Developments in airport ice control chemicals. Towashend, T., [1995.eng] 50-3119
- Drilling smaller surface holes results in substantial cost savings. Krawietz, T.E., et al, [1991.eng] 50-1739
- Economic evaluation of snow removal systems in urban areas. Part 1. Morohashi, K., et al, [1995.jpn] 50-995
- Economic evaluation of snow-removal systems in urban areas. Part 2. Morohashi, K., et al, [1996.jpn] 50-4925
- Efficiency of steam and hot water heat distribution systems. Phetteplace, G., [1995.eng] 50-2390
- Energy saving characteristics of new type road-heating system. Hokari, K., et al, [1996.eng] 50-5400
- Evaluation of cold mixes for winter pothole repair. Prowell, B.D., et al, [1995.eng] 50-2792

- Exxon Valdez Oil Spill Restoration Plan. Exxon Valdez Oil Spill Trustee Council, Anchorage, AK, [1994.eng] 50-398
- February 1994 ice storm in the southeastern U.S. Lott, J.N., et al, [1996.eng] 50-5372
- Forty years of disaster mitigation in Xinjiang. Zhu, L.R., et al, [1993.chi] 50-4166
- From Anik to MSAT: bringing modern communications to the North. Pool, A., [1996.eng] 50-2446
- Guidelines for managing vegetation on earth-covered magazines within the U.S. Army Materiel Command. Palazzo, A.J., et al, [1994.eng] 50-389
- Helicopter services for USAP and NZAP. Petroleum Helicopters, Inc., [1996.eng] 50-5925
- Huge Barents Sea gas field holds promise. [1991.eng] 50-4377
- Ice storm management on an electrical utility system. Hall, J.W., [1996.eng] 50-5367
- Ice-structure interaction research and arctic development. Kennedy, K.P., et al, [1995.eng] 50-6304
- Illustrated Hokkaido forestry—towards well-developed forests. [1990.jpn] 50-2170
- Indiana streamlines permitting and ice/snow removal. Pittman, R., [1996.eng] 50-3495
- Innovative materials development and testing. Volume 2: pothole repair. Wilson, T.P., et al, [1993.eng] 50-1071
- Investigation into ice detection parameters for turboprop aircraft. Render, P.M., et al, [1996.eng] 50-4218
- Investigation of the impact of snow removal activities on pavement markings in Virginia. Cottrill, B.H., Jr., [1995.eng] 50-2791
- Japanese and snow. Yoshino, M., [1988.jpn] 50-2044
- Kennecott's Diavik project: diamond exploration enters the final stage. [1996.eng] 50-2447
- Life cycle cost analysis of a Storburn propane combustion toilet. Ritz, P., et al, [1996.eng] 50-6175
- Materiel delivery to A-SSP Station. DenHartog, S.L., et al, [1995.eng] 50-1195
- Model of snow disaster assessment using NOAA/AVHRR data in Nagqu area of Xizang. Feng, X.Z., et al, [1995.chi] 50-3988
- Multilaterals, horizontal wells could access remote Russian oil reserves. Hazen, T., [1996.eng] 50-6575
- Natural resources of Inner Mongolia. Eer, D., ed, [1987.chi] 50-2290
- New, low-cost ice control structure. Part 1: concept development. Lever, J.H., et al, [1996.eng] 50-6158
- New, low-cost ice control structure. Part 2: construction and performance. Lever, J.H., et al, [1996.eng] 50-6159
- Northern Sea Route: its development and evolving state of operations in the 1990s. Mulherin, N.D., [1996.eng] 50-4960
- Optimal design of bow plating for ships operating in ice. Brown, P.W., [1993.eng] 50-378
- Optimal design of piping systems for district heating. Phetteplace, G., [1995.eng] 50-1519
- Ottawa tests low-cost salt pre-wetting system. Miner, M., [1995.eng] 50-3292
- Overview of pipelines in Russian cold regions. Ivantsov, O.M., [1995.rus] 50-2520
- Overview of the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Hartley, A.E., Sr., [1996.eng] 50-5568
- Pedestrian slipping accidents and their prevention. Kelkka, M., [1995.fin] 50-5507
- PennDOT responds to the challenges of January's blizzards and flooding. Chizmar, S., [1996.eng] 50-6102
- Plan for the Japan-China joint study of the Taklimakan Desert. Japan. Science and Technology Agency. Research and Development Bureau, [1991.jpn] 50-1422
- Possibilities and problems in the realization of snow-storage air conditioning systems. Umemura, T., [1988.jpn] 50-2278
- Possibilities of regional development by snow utilization. Taneda, M., [1988.jpn] 50-2280
- Possibility of using snow for home air conditioning. Nishioka, T., [1988.jpn] 50-2277
- Preparation for excavation of frozen sands by using high frequency currents. Malkov, I.U.K., [1992.rus] 50-819
- Proceedings. Management of the Boreal Forest. Anchorage, AK. Dec. 3-4, 1987, [1988.eng] 50-68
- Recent advances in pipeline route selection and cost estimating methodology for arctic pipelines. Kreig, R.A., et al, [1990.eng] 50-1667
- Report of the Hokkaido University 3rd Alaska glacier survey, June 17-July 28, 1975. Higashi, A., [1976.jpn] 50-482
- Report on establishing an interdisciplinary polar institute in Denmark. Denmark. Ministeriet for Grønland (Ministry for Greenland), [1985.dan] 50-4551
- Report on the proposed snow dumping facilities, Ottawa River. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1980.eng] 50-1201
- Research report on snowproofing of houses. Uchida, Y., ed, [1984.jpn] 50-2291
- Reverse osmosis/direct contact freezing system for desalination plants. Madani, A.A., et al, [1989.eng] 50-4611
- Review of select exploration and development activity in state nearshore areas. Hansen, J., [1995.eng] 50-6305
- Screw anchors economically control pipeline buoyancy in muskox. Robertson, R., et al, [1995.eng] 50-4003
- Seabone oil and gas transportation from Northern Russia. Backlund, A., [1996.eng] 50-4487
- Shell to the fore as Chukchi opens up. [1988.eng] 50-4968
- Snow and ice control. Minnesota. Office of the Legislative Auditor, [1995.eng] 50-3596

- Solid waste management in rural Alaska. Hansen, H.M., et al, [1996.eng] 50-6171
- State of Alaska's participation in spill response and preparedness in the state. Vogt, D., [1992.eng] 50-87
- Status report on alternative energy systems at antarctic stations. Guichard, A., [1994.eng] 50-6423
- Still the Great Lakes' best icebreaker. [1995.eng] 50-3039
- Surprising success for Arctic lease sale. [1988.eng] 50-4967
- Technology assessment on systems for conquering and exploiting snow. [1987.jpn] 50-2289
- Tests clear snow, path for use of liquid anti-icing in northwest. Deep, D., et al, [1995.eng] 50-1954
- Tracks of forest roads in the privately owned forests of Hokkaido. [1990.jpn] 50-2294
- Transport of natural gas as frozen hydrate. Gudmundsson, J.S., et al, [1995.eng] 50-170
- Transportation of Alaska North Slope natural gas to market. Lannom, D.A., et al, [1996.eng] 50-6126
- Trends of the times related to snow. Yagasaki, T., [1988.jpn] 50-2049
- United States arctic research plan: Biennial revision: 1996-2000. Meyers, C.E., et al, [1995.eng] 50-3243
- Using solar energy at the South Pole: photovoltaic electricity and solar heating. Wills, R.H., [1988.eng] 50-3880
- Wastewater treatment facility aeration project. Eddy, G.L., [1996.eng] 50-6149
- Winter maintenance and chemical shortages. Pagan, A.R., [1995.eng] 50-1558
- Zero-velocity deicer spreaders clear more roadway for less. Banasiak, D., [1995.eng] 50-3675
- See [also]: Economic analysis
- Countermeasures**
- Adhesion of oil to plastics, stainless steel and ice. Liukkonen, S., et al, [1995.eng] 50-5716
- Adverse telluric effects on northern pipelines. Seager, W.H., [1991.eng] 50-1761
- Afforestation control of disastrous snow drifting on rugged terrain in Xinjiang. Hu, R.J., et al, [1994.eng] 50-4000
- Aircraft deicing. Roed, A., [1992.eng] 50-2983
- Aircraft icing handbook. [1993.eng] 50-5064
- Airfoil with integral de-icer using overlapped tubes. Rauchhorst, R.L., [1993.eng] 50-2338
- Alleviating the effects of frost action on gas distribution and regulator station piping. Arnold, J.M., et al, [1985.eng] 50-4363
- Alyeska/SERVS technological innovations for oil spill response. Hillman, S.O., [1996.eng] 50-5552
- Anti-icing and anti-misting formulations. Meric, Y.A., et al, [1993.eng] 50-2339
- Anti-icing system for a gas turbine engine. Mouton, P.C., [1995.eng] 50-3463
- Anti-skid chain for vehicle tires. Franklin, C.R., [1992.eng] 50-2246
- Application of foam insulation for remediation of degraded permafrost. Feklistov, V.N., et al, [1996.eng] 50-5472
- ATC and the icing dilemma. Glines, C.V., [1992.eng] 50-2982
- Avalanche book. Armstrong, B.R., et al, [1992.eng] 50-863
- Avalanche prevention and soil control in the Mount Krkňá area. Midriak, R., [1976.cze] 50-5142
- Balancing safety and the environment. Mericas, D., et al, [1994.eng] 50-2123
- Better visibility needed in snowplowing. [1995.eng] 50-3855
- Beware carb ice. [1992.eng] 50-3799
- Blowout in Beaufort Sea gas well. [1989.eng] 50-5647
- Canadians wrap-up arctic vessels. [1986.eng] 50-5654
- Clean wings for winter. Steenblik, J.W., [1992.eng] 50-2981
- Cold climate applications of bioventing. Ong, S.K., et al, [1994.eng] 50-1474
- Cold climate concerns. Part 2. Infrastructure planning and maintenance. Ryan, W.L., [1995.eng] 50-1077
- Cold weather operations. [1983.eng] 50-3792
- Composition for an anti-icing coating. Bochmanov, A.D., et al, [1992.rus] 50-1920
- Comprehensive review of oil spill combustion studies. Wala-valkar, A.Y., et al, [1996.eng] 50-5559
- Concrete durability in Iceland. Idorn, G.M., [1988.eng] 50-4228
- Confirming airworthiness prior to takeoff in icing conditions—pilot options. Eloranta, J.T., [1992.eng] 50-3798
- Contained controlled burning of spilled oil during the Exxon Valdez oil spill. Allen, A.A., [1990.eng] 50-471
- Covering. Kreiman, A.B., [1982.rus] 50-2054
- Danger of lake burst flooding from a Himalayan glacial lake. Watanabe, T., et al, [1995.eng] 50-3338
- De-icer. Briscoe, J.A., et al, [1988.eng] 50-2333
- Design guide for frost-protected shallow foundations. NABH Research Center, [1994.eng] 50-3579
- Developing the U.S. Coast Guard's Airborne Dispersant Delivery System capability. Bleicher, D., et al, [1995.eng] 50-5722
- Device for maintaining ice-free areas around a floating dredging pump. Barski, B.L., et al, [1992.rus] 50-1941
- Device for preventing the icing of supporting structures. Barkhanov, V.N., et al, [1992.rus] 50-1929
- Device for preventing water from freezing. Turutin, B.F., et al, [1992.rus] 50-1950
- Device for protecting a bridge from naleds. Dement'ev, V.A., et al, [1992.rus] 50-1923
- Device for protecting a pipeline from freezing. Diachenko, K.S., et al, [1992.rus] 50-1916

Covering

Cracking (fracturing)

- Device for strengthening ground using buried components. Ostukov, B.S., et al. [1992.rus] 50-2053
- Direct calcium magnesium acetate production. Flickinger, M.C., et al. [1992.eng] 50-2230
- Effects of fire in the taiga on the environment. Loutspeich, F.B., et al. [1971.eng] 50-3244
- Electric current heater for pipes. Vainio, U., [1990.eng] 50-2342
- Electromagnetic wave attenuating and deicing structure. Webster, S.D., et al. [1991.eng] 50-2343
- Emulsion breaking igniters: recent developments in oil spill igniter concepts. Guénette, C.C., et al. [1995.eng] 50-5729
- Engineers in Bosnia: an overview. Treleaven, D.L., [1996.eng] 50-5144
- Enhancing the encounter rate of a prototype weir skimmer. Delozier, M.J., [1995.eng] 50-5724
- Environmental activity management and control exercised by pipelaying association. Shishov, V.N., [1991.eng] 50-1762
- Evaluation of vacuum-insulated tubing for paraffin control at Norman Wells. Purdy, I.L., et al. [1991.eng] 50-1727
- Field experiments on uplift force on a steel pipe due to frost heaving. Fukuda, M., et al. [1989.rus] 50-2248
- Flameout: preventing ice and water ingestion flameouts in high- and low-bypass turbine engines. [1989.eng] 50-2985
- Frost damage proofed pile. Takeda, T., et al. [1989.eng] 50-2243
- Frost heave investigation of I 275. Novak, E.C., Jr., [1982.eng] 50-2058
- Frost heaving of forest tree seedlings: a review. Goulet, F., [1995.eng] 50-6520
- Geocryological typification of a territory according to frost heave formation conditions. Verkhovin, I.I., et al. [1993.rus] 50-113
- Ground deicing problems cause accidents. Sumwalt, R.L., III, [1993.eng] 50-2991
- Hydrometeorological aspects of flood hazards in Canada. Lawford, R.G., et al. [1995.eng] 50-1853
- Hydrotechnical structure for fast ice. Silin, A.V., et al. [1992.rus] 50-1937
- Ice jam flooding and mitigation: Lower Platte River basin, Nebraska. White, K.D., et al. [1996.eng] 50-4251
- Ice jam flooding on the Missouri River near Williston, North Dakota. Wuebben, J.L., et al. [1995.eng] 50-2707
- Ice jamming in upper Niagara River: processes and plan of study. Crissman, R.D., et al. [1995.eng] 50-362
- Ice-preventive covering. Persson, S., et al. [1992.eng] 50-2232
- Iceing menace. Glines, C.V., [1989.eng] 50-2986
- Impact of potential TV tower icing on a nearby proposed expressway. Courtney, F.E., [1993.eng] 50-6664
- In situ bioremediation in arctic Canada. Carss, J.G., et al. [1994.eng] 50-1472
- In-situ burning of Alaskan oils and emulsions. Buist, I., et al. [1996.eng] 50-5558
- In-situ burning of crude oil and emulsions in broken ice. Guénette, C.C., et al. [1996.eng] 50-5557
- In-situ burning of uncontained crude oil and emulsions. Guénette, C.C., et al. [1995.eng] 50-5728
- Inflight icing part II: making hard choices. Steenblik, J.W., [1995.eng] 50-4703
- Insulating structure. Ericsson, B., [1989.eng] 50-2340
- Integrated approach to shoreline mapping for spill response planning. Owens, E.H., et al. [1996.eng] 50-5561
- Legal means for the protection of the antarctic environment from human activities. Machowski, J., [1993.eng] 50-2181
- Living on ice: problems of urban development in Canada's north. French, H.M., [1994.eng] 50-6099
- Management of shoreline protection and treatment operations. Owens, E.H., [1996.eng] 50-5562
- Manual of ice protection. Sipos, B., ed. [1973.hun] 50-443
- Means of determining the anti-erosion stability of soil. Vladimirov, V.Kh., [1992.rus] 50-1922
- Method and apparatus for timed de-icing. Kugelman, M.M., et al. [1987.eng] 50-2334
- Method of controlling spring snow thawing on slopes. Feodorov, L., [1993.eng] 50-2238
- Method of preserving ice. Feldman, B.I.A., [1992.rus] 50-1947
- Mudflow-retaining structure. Bainatov, Zh.B., et al. [1992.rus] 50-1936
- Newest weapons in the battle against airframe icing. Czaplinski, V., [1994.eng] 50-2989
- Not yodelling but drowning. Edwards, R., [1995.eng] 50-1965
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge, Alaska. Department of Environmental Conservation. Division of Environmental Quality. [1990.eng] 50-3913
- Oil pollution in Arctic waters. Futsaeter, G., et al. [1991.eng] 50-3421
- Oil recovery and nearshore protection in Prince William Sound. Hood, S.D., [1995.eng] 50-5721
- Part 135 icing: is half a reg better than none?. DiNuono, G., [1993.eng] 50-2990
- Pneumatic regeneration system of a filtration substance in filters. Tomáides, M., et al. [1962.cze] 50-2228
- Preventing the pollution of indigenous streams during open pit placer mining. Tsygankov, A.V., et al. [1990.rus] 50-1604
- Prevention of icing in the intakes of aerospace propulsors. Scott, J.L., et al. [1991.eng] 50-2236
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 18th, Edmonton, Alberta, June 14-16, 1995. [1995.eng] 50-5715
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 19th, Calgary, Alberta, June 12-14, 1996. [1996.eng] 50-5551
- Project III.11.1: New concepts in removing ice. Ierusalimskii, A.V., [1996.eng] 50-4447
- Railroad tracks on ice-rich permafrost. Kondrat'ev, V.G., et al. [1992.rus] 50-1925
- Relationship of telluric currents to the corrosion of warm arctic pipelines. Sackinger, W.M., [1991.eng] 50-1725
- Remediation of a hydrocarbon spill in Alberta. Mitton, M.J., et al. [1995.eng] 50-5725
- Review of bioremediation experience in Alaska. Kellem, B.L., et al. [1994.eng] 50-1473
- Roof blisters: cause and cure. Korhonen, C.J., et al. [1995.eng] 50-394
- Sea ice over-flooding and oil spills in the Mackenzie Delta. Webb, R., [1995.eng] 50-5720
- Self-regulating deicer valve. Phillips, R.W., II., [1988.eng] 50-2244
- Smoke plume trajectory from *in situ* burning of crude oil in Alaska—field experiments. McGrattan, K.B., et al. [1995.eng] 50-5727
- Snow guard. Smeja, G.C., et al. [1995.eng] 50-3474
- Soil water pressure measurements in subzero air temperatures. Gordon, D.S., et al. [1995.eng] 50-420
- Splash board for car bodies. Szabó, Z., [1989.eng] 50-2341
- Structural ice control: review of existing methods. Tuhill, A.M., [1995.eng] 50-393
- Tailplane stall: the rime is one reason. Dow, J.P., Sr., et al. [1993.eng] 50-2978
- Techniques and procedures for route clearance. Schneck, W.C., Jr., et al. [1996.eng] 50-5143
- Technology adaptation to arctic mineral resource development. Zamoshch, M.N., [1991.eng] 50-1754
- Temporal weather impacts upon exterior intrusion detection systems. Ryerson, C.C., et al. [1995.eng] 50-4544
- Testing of radome material and special coatings for North Warning System. Crory, F.E., [1988.eng] 50-761
- Thermal anti-icing of aircraft structures. Arnold, M.J., et al. [1993.eng] 50-2234
- Trends in the development of radiation-protective polymer composite materials. Pavlenko, V.I., et al. [1995.rus] 50-3440
- Turboprop tailplane icing. Steenblik, J.W., [1992.eng] 50-2979
- Use of dispersants in broken ice. Brown, H.M., et al. [1996.eng] 50-5553
- Use of surfactants in oil spill remediation in cold regions. Tumeo, M.A., et al. [1995.eng] 50-5723
- Vitamin C in the prevention and treatment of frostbite. Parkayastha, S.S., et al. [1992.eng] 50-4224
- West coast Newfoundland oil spill sensitivity atlas. Dempsey, J., et al. [1995.eng] 50-1468
- Which deicing fluids should be used and how. DiNuono, G., [1992.eng] 50-2984
- Why icing causes tailplane stalls. Ingelman-Sundberg, M., [1992.eng] 50-2980
- Windshield defroster. Yoshikawa, H., et al. [1987.eng] 50-2242
- Windshield wiping device for automobiles. Kühbauch, G., [1993.ger] 50-2389
- WinOil: an oil spill model for Windows 95. McGillivray, D.G., et al. [1996.eng] 50-5555
- Winter flying—helicopters. [1985.eng] 50-3794
- Winter flying. [1985.eng] 50-3793
- Would a helmet law for snowmobile riders reduce head injuries. Björnström, U., et al. [1994.eng] 50-603
- See [also]: Bank protection (waterways); Flood control; Frost protection; Hail prevention; Ice prevention; Ice removal; Protection; Slope protection
- Covering**
- Application of foam insulation for remediation of degraded permafrost. Feklistov, V.N., et al. [1996.eng] 50-5472
- Composition for an anti-icing coating. Boichmanov, A.D., et al. [1992.rus] 50-1920
- Covering. Kreiman, A.B., [1982.rus] 50-2054
- Effects of freeze-thaw cycling on geomembrane sheets and their seams. Comer, A.I., et al. [1995.eng] 50-2864
- Frost damage proofed pile. Takeda, T., et al. [1989.eng] 50-2243
- Ice in the intake causes close call. [1990.eng] 50-3572
- Ice-preventive covering. Persson, S., et al. [1992.eng] 50-2232
- Portable shelter to protect bridges under construction from snow and cold. Kobayashi, Y., et al. [1992.jpn] 50-3134
- Thermal insulating geosynthetics as a soil protective cover substitute. Deutsch, W.L., Jr., [1995.eng] 50-2866
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- Crack nucleation in columnar ice—recent developments. Gupta, V., et al. [1995.eng] 50-2958
- Crack nucleation in saline ice with interacting inhomogeneities. Wu, M.S., et al. [1995.eng] 50-1142
- Crack nucleation mechanisms in columnar ice—recent developments. Gupta, V., et al. [1995.eng] 50-6281
- Crack velocities in freshwater and saline ice. Petrenko, V.F., et al. [1996.eng] 50-5299
- Ductile-to-brittle transition of compressed ice. Schulson, E.M., et al. [1995.eng] 50-2157
- Effect of size on distributed damage and fracture of sea ice. Bažant, Z.P., et al. [1995.eng] 50-6278
- Elastic fracture mechanics and fracture propagation in rock and ice. Fischer, M.P., [1994.eng] 50-696
- Fracture toughness of freshwater ice—part II: analysis and micrography. Weber, L.J., et al. [1996.eng] 50-5159
- Glacial quarrying: a simple theoretical model. Hallet, B., [1996.eng] 50-6233
- High strength concrete—freeze/thaw testing and cracking. Jacobsen, S., et al. [1995.eng] 50-3700
- Ice fracture and spalling in ice-structure interaction. Zou, B., et al. [1996.eng] 50-5473
- Ice microcracking due to grain boundary sliding. Elvin, A.A., et al. [1996.eng] 50-4185
- Ice/metal interfaces: fracture energy and fractography. Wei, Y., et al. [1996.eng] 50-5243
- Low temperature cracking and rutting in asphalt concrete pavements. Vinson, T.S., et al. [1996.eng] 50-6192
- Measurements of crack velocity in sea ice using electromagnetic techniques. Petrenko, V.F., et al. [1995.eng] 50-6291
- Mechanics of marine screw propeller ice cutting processes. Veitch, B., [1995.eng] 50-4154
- Microcracking during stress-relief of polycrystalline ice formed at high pressure. Meglis, I.L., et al. [1995.eng] 50-774
- Micromechanical study on deterioration of concrete due to freezing and thawing. Hori, M., et al. [1995.eng] 50-2684
- Microstructural features of freeze-thaw deterioration of concrete. Bakharev, T., et al. [1995.eng] 50-367
- Nucleation of microcracks in ice cubes compressed equally on all boundaries. Weiss, J., et al. [1996.eng] 50-5867
- Particle model for quasibrittle fracture and application to sea ice. Jirásek, M., et al. [1995.eng] 50-495
- Scale effects on the fracture and constitutive behavior of sea ice. Dempsey, J.P., et al. [1995.eng] 50-6279
- SEM observations of the microstructure of frost deteriorated and self-healed concretes. Jacobsen, S., et al. [1995.eng] 50-3701
- Stress interaction between multiple crevasses in glacier ice. Sas-solas, C., et al. [1996.eng] 50-5464
- Study of cryoseisms ("frostquakes") in the Sebago Lake region, Maine. Allen, R.P., [1993.eng] 50-5518
- Two-dimensional dynamic simulation of solid fracture. Part I: description of the model. Potapov, A.V., et al. [1995.eng] 50-947
- Two-dimensional dynamic simulation of solid fracture. Part II: examples. Potapov, A.V., et al. [1995.eng] 50-1097
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- Cracking (fracturing)**
- Aging and low-temperature cracking of asphalt concrete mixture. Kliever, J.E., et al. [1996.eng] 50-6426
- Comment on paper by Avila et al. Jayaratne, R., et al. [1996.eng] 50-5454
- Computational modelling of brittle ice fragmentation. Tuhkur, J., [1996.eng] 50-5942
- Conductivity effects on electromagnetic emissions (EME) from ice fracture. O'Keefe, S.G., et al. [1996.eng] 50-4221
- Crack filler works well—even in freezing weather. Shorten, R., [1995.eng] 50-1559
- Cracking in mortar due to freezing and thawing. Narita, T., et al. [1995.eng] 50-2674
- Cryogenic fissures as a factor of soil anisotropy. Kulikov, A.I., [1996.eng] 50-5449
- Distribution, origin, and hydraulic influence of fractures in a clay-rich glacial deposit. McKay, L.D., et al. [1995.eng] 50-3254
- Durability cracking from freeze-thaw in concrete. Janssen, D.J., et al. [1986.eng] 50-2801
- Ejection velocity of ice impact fragments. Arakawa, M., et al. [1995.eng] 50-2153
- Environmental-induced longitudinal cracking in cold regions pavements. Scher, R.L., [1996.eng] 50-6181
- Failure of columnar saline ice under biaxial compression. Schulson, E.M., et al. [1995.eng] 50-2119
- Flow properties of crushed ice. Singh, S.K., et al. [1995.eng] 50-2999
- Fracture in the compression of a brittle material—columnar grained ice. Wu, H.C., et al. [1974.eng] 50-3788
- Fracture toughness of freshwater ice—part I: experimental technique and results. Weber, L.J., et al. [1996.eng] 50-5158
- Fracture toughness of ice and firn determined from the modified ring test. Fischer, M.P., et al. [1995.eng] 50-458
- Frost durability of high strength concrete: effect of internal cracking on ice formation. Jacobsen, S., et al. [1996.eng] 50-6097
- Frost heave investigation of I 275. Novak, E.C., Jr., [1982.eng] 50-2058
- Glacial quarrying: a simple theoretical model. Hallet, B., [1996.eng] 50-6233
- Ice fracture and spalling in ice-structure interaction. Zou, B., et al. [1996.eng] 50-5473
- Ice/metal interfaces: fracture energy and fractography. Wei, Y., et al. [1996.eng] 50-5243
- Impact fracturing of frozen ground and rocks. Fedulov, A.I., et al. [1996.eng] 50-4740
- Impact of potential TV tower icing on a nearby proposed expressway. Courtney, F.E., [1993.eng] 50-6664
- Indentation pressure in ice/vertical structure interaction. Takeuchi, T., et al. [1995.eng] 50-2738
- Large-scale loading and collapse of natural sea ice and natural-artificial ice laminates. Lichtenberger, G.J., [1991.eng] 50-1718
- Mechanical properties of materials at low temperatures. Wigley, D.A., [1968.eng] 50-6049
- Mechanism of deterioration of concrete under severe environment. Podval'nyi, A.M., [1995.eng] 50-2686

Cracks

- Microcracking during stress-relief of polycrystalline ice formed at high pressure. Meglis, I.L., et al. [1995,eng] 50-774
- Modelling of continuous crushing of ice in front of offshore structures. Brown, T.G., et al. [1995,eng] 50-575
- Pleistocene glacier thicknesses inferred from electron microscopy of till microtextures. Mahaney, W.C., [1995,eng] 50-3365
- Predicting brick frost-resistance. I. Robinson, G.C., et al. [1995,eng] 50-1109
- Preliminary results from fatigue tests on in situ sea ice beams. Haskell, T.G., et al. [1996,eng] 50-5469
- Primary and secondary containment of hazardous substances in cold regions with HDPE liner. Richards, F.T., et al. [1991,eng] 50-1710
- Rapid glaciation of slightly supercooled cumulus clouds. Mason, B.J., [1996,eng] 50-5010
- Specifying fracture toughness ranks high in line pipe selection. Kiefner, J.F., et al. [1995,eng] 50-4397
- Thermal stress measurements in asphalt concrete. Janoo, V.C., et al. [1993,eng] 50-760
- Triaxial experiments on iceberg and glacier ice. Gagnon, R.E., et al. [1995,eng] 50-1874
- Wing crack models of the brittle compressive failure of ice. Nixon, W.A., [1996,eng] 50-3826
- See [also]: Fracturing

Cracks

See [also]: Ice cracks

Creep

- Creep, shrinkage, frost, and sulphate resistance of high strength concrete. Ghosh, S., et al. [1995,eng] 50-577
- Field experiments on uplift force on a steel pipe due to frost heaving. Fukuda, M., et al. [1989,rus] 50-2248
- Model pile tests in saline soils. Christopherson, A., et al. [1991,eng] 50-1719
- See [also]: Ice creep; Rheology; Snow creep; Soil creep

Creep properties

See [also]: Rheology

Crevasse detection

- Antarctic commute: CRREL searches for safe land route to South Pole. Chalmers, P., [1996,eng] 50-3239
- Digital enhancement of ground probing radar data. Rees, H.V., et al. [1992,eng] 50-66
- Ground penetrating radar. Pilon, J.A., ed. [1992,eng] 50-54
- Radar investigations of firm structures and crevasses. Glover, J.M., et al. [1992,eng] 50-58

Crevasses

- Analysis of interference effects on surface-impedance mapping of glacier thickness. Thiel, D.V., et al. [1996,eng] 50-4889
- Changes in the configuration of ice stream flow from the West Antarctic ice sheet. Jacobel, R.W., et al. [1996,eng] 50-4360
- Ice sheet surface features between 80 and 90S, along 90W. Yoshikawa, K., [1995,eng] 50-4386
- Ice velocities near a relic flow feature on Siple Dome. Jacobel, R.W., et al. [1994,eng] 50-1891
- Stress interaction between multiple crevasses in glacier ice. Sas-solas, C., et al. [1996,eng] 50-5464

Crossings

See [also]: Bridges; River crossings

Crude oil

- \$1.5 billion development plan set for BP's Alaskan Beaufort Sea fields. [1996,eng] 50-5290
- Aerial surveillance of oil sheen following the Exxon Valdez oil spill shoreline cleanup. Taft, D.G., et al. [1995,eng] 50-3919
- Analysis of the Komineft pipeline oil. Lambert, P., et al. [1995,eng] 50-5734
- Another look at oil transportation in and from the arctic environment. Marsden, S.S., Jr., et al. [1991,eng] 50-1711
- Ardalin field flows despite weather, terrain. Britton, M.W., et al. [1995,eng] 50-4396
- Benthic sediment hydrocarbon sources following the Exxon Valdez oil spill. Page, D.S., et al. [1995,eng] 50-3915
- Challenges for the development of hydrocarbon fields in the Barents Sea. Gudmestad, O.T., et al. [1995,eng] 50-209
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995,eng] 50-1863
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995,eng] 50-5717
- Cretaceous/Tertiary marine stratigraphy and petroleum potential. Tarim Basin. Tang, T.F., et al. [1989,chi] 50-1847
- Effect of cryospheric cooling on the distribution of oil and gas in Siberian deposits. Bol'shakov, I.U.A., et al. [1989,rus] 50-2259
- Environment and research in Greenland and Jameson Land. Di Cesare, F., et al. [1994,ita] 50-2819
- Environmental factors influencing the biodegradation of petroleum hydrocarbons in cold seawater. Siron, R., et al. [1995,eng] 50-651
- Experimental studies of the interaction of oil with cryogenic rocks. Ershov, E.D., et al. [1996,rus] 50-6823
- Exploration and development of oil and gas field on the shelf of Sakhalin. Bogdanchikov, S.M., et al. [1995,eng] 50-168
- Exploration for hydrocarbon deposits and engineering preparation of oil and gas provinces. Akhmetshin, A.A., et al. [1996,rus] 50-6371
- Fingerprinting hydrocarbons in the biological resources of the Exxon Valdez spill area. Bence, A.E., et al. [1995,eng] 50-3916

- Geochemistry of organic matter in oil- and gas-bearing sediments in Western Yakutia. Bodunov, E.I., ed. [1984,rus] 50-5006
- Geology and mining in Svalbard. Cipitelli, G., [1994,ita] 50-2820
- In situ bioremediation in arctic Canada. Carss, J.G., et al. [1994,eng] 50-1472
- Natural cleaning of oiled coarse sediment shorelines in arctic and Atlantic Canada. Owens, E.H., et al. [1994,eng] 50-6231
- North Sea and Norwegian Sea hydrocarbon exploration. Alberti Di Catenaja, C., et al. [1994,ita] 50-2818
- Norwegian petroleum resources with focus on challenges and opportunities in the Barents Sea. Aamodt, F.R., [1995,eng] 50-174
- Oil and gas fields of Qinghai and Xizang. Gu, S.S., ed. [1990,chi] 50-2177
- Paleozoic petroleum source rocks in Saskatchewan and Manitoba. Osadetz, K.G., et al. [1995,eng] 50-232
- Petroleum exploration opportunities on the U.S.-Russia Chukchi Sea continental shelf. Warren, T., et al. [1995,eng] 50-210
- Preliminary study of tankers for year-round transportation of crude oil from Ob Gulf. Tsoi, L.G., et al. [1996,eng] 50-4461
- Prince William Sound, Alaska beach tar ball origins. Kven-volden, K.A., et al. [1995,eng] 50-1864
- Principal mineral resources and their distribution on the Qinghai-Xizang Plateau. Xu, Z.Y., et al. [1991,chi] 50-2295
- Raw oil and gas bedrock potential of organic matter sediments. Gretskaia, E.V., [1990,rus] 50-4942
- Recovery target: Prudhoe Bay heavy crude oil. [1995,eng] 50-3690
- Russia opens far east offshore. [1993,eng] 50-5440
- Searching for ways of stimulating oil biodegradation in soil. Kazakova, E.N., et al. [1994,rus] 50-281
- Seismic prospecting for oil and gas in regions with cryolitho-zone development. Bevezko, I.U.P., [1989,rus] 50-2260
- Siberian company starts up modular refinery. [1996,eng] 50-5575
- Skimmers help clear Alaskan spillage. [1989,eng] 50-5648
- Submarine cryolitholite of Russian Arctic off-shore: problems of hydrocarbon recovery. Kul'pin, L.G., et al. [1995,eng] 50-2961
- Use of acrolein as a hydrogen sulfide scavenger in multiphase production. Howell, J.J., et al. [1991,eng] 50-1704
- Crustal structure
- See [also]: Earth crust; Tectonics
- Cryobiology
- Analysis of thermal stresses around a cryosurgical probe. Rabin, Y., et al. [1996,eng] 50-5814
- Antifreeze proteins and their potential use in frozen foods. Griffith, M., et al. [1995,eng] 50-5691
- Antifreeze proteins in winter rye are similar to pathogenesis-related proteins. Hon, W.C., et al. [1995,eng] 50-2853
- Bacterial ice nucleation and its potential applications in the food industry. Li, J.K., et al. [1995,eng] 50-1956
- Biochemistry of bacterial ice nuclei. Fall, R., et al. [1995,eng] 50-3274
- Biological ice nucleation and its applications. Lee, R.E., Jr., ed. [1995,eng] 50-3270
- Biology of high latitude kelp. Dunton, K.H., et al. [1995,eng] 50-4139
- Changes of model mixtures during freezing and drying. Shalae, E.U., et al. [1996,eng] 50-4531
- Characterization of a novel ice-nucleating bacterium. Kawahara, H., et al. [1995,eng] 50-1960
- Climate change and biological oceanography of the Arctic Ocean. Gradinger, R., [1995,eng] 50-5233
- Cold acclimation of rye leaves during freeze/thaw cycles. Uemura, M., et al. [1995,eng] 50-3343
- Control of epiphytic ice nucleation-active bacteria for management of plant frost injury. Lindow, S.E., [1995,eng] 50-3283
- Copepod adaptability to temperature and salinity in a salt lake. Wang, Z.P., et al. [1989,chi] 50-6777
- Crystallization of ice in glycerol solutions. pt. I. Hey, J.M., et al. [1996,eng] 50-5813
- Deep supercooling in buds of woody plants. Quamme, H.A., [1995,eng] 50-3280
- Deep supercooling in woody plants and the role of cell wall structure. Wisniewski, M., [1995,eng] 50-3279
- Design of capacitor to measure permittivity of supercooled aqueous solutions. Wolter, F., et al. [1996,eng] 50-5503
- Effect of electroporation on intracellular ice formation in rye leaf protoplasts. Chandrasekaran, M., et al. [1995,eng] 50-1465
- Effect of salinity on oxygen metabolism of copepods in a salt lake. Wang, Z.P., [1989,chi] 50-6778
- Effects of plant cellular tissue structure on freezing tolerance. Fujikawa, S., et al. [1996,eng] 50-5675
- Electron cryo-microscopy of graphite in amorphous ice. Bot-tcher, B., [1995,eng] 50-1647
- Electron-beam-induced amorphization of ice III or IX obtained by high-pressure freezing. Sartori, N., et al. [1996,eng] 50-6531
- Fish antifreeze protein inhibition of liposome leakage. Hays, L.M., et al. [1996,eng] 50-6220
- Fluorimetric assessment of bacteria after freeze-thawing. Puchkov, E.O., et al. [1995,eng] 50-5865
- Formation of poly(vinyl alcohol) cryogels through polymer solution freezing-thawing. Lozinskii, V.I., et al. [1995,eng] 50-1177

- Freeze preparation of plant tissue for electron microscopy. Adler, K., et al. [1996,eng] 50-5485
- Freezing tolerance in plants: an overview. Chen, T.H.H., et al. [1995,eng] 50-3277
- High resolution study of the platelet ice ecosystem in McMurdo Sound. Arrigo, K.R., et al. [1995,eng] 50-2522
- Ice active bacteria gene dynamics. Drinas, C., et al. [1995,eng] 50-2347
- Ice nucleation activity associated with plants and fungi. Ashworth, E.N., et al. [1995,eng] 50-3278
- Ice nucleation-active genes and proteins. Warren, G.J., [1995,eng] 50-3275
- Insects and freezing. Block, W., [1995,eng] 50-4087
- Insects in deep freeze. Barnes-Svarney, P., [1992,eng] 50-3035
- Isolation and identification of antifreeze protein with high activity in *Anemopiianthus mongolicus*. Fei, Y.B., et al. [1994,chi] 50-1835
- Low temperature ecology of a plant root bacterium. Sun, X.Y., et al. [1995,eng] 50-2733
- Microbial life in permafrost: a historical review. Gilichinski, D.A., et al. [1996,eng] 50-6701
- Microorganisms sustaining large animals in seasonally ice-covered seas. Legendre, L., [1996,eng] 50-5907
- Molecular modeling of the three-dimensional structure of bacterial ice proteins. Kajava, A.V., [1995,eng] 50-3276
- Molecular studies of a winter flounder antifreeze polypeptide. McDonald, S.M., [1995,eng] 50-676
- Morphology and biochemistry of frozen spermatozoa of male minke whales. Fukui, Y., et al. [1996,eng] 50-4613
- New simple route to the synthesis of protease substrates in ice. Ullmann, D., et al. [1996,eng] 50-6713
- Permafrost microbiology. Gilichinski, D.A., et al. [1996,rus] 50-6372
- Perspectives of plant cold tolerance: physiology and molecular responses. Kaye, C., et al. [1995,eng] 50-4085
- Role of nucleation in cryopreservation. Fahy, G.M., [1995,eng] 50-3288
- Roles of ice nucleators in cold tolerant invertebrates. Duman, J.G., et al. [1995,eng] 50-3281
- Scanning microscopy of an autofluorescent biological substance. Evans, J., et al. [1996,eng] 50-4532
- Spectrometry of nucleic acid frozen solutions. Boriak, O.A., et al. [1996,eng] 50-4046
- Spectroscopic damage to hydrated specimens in vitreous ice. Leapman, R.D., et al. [1995,eng] 50-1648
- Supercooling and ice nucleation in vertebrate ectotherms. Costanzo, J.P., et al. [1995,eng] 50-3282
- Survival and regeneration of dormant silver birch buds stored at super-low temperatures. Rynänen, L., [1996,eng] 50-6745
- Variables of cryopreservation of marine microalgae. Cañavate, J.P., et al. [1995,eng] 50-4327
- Vitrification of articular cartilage by high-pressure freezing. Studer, D., et al. [1995,eng] 50-6589
- Winter injury and developmental cold tolerance of red spruce. DeHayes, D.H., [1992,eng] 50-4057
- X-ray analysis of ion distribution in frozen salt droplets. Orlovich, D.A., et al. [1995,eng] 50-6590

Cryogenic processes

See [also]: Geocryology

Cryogenic soils

- Analyzing the stability of soil-vegetation cover under mechanical forces. Zvereva, T.S., [1994,rus] 50-273
- Bioremediation of a petroleum-contaminated cryic soil. Walworth, J.L., et al. [1995,eng] 50-781
- Chemical weathering in high arctic soils, Spitsbergen. Blümel, W.D., et al. [1994,ger] 50-1593
- Cryogenic landfills on the Yamal Peninsula, Russia: preliminary observations. Leibman, M.O., [1996,eng] 50-6703
- Cryogenic movements of soil in Hornsund. Klementowski, J., [1989,pol] 50-2899
- Cryogenic state of soil in the cryolithozone (Yakutia). Gavril'ev, P.P., et al. [1996,rus] 50-6844
- Engineering geological characteristics of solifluctive soil (Yamal Peninsula). Platov, N.A., et al. [1985,rus] 50-244
- Evolution of soils in the basin of the middle reach of the Ber-elek River (Upper Kolyma River). Pavlov, B.A., et al. [1995,eng] 50-3877
- Frost heave susceptibility in Transbaikalia. Sal'mikov, P.I., [1996,rus] 50-6399
- Frozen ground landscapes of Yakutia: explanatory notes to a map. Fedorov, A.N., et al. [1989,rus] 50-5005
- Genetic and ecological significance of alpine debris mulch soils. Liu, C.D., [1992,chi] 50-1493
- Geomorphological studies on the arid regions of northwest China. Yang, X.P., [1991,ger] 50-2770
- Ice formation and structure in various freezing soils. Wang, J.C., et al. [1995,eng] 50-4515
- Influence of temperature and pressure on cryogenic structure of freezing soil. Wang, J.C., et al. [1995,chi] 50-5636
- Late Quaternary sediments of the Qinghai-Xizang Plateau. Frenzel, B., et al. [1994,ger] 50-4779
- Loess distribution, origin, and chronology. Pécsi, M., [1990,ger] 50-1794
- Mapping of soil groups on Germania Peninsula in Spitsbergen. Eberle, J., et al. [1994,ger] 50-1592
- Migration of chemical elements in frozen rocks. Chuvilin, E.M., et al. [1996,rus] 50-6820
- Pedogenic processes and evolution of the soils on moraines in alpine periglacial environments. Liu, G.N., et al. [1995,chi] 50-5631

Cryogenic structures

Damage

- Periglacial landforms and sediments in Argentina. Trombotto, D., [1991,ger] 50-1684
- Periglacial landforms and sediments. Semmel, A., [1990,ger] 50-1793
- Periglacial overlying strata in the Bavarian forest. Völkel, J., [1993,eng] 50-1679
- Potential for bioremediation of fuel-contaminated soil in Antarctica. Wardell, L.J., [1995,eng] 50-782
- Proceedings of the First Conference of Russian Geocryologists. June 3-5, 1996. Moscow, Vol.2. Konferentsia geokriologov Rossi, 1st, Moscow State University, June 3-5, 1996, [1996,rus] 50-6808
- Quaternary of the loess plateau. Sun, J.Z., ed, et al, [1991,chi] 50-2010
- Requirements for heap leaching under permafrost conditions. Putsyn, A.B., [1995,eng] 50-418
- Role of cryosols in the accumulation of current bottom sediments of the Arctic Ocean. Levitan, M.A., et al, [1995,rus] 50-4119
- Soil degradation in the steppes of northern Mongolia. Opp, C., et al, [1993,eng] 50-1680
- Soil development on a glacier foreland, Kerguelen Is. Frenot, Y., et al, [1995,eng] 50-71
- Soil formation in floodplains in high latitudes. Gafurov, F.G., et al, [1992,rus] 50-22
- Soil studies in the region of southern Bellsund area (Western Spitsbergen). Klimowicz, Z., et al, [1993,eng] 50-2205
- Soils in frozen regions of the biosphere, their function and use. Makey, O.V., [1990,rus] 50-21
- Soils of Xizang (Tibet). Gao, Y.X., et al, [1985,chi] 50-2297
- Solifluction in northern Eurasia: a review. Serebrianniy, L.R., et al, [1993,eng] 50-833
- Some contributions to the study of landforms and geomorphic processes. Barsch, D., ed, et al, [1993,eng] 50-1671
- Study on soil erosion in Inner Mongolia. Zhao, Y., et al, [1989,chi] 50-3269
- Takyr soils and cold desert gypsic soils in the western Kunlun Mountains. Gu, G.A., et al, [1992,chi] 50-1494
- Water limitations and plant community development in a polar desert. Gold, W.G., et al, [1995,eng] 50-2463
- Cryogenic structures**
- Cryogenic structure of surface deposits in Central Yakutia. Konchenko, L.A., [1996,rus] 50-6378
- Cryogenic texture development during freezing of an active layer from beneath. Konstantinov, S.A., [1990,rus] 50-1611
- Cryolithological structure of Quaternary deposits on Wrangel Island. Kotov, A.N., et al, [1996,rus] 50-6379
- Cryolithozone structure in an oil and gas-bearing province supply. Dedeev, V.A., et al, [1990,rus] 50-1630
- Effect of diagenesis on the cryogenic structure of marine and lacustrine deposits. Khumenkov, A.N., et al, [1985,rus] 50-245
- Engineering role of processes caused by the interaction of natural and artificial factors. Glotov, V.E., [1991,rus] 50-438
- Exploration for hydrocarbon deposits and engineering preparation of oil and gas provinces. Akhmetshin, A.A., et al, [1996,rus] 50-6371
- General morphogenetic classification of the cryogenic textures of coarse detrital rocks. Shesternev, D.M., [1993,rus] 50-123
- Geocryological conditions of the eastern Bambiuyka basin. Znamenskii, E.N., [1983,rus] 50-316
- Late Pleistocene soil formation on coastal lowlands of northern Yakutia. Gubin, S.V., [1995,eng] 50-963
- Mesomorphic soil formation in the cryogenic taiga semihumid sector of central Siberia. Ershov, I.U.I., [1995,eng] 50-2146
- Moisture transfer, water-soluble substances and structural transformation during freezing. Brovka, G.P., et al, [1996,rus] 50-6821
- Origin and thermal evolution of icy satellites. Coradini, A., et al, [1995,eng] 50-1069
- Palaeogeocryogenic analysis of loess-paleosol sequences. Velichko, A.A., et al, [1995,eng] 50-1036
- Paleogeographic conditions for the formation of ice in homogenous age varved clays. Karpov, E.G., et al, [1996,rus] 50-6377
- Probability model for the structure of frozen strata in Central and Eastern Siberia. IAKupov, V.S., et al, [1996,rus] 50-6370
- Seasonal frost mounds of arctic beaches, Tuktoyaktuk Peninsula, Northwest Territories. Campeau, S., et al, [1995,fre] 50-4882
- Secondary precipitates in Pleistocene and present cryogenic environments. Vogt, T., et al, [1996,eng] 50-4045
- Structure of cryogenic strata in the Arctic and the history of their development. Konishchev, V.N., [1990,rus] 50-1623
- Cryogenic textures**
- Cryogenic texture development during freezing of an active layer from beneath. Konstantinov, S.A., [1990,rus] 50-1611
- General morphogenetic classification of the cryogenic textures of coarse detrital rocks. Shesternev, D.M., [1993,rus] 50-123
- Ice accumulation in rock streams of northern Transbaikalia. Verkhovurov, A.G., [1993,rus] 50-118
- Cryogenics**
- Analysis of thermal stresses around a cryosurgical probe. Rabin, Y., et al, [1996,eng] 50-5814
- Artificial peroxides produced during cryogenic sampling of ambient air. Staffelbach, T., et al, [1995,eng] 50-1187
- Comments on the crystal structure of solid trichlorofluoromethane. Prado, P., et al, [1995,eng] 50-3144
- Condensation on cooled surfaces of optical devices at the cosmic conditions. Drobyshev, A., et al, [1992,eng] 50-624
- Cryo-ultramicrotomy of individual latex particles for examination of internal morphology. Marcelli, A.M., [1995,eng] 50-4958
- Cryogenic properties of polymers. Yano, O., et al, [1995,eng] 50-1550
- Crystal structure of dichlorodifluoromethane. Pridmore, R.W., et al, [1996,eng] 50-4695
- Dynamic deformation characteristics of undisturbed riverbed gravels. Yasuda, N., et al, [1996,eng] 50-4861
- Electron microscopy of frozen pea leaf cellular microstructure. Kaneko, Y., et al, [1996,eng] 50-5252
- Electron-beam-induced amorphization of ice III or IX obtained by high-pressure freezing. Sartori, N., et al, [1996,eng] 50-6531
- Freezable wax plug for pipeline. [1992,eng] 50-4414
- Freezing and melting of mercury in porous glass. Kumzerov, I.U.A., et al, [1995,eng] 50-1132
- Heat flux monitoring during cryogenic pipe freezing: a case study. Tanner, A.C.R., et al, [1996,eng] 50-5477
- Laser ablation of organic molecules from frozen matrices. Belov, M.E., et al, [1995,eng] 50-3720
- Mechanical behavior of 18 Ni 200 grade maraging steel at cryogenic temperatures. Wagner, J.A., [1986,eng] 50-4101
- Mechanical behavior of 18 Ni 200 grade maraging steel at cryogenic temperatures. Wagner, J.A., [1986,eng] 50-4101
- Mechanical properties of materials at low temperatures. Wigley, D.A., [1968,eng] 50-6049
- Molecular dynamics study of the freezing of clusters of chalcogen hexafluorides. Kinney, K.E., et al, [1996,eng] 50-5780
- Morphology and biochemistry of frozen spermatozoa of male minke whales. Fukui, Y., et al, [1996,eng] 50-4613
- Neutral and ionized PAHs: contribution to the interstellar extinction. Salama, F., et al, [1995,eng] 50-3021
- New laser plasma source for extreme-ultraviolet lithography. Jin, F., et al, [1995,eng] 50-3678
- Scanning electron microscopy of free water in frozen plant tissues. Yalich, R.W., et al, [1996,eng] 50-5209
- Scavenging of electrons and radicals in frozen chloride-alcohol glasses. Kaleafski, J., [1996,eng] 50-3526
- Spectrometry of nucleic acid frozen solutions. Boriak, O.A., et al, [1996,eng] 50-4046
- Structure of solid fluoromethane. Torrie, B.H., et al, [1996,eng] 50-4696
- Vitrification of articular cartilage by high-pressure freezing. Studer, D., et al, [1995,eng] 50-6589
- X-ray analysis of frozen clathrate hydrates. Bednarek, J., et al, [1996,eng] 50-4555
- X-ray and neutron scattering studies of the structure of water at a hydrophobic surface. Bellissent-Funel, M.C., et al, [1996,eng] 50-5713
- See [also]: Refrigeration
- Cryopedology**
- See [also]: Geocryology
- Cryoplanation**
- See [also]: Altiplanation
- Cryoturbation**
- Active patterned ground and cryoturbation on Muckish Mountain, Co. Donegal, Ireland. Wilson, P., et al, [1995,eng] 50-665
- Alpine tree line soil erosion derived from bedrock geomorphological map analysis. Stocker, E., [1996,ger] 50-6678
- European soil thermal contraction related to ice sheet dynamics. van Vliet-Lanoë, B., [1996,fre] 50-6340
- Paleogeographic significance of Norwegian block field periglacial processes. Sellier, D., [1995,fre] 50-4878
- Periglacial landforms and sediments in Argentina. Trombotto, D., [1991,ger] 50-1684
- Pliocene paleoclimate of Dry Valleys of Southern Victoria Land. Marchant, D.R., et al, [1996,eng] 50-6629
- Solifluction and related slope processes in the mountains of central Asia (Mongolia). Pekala, K., et al, [1993,eng] 50-832
- Crystal defects**
- Behavior of point defects in ice crystals revealed by X-ray topography. Hondoh, T., et al, [1982,eng] 50-5800
- Dynamical processes of dislocations and point defects in ice crystal. Higashi, A., et al, [1985,jpn] 50-5793
- Crystal growth**
- Fluctuations during melting. Grimsditch, M., et al, [1996,eng] 50-6345
- Microscopic dynamics of glycerol in its crystalline and glassy states. Bermejo, F.J., et al, [1996,eng] 50-4418
- See [also]: Ice crystal growth; Snow crystal growth
- Crystal optics**
- See [also]: Ice crystal optics
- Crystallization**
- See [also]: Ice crystal growth; Recrystallization; Snow crystal growth
- Crystallization nuclei**
- See [also]: Ice crystal nuclei
- Crystals**
- Comments on the crystal structure of solid trichlorofluoromethane. Prado, P., et al, [1995,eng] 50-3144
- See [also]: Ice crystals; Snow crystals
- Cryospheres**
- See [also]: Ground ice
- Cubic ice**
- Compression of ice to 210 gigapascals. Goncharov, A.F., et al, [1996,eng] 50-5445
- High-pressure elastic properties of the VI and VII phase of ice in dense H₂O and D₂O. Shimizu, H., et al, [1996,eng] 50-4355
- Currents**
- See [also]: Ocean currents; Tidal currents
- Cutting**
- See [also]: Ice cutting
- Cyclic variations**
- See [also]: Periodic variations
- Cyclones**
- See [also]: Atmospheric disturbances
- Czech Republic**
- Choosing the route of overhead lines in the Czech Republic. Zálešák, Z., et al, [1996,eng] 50-5398
- Damage**
- 1994 Lugee Tsho glacial lake outburst flood, Bhutan Himalaya. Watanabe, T., et al, [1996,eng] 50-4236
- 1996 avalanche cycle of intermountain West. Tremper, B., [1996,eng] 50-4761
- Analysis of thermal stresses around a cryosurgical probe. Rabin, Y., et al, [1996,eng] 50-5814
- Antarctic phytoplankton and DNA library from communities exposed to ultraviolet-B. Jovine, R.V.M., et al, [1994,eng] 50-4246
- Anthropogenic impacts on biodiversity in the Arctic. Young, O.R., et al, [1995,eng] 50-3899
- Assessing frost damage in compacted clay liners. Benson, C.H., et al, [1995,eng] 50-1133
- Avalanche damage at Bridal Veil, Utah. Griffith, R., [1996,eng] 50-4760
- Avalanche report from Mt. Shasta. Bachman, D., [1996,eng] 50-4759
- Chlorophyll fluorescence as measure of Douglas fir cold hardiness. Fisker, S.E., et al, [1995,eng] 50-1287
- Chlorophyll fluorescence as spruce frost hardiness indicator. Binder, W.D., et al, [1996,eng] 50-6519
- Climatic significance of bristlecone pine frost-ring records. Brunstein, F.C., [1996,eng] 50-4338
- Cold acclimation of *Arabidopsis thaliana*. Uemura, M., et al, [1995,eng] 50-1462
- Cold acclimation of rye leaves during freeze/thaw cycles. Uemura, M., et al, [1995,eng] 50-3343
- Contact force and damage evolution in a moving uniaxial ice bar. Shin, J.G., et al, [1990,eng] 50-99
- Creep of frozen soil by damage mechanics. Miao, T.D., et al, [1995,eng] 50-1556
- Crop-hail damage in the Midwest corn belt. Hillaker, H.J., Jr., et al, [1985,eng] 50-4592
- Damage to equipment and structures in the North. Novopashin, M.D., et al, [1993,rus] 50-465
- Desiccation of white spruce seedlings planted in the southern boreal forest of British Columbia. Krasowski, M.J., et al, [1995,eng] 50-766
- Effects of enhanced UV-B radiation on the growth of dwarf shrubs in a subarctic heathland. Johanson, U., et al, [1995,eng] 50-3618
- Effects of mammals on ecosystem change at the Pleistocene-Holocene boundary. Zimov, S.A., et al, [1995,eng] 50-3895
- Effects of vehicle tracks on arctic tundra. Kevan, P.G., et al, [1995,eng] 50-962
- Estimating ice-active bacterial population on mango leaves. Cazorla, F.M., et al, [1995,eng] 50-1652
- Evaluation of frost action on concrete. Kleiner, V.D., [1996,eng] 50-4367
- Extreme fire seasons in the forests of Evenkia. Ivanova, G.A., [1995,eng] 50-4700
- Forest damage mapping with multitemporal ERS-1 SAR data. Rauste, Y., [1994,eng] 50-3229
- Frost damage to northern trees during climatic warming. Hänninen, H., [1996,eng] 50-6631
- Frost hardness of 16 European provenances of sessile oak growing in Scotland. Deans, J.D., et al, [1996,eng] 50-4329
- Frost heave research at the University of Nottingham. Jones, R.H., [1977,eng] 50-2312
- Frost heaving of forest tree seedlings: a review. Goulet, F., [1995,eng] 50-6520
- Hail in southwestern France. 1: Hailfall characteristics and hail-storm environment. Dessens, J., [1986,eng] 50-4911
- Hail prevention in southwestern France. Dessens, J., [1986,eng] 50-4912
- Landscape damage by skiing at the Schaaninsland in the Black Forest, Germany. Ries, J.B., [1996,eng] 50-4234
- Lessons from failures in metal-structure buildings and structures in the North: a manual. Kornilov, T.A., et al, [1995,rus] 50-5140
- Modelling of continuous crushing of ice in front of offshore structures. Brown, T.G., et al, [1995,eng] 50-575
- Offshore development in iceberg-infested waters with the use of a concrete protective barrier. Broughton, P., et al, [1991,eng] 50-1731
- Plant ecology during desertification of an arctic salt marsh. Srivastava, D.S., et al, [1996,eng] 50-4523
- Power loss in inclement weather. Volk, L., [1992,eng] 50-3796
- Proceedings. Seminar on the Prediction of Frost Heave, Nottingham, England, Apr. 9, 1981, [1981,eng] 50-2135
- Project I: natural conditions and ice navigation. Buzuev, A., [1996,eng] 50-4435
- Revegetation of shrub tundra in disturbed soils. Harper, K.A., et al, [1996,eng] 50-5490
- Saturated cemented porous material permeability during freezing. Kralj, B., et al, [1996,eng] 50-5024
- Snow damage to spruce trees during a fertilization experiment. Valinger, E., et al, [1996,eng] 50-4330

Damping

- Spectroscopic damage to hydrated specimens in vitreous ice.
Leapman, R.D., et al. [1995,eng] 50-1648
- Statistical analysis of freezing tolerance indices from plant electrolyte variations. Anisko, T., et al. [1995,eng] 50-3612
- Swedish forest production losses due to summer frost. Verwijst, T., et al. [1996,eng] 50-6753
- Tree tissue xylem dysfunction from freezing stress. Hacke, U., et al. [1996,eng] 50-5773
- Underwater maintenance and inspection of CP systems (Cook Inlet, Alaska). Daley, J.C., et al. [1996,eng] 50-5502
- Urban hailstorms: a view from Alberta. Charlton, R.B., et al. [1995,eng] 50-3960
- Wear resistant concrete for pavements. Pedersen, N., [1988,eng] 50-4227

Damping

- Behavior of crystals in kimberlite and ice under the action of shock waves. Beloborodov, V.N., et al. [1995,eng] 50-1206
- Cable galloping model for thin ice accretions. McComber, P., et al. [1996,eng] 50-5381
- Earthquake response offshore structures surrounded by ice floes (Part 1). Okamoto, N., et al. [1996,jpn] 50-5882
- Earthquake shock absorbers for bridges in cold regions. Sato, M., et al. [1993,jpn] 50-2839
- Experience and analysis of galloping phenomenon in overhead transmission lines in Iran. Javahermandeh, M., [1996,eng] 50-5404
- Fifteen years field trials of galloping controls for overhead power lines. Havard, D.G., [1996,eng] 50-5382
- Galloping of ice electrical transmission lines. Popplewell, N., et al. [1996,eng] 50-5377
- Shear moduli and damping in frozen and unfrozen clay by resonant column tests. Al-Hunaidi, M.O., et al. [1996,eng] 50-5817
- Snow accretion and galloping on overhead transmission lines. Ozawa, A., et al. [1996,eng] 50-5371
- Some effects of conductor twisting on galloping. Richardson, A.S., Jr., [1980,eng] 50-3698

Dams

- Annual variation of the temperature field in a concrete dam. Daoud, M., et al. [1996,eng] 50-6439
- Automation opportunities at Corps of Engineers locks and dams. Carey, K.L., [1995,eng] 50-1518
- Catline rehabilitation and restoration. Bolstad, R., [1971,eng] 50-3245
- Dam construction for Norway's largest hydropower reservoir. Karlsen, L.E., et al. [1995,eng] 50-5707
- Damming James Bay: I. Potential impacts on coastal climate and the water balance. Rouse, W.R., et al. [1992,eng] 50-5030
- Damming James Bay: II. Impacts on coastal marshes. Price, J.S., et al. [1992,eng] 50-5031
- Device for protecting a bridge from naleds. Dement'ev, V.A., et al. [1992,rus] 50-1923
- Field measurements of ice loads: thermal loads on hydro-electric structures. Comfort, G., et al. [1994,eng] 50-853
- Fixing frozen leaks in a dam in Hokkaido. Takada, K., et al. [1995,jpn] 50-6738
- Flowthrough rockfill embankments: behavior in subzero temperatures. Hansen, D., et al. [1995,eng] 50-1841
- Low-temperature period countermeasures during concrete jacking of the Satsunagawa Dam. Yasunaka, S., et al. [1995,jpn] 50-6737
- Roller compacted concrete for a cold region dam. Yasunaka, S., et al. [1995,eng] 50-2679
- Runup and overtopping of impulse waves on dams. Müller, D.R., [1995,ger] 50-858
- Thermal protection of concrete dams subject to freeze-thaw cycles. Léger, P., et al. [1995,eng] 50-576
- See *also*: Earth dams; Ice dams

Data processing

- Acquisition and processing of remote sensing data on ore deposits. Guo, H.D., et al. [1993,chi] 50-2380
- Alberta Hail Project Data Archive available on the World Wide Web. Kochtubajda, B., et al. [1996,eng] 50-5201
- Algorithm for simulating wave propagation through sea ice. Blackowiak, A.D., et al. [1995,eng] 50-1644
- Altitude retracing algorithm accuracy for Greenland ice sheet growth. Davis, C.H., [1995,eng] 50-980
- Annual report 1995. National Snow and Ice Data Center. World Data Center-A for Glaciology. [1995,eng] 50-4604
- Antarctic journal of the United States, vol.28, no.4. [1993,eng] 50-138
- Application of DTM to extraction of snowcover information from NOAA/AVHRR image. Feng, X.Z., et al. [1995,chi] 50-3983
- Application of passive microwave retrieval algorithms to monitor global snow cover. Armstrong, R.L., et al. [1992,eng] 50-3562
- Application of SSM/I data for snow cover and climate research. Armstrong, R.L., [1995,eng] 50-4178
- Applications of fuzzy cluster analysis to integrated assessment of snow disaster. Feng, X.Z., et al. [1995,chi] 50-3989
- Archive of digital data from the Defense Meteorological Satellite Program (DMSP). Kroehl, H.W., et al. [1994,eng] 50-5076
- Arctic and Offshore Research Information System. Shoemaker, H.D., et al. [1991,eng] 50-1753
- Arctic river database. Global Runoff Data Centre (GRDC). Koblenz, Germany, [1995,eng] 50-6892
- Atlas of Arctic icebergs. Abramov, V., [1996,eng] 50-6320

- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Atmospheric observing systems and their data management support structure. Stirling, L.M., [1994,eng] 50-3414
- Atmospheric water vapour budget over Greenland. Calanca, P., [1994,eng] 50-4944
- Avalanche bulletin and computer aided communication: preliminary results. Bolognesi, R., et al. [1995,fre] 50-4656
- Background database of snow disaster in Nagqu area of Xizang. Sun, W.X., et al. [1995,chi] 50-3979
- Bank of arctic seismological data. Avetisov, G.P., et al. [1995,eng] 50-6528
- Barents Sea ice concentration from SSM/I data. Smith, D.M., [1996,eng] 50-6695
- Building a glaciological information system for a surging glacier. Garelik, I.S., et al. [1994,rus] 50-3489
- Chinese participation in the World Data Center for Glaciology. Part 2. Chen, X.Z., et al. [1995,chi] 50-3992
- Chinese participation in the World Data Center for Glaciology. Chen, X.Z., et al. [1995,chi] 50-3991
- Classification of arctic cloud and sea ice features in multi-spectral satellite data. Key, J.R., [1994,eng] 50-4357
- Coherent observation operators for surface data assimilation with application to snow depth. Urban, B., [1996,eng] 50-3008
- Comparison between neural network and statistical snowfall prediction methods. McGinnis, D.L., [1994,eng] 50-4356
- Comparison between snow cover products derived from visible and microwave satellite observations. Basist, A., et al. [1996,eng] 50-3007
- Comparison of ice-sheet satellite altimeter retracing algorithms. Davis, C.H., [1996,eng] 50-2703
- Computer database on anthropogenic arctic vegetation. Sumina, O.I., [1994,rus] 50-261
- Correction of satellite radar altimetry of antarctic ice sheets. Cooper, A.P.R., et al. [1996,eng] 50-5073
- Creation of a geocryology database for Yakutia. Balobaev, V.T., et al. [1996,rus] 50-6361
- Cryolithozone of Western Siberia (thermal condition, database and mapping). An, V.V., et al. [1996,rus] 50-6359
- Data filtering for thermal mapping of road surface temperatures. Shao, J., et al. [1995,eng] 50-775
- Detection and prediction of hail with Meteosat data. Messmer, B., et al. [1995,ger] 50-2539
- Development of a climate generator for Finland. II. Posch, M., [1994,eng] 50-3227
- Development of an ice information system (IIS) to be implemented at the NERSC. Jacob, A., [1995,eng] 50-2742
- Development of environmental database for the Russian Arctic. Kaitala, S., [1995,eng] 50-3178
- Digital terrain information and its application in Nagqu area of Xizang. Lu, A.X., et al. [1995,chi] 50-3985
- Direct measurements of atmospheric ozone at Zhongshan Station. Antarctica. Kong, Q.X., et al. [1996,chi] 50-5679
- Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al. [1996,eng] 50-4766
- Dynamical influences on the antarctic ozone hole. Harvey, M.W., et al. [1996,eng] 50-6648
- Earth-gridded SSM/I data set for cryospheric studies and global change monitoring. Armstrong, R.L., et al. [1995,eng] 50-1963
- Eight-year time series radiometric measurement of snow and sea ice covers. Ferraro, R.R., et al. [1996,eng] 50-5769
- Elaboration of a cadastre of avalanche paths in the Catalan Pyrenees. Martí, G., et al. [1995,eng] 50-4655
- Environmental factors: conceptual design and current status. Hansson, R., et al. [1996,eng] 50-4436
- Environmental impact assessment (EIA) in INSROP. Thomasen, J., et al. [1996,eng] 50-4438
- ERS-1 altimetry on the Greenland ice sheet: preliminary investigations of annual variations. Andersen, O.B., [1994,eng] 50-5033
- Establishment and application of DTM of the Qinghai-Xizang Plateau. Li, X., et al. [1995,chi] 50-3994
- Evaluation of SMMR satellite-derived snow depth using ground-based measurements. Tait, A., et al. [1996,eng] 50-4016
- Extraction of deformation descriptors from spaceborne radar ice motion products. Li, S., et al. [1995,eng] 50-1812
- Feasibility study of an ionospheric database. Checha, V.A., [1991,rus] 50-1640
- From card catalog to computer file: the impact of technology on the production of polar bibliographic databases. Andrews, M., [1994,eng] 50-5247
- Geographic information system for SILMU and the modelling of soil carbon flows. Alm, J., et al. [1994,eng] 50-3230
- Geologic and hydrogeologic mapping of Iceland with multisensor data. Münzer, U., et al. [1992,eng] 50-617
- Global identification of snowcover using SSM/I measurements. Grody, N.C., et al. [1996,eng] 50-2704
- High performance fiber optic hydrophones in the arctic environment. Yurek, A.M., et al. [1995,eng] 50-1211
- High-resolution ultraviolet spectral irradiance monitoring in polar regions. Booth, C.R., et al. [1994,eng] 50-4242
- High-resolution ultraviolet spectral irradiance monitoring program in polar regions. Booth, C.R., et al. [1993,eng] 50-593
- Hydroclimatic data by Greenland Field Investigations. Scharling, M., et al. [1995,eng] 50-2966
- Ice jam flooding and mitigation: Lower Platte River basin, Nebraska. White, K.D., et al. [1996,eng] 50-4251

- Ice storm data base and ice severity map. Shan, L., et al. [1996,eng] 50-5330
- Icefield Ranges climatology program: 1965 data presentation and programming analysis. Marcus, M.G., et al. [1966,eng] 50-3975
- ICESTAR: a spaceborne ice and coastal environment surveillance system. Cavalieri, D.J., et al. [1996,eng] 50-4482
- IEC TC11 WG11—report on meteorological data for assessing climatic loads. Ervik, M., et al. [1996,eng] 50-5347
- Improved detection of acoustic sources in ice-ridging ocean environment. Zala, C.A., et al. [1995,eng] 50-1461
- Information system for snowmelt runoff in Qinghai Province. Feng, X.Z., et al. [1990,chi] 50-6655
- INSROP GIS—the concept and its role in INSROP. Løvdal, S.M., et al. [1996,eng] 50-4426
- Instructions for compilation and assemblage of data for a world glacier inventory. Müller, F., et al. [1977,eng] 50-5784
- LANDSAT automated mapping of mountain snow cover. Rosenthal, W., et al. [1996,eng] 50-3312
- Least average residual algorithm (LARA) for tracking the motion of arctic sea ice. Peddada, S.D., et al. [1996,eng] 50-5686
- Limiting resolution of ice-sheet elevations derived from pulse-limited satellite altimetry. Wingham, D.J., [1995,eng] 50-461
- Measurement of ice accretion and persistence at unmanned sites. Final report. Hill, G.E., [1990,eng] 50-4365
- Measuring the density of snow particles and snowfall rate. Muramoto, K.I., et al. [1995,eng] 50-4573
- Methods for a structural processing of meteorological information. Dranitsa, I.U.P., [1992,rus] 50-1278
- Microwave imaging of Labrador Sea thin sea ice. Collins, M.J., et al. [1996,eng] 50-2701
- Model of predicting snow disaster using NOAA/AVHRR data in Nagqu area of Xizang. Lu, A.X., et al. [1995,chi] 50-3987
- Model of snow disaster assessment using NOAA/AVHRR data in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3988
- National climatic reference base for exceptional wet snow and rime ice episodes. Raison, T., et al. [1996,eng] 50-5331
- New approaches to numerical mapping of avalanches. Borrel, G., [1995,fre] 50-4675
- New environmental database mapping for oil spill response in Alaska. O'Brien, D.K., et al. [1995,eng] 50-5719
- Northern Sea Route: future & perspective. Northern Sea Route: future & perspective. Proceedings of INSROP Symposium, Tokyo, Oct. 1-6, 1995. [1996,eng] 50-4419
- Northern wilderness areas: ecology, sustainability, values. International Conference on Northern Wilderness Areas, Arctic Centre, University of Lapland, Rovaniemi, Finland, Dec. 7-9, 1994. [1995,eng] 50-3167
- NRC centre for ice loads on Beaufort Sea structures. Timco, G.W., [1996,eng] 50-3238
- OASIS avalanche database. Gillet, M., [1995,fre] 50-2590
- Oceanic satellites in the Global Ocean Observing System. Sherman, J.W., III, [1993,eng] 50-4801
- Output design of GIS production of snow disaster monitoring and assessment system. Li, X., et al. [1995,chi] 50-3990
- Preliminary application of Canadian ice regime system to the Northern Sea Route. Jones, S.J., et al. [1996,eng] 50-4429
- Processing and analysis of data from oceanographic field experiments. Golubev, V.A., et al. [1992,rus] 50-1261
- Processing of Doppler weather radar data. Iwanami, K., et al. [1995,jpn] 50-608
- Project I: natural conditions and ice navigation. Buzuev, A., [1996,eng] 50-4435
- Project I: natural conditions and ice navigation. Løvdal, S.M., [1996,eng] 50-4434
- Project III.12: improve information on navigating the NSR. Baskin, A.T., [1996,eng] 50-4448
- Russian module of the INSROP information system. Grishchenko, V.D., et al. [1996,eng] 50-4427
- Satellite mapping and monitoring of sea ice. Smith, D.M., et al. [1994,eng] 50-5197
- Satellite systems for hazard monitoring. Barrett, E.C., et al. [1992,eng] 50-619
- Snow hazard information system in Slovenia. Horvat, A., [1995,eng] 50-4653
- Snow monitoring from satellite data in Xizang. Feng, X.Z., et al. [1995,chi] 50-3986
- Space in the service of the changing Earth: Remote sensing for environmental monitoring and resource management. Vol.2. European "International Space Year" Conference, Munich, Germany, 30 March-4 April 1992. [1992,eng] 50-616
- Spaceborne radiometric determination of cloud structure. Pierdicca, N., et al. [1996,eng] 50-5683
- Spaceborne radiometry of Barents Sea ice cover variations. Bjørge, E., et al. [1994,eng] 50-5077
- Spatial analysis operation of background database of snow disaster. Sun, W.X., et al. [1995,chi] 50-3980
- Specialized ice information for planning sea operations along the NSR. Brovin, A.I., et al. [1996,eng] 50-4428
- SSM/I mapped experimental environmental image products. Donahue, D.R., et al. [1992,eng] 50-3567
- Statistical parameters influencing mapping of subglacial topography. Herzfeld, U.C., et al. [1993,eng] 50-1033
- Steering Group for the Global Digital Sea-ice Data Bank. Fourth session. Final report. Commission for Marine Meteorology, [1994,eng] 50-6075
- Studies on the methods of extracting snow information from NOAA/AVHRR image. Li, W.J., et al. [1995,chi] 50-3982

Data transmission

- Study of extracting remote sensing information of snow disaster in Nagqu area of Xizang. Li, Z., et al. [1995,chi] 50-3981
- Study on the avalanche hazard in the central Spanish Pyrenees (Aragon region). Sáez Alagón, M.T., et al. [1995,fre] 50-4682
- Study on the database system of accumulated snow. Lu, A.X., et al. [1995,chi] 50-3993
- Surveying methods and geocryological databases in the Russian GMGS system. Dubrovina, V.A., et al. [1996,rus] 50-6856
- Swedish Forest Information Atlas. Rosengren, M., et al. [1992,eng] 50-623
- Synthetic analysis method of snow depth in Nagqu area of Xizang. Zeng, Q.Z., et al. [1995,chi] 50-3984
- Temporal analysis of ERS-1 SAR backscatter for hydrology applications. Crevier, Y., et al. [1996,eng] 50-5543
- Typification of USSR surface territory for the aerospace monitoring system. Apostolov, I.U.S., et al. [1992,rus] 50-3405
- Use of a Geographical Information System in environmental management in Greenland. Aastrup, P., [1994,eng] 50-302
- Use of remote sensing spacecraft in real-time support for disaster management. Tortorici Montaperto, A., et al. [1992,eng] 50-620
- Using multiple data sources to enhance photogrammetry for mapping antarctic terrain. Fox, A.J., [1995,eng] 50-5536
- Wilderness quality mapping in the Euro-Arctic Barents region. Husby, E., et al. [1995,eng] 50-3171
- Data transmission**
- Application of SSM/I data for snow cover and climate research. Armstrong, R.L., [1995,eng] 50-4178
- Arctic buoys send data around the world. [1992,eng] 50-6094
- Automated measurements of snow temperature profiles in the Cairngorm mountains, Scotland. Purves, R.S., et al. [1995,eng] 50-2795
- Automatic integrated module installed at Terra Nova Bay. Lori, A., [1994,eng] 50-4281
- Avalanche bulletin and computer aided communication: preliminary results. Bolognesi, R., et al. [1995,fre] 50-4656
- Background database of snow disaster in Nagqu area of Xizang. Sun, W.X., et al. [1995,chi] 50-3979
- Concurrent ozone and temperature trends derived from ozonesonde stations. Fortuin, J.P.F., et al. [1995,eng] 50-1774
- Council of Europe's Open Partial Agreement on Major Hazards. EUR-OPA. Tondre, F., [1995,fre] 50-4645
- Demonstration project to supply near real time sea ice information. Blackford, C., et al. [1994,eng] 50-1516
- Development of road traffic information system responsive to driver telephone requests. Horikawa, T., et al. [1993,jpn] 50-2838
- From Anik to MSAT: bringing modern communications to the North Pole. [1996,eng] 50-2446
- High-speed network for communication by voice, data video and fax among three antarctic bases. Blasi, L., et al. [1994,eng] 50-4282
- Hydroclimatic data by Greenland Field Investigations. Scharling, M., et al. [1995,eng] 50-2966
- IceNav shipboard radar integration. Marton, C., [1995,eng] 50-4042
- Local forecasting of avalanche hazard in La Plagne. Schneider, C., [1995,fre] 50-4657
- Local forecasting of avalanche hazards at Alpe d'Huez in the Grandes Rousses. Daultier, J.M., [1995,fre] 50-4661
- Mac Weather: improved meteorological support in Antarctica. Joseph, J.E., [1994,eng] 50-4285
- New environmental database mapping for oil spill response in Alaska. O'Brien, D.K., et al. [1995,eng] 50-5719
- Performance of equipment for traffic report management systems. Obayashi, K., et al. [1992,jpn] 50-3137
- Prototype of a moored meteorological/oceanographic buoy for Terra Nova Bay. Gasparoni, F., et al. [1994,eng] 50-5183
- Relocation of telecommunication facilities at Syowa Station. Takada, K., [1995,jpn] 50-3499
- River ice motion detector. Zufelt, J.E., et al. [1995,eng] 50-589
- Satellite imagery for avalanche forecasting and rescue. Granica, K., [1995,eng] 50-4168
- Seismic detection in classifying avalanches. Sabot, F., et al. [1995,fre] 50-4642
- Seismo-acoustic remote sensing of ice-mechanical processes in the Arctic. Schmidt, H., et al. [1995,eng] 50-6276
- Smart Weapons Operability Enhancement (SWOE) Joint Test and Evaluation (JT&E) Program. Final report. Welsh, J.P., [1994,eng] 50-2453
- Study on snow disaster monitoring using remote sensing in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3978
- Swiss concept for forecasting the danger of avalanches. Ammann, W.J., [1995,fre] 50-4659
- Telemonitoring of climatic loads on Hydro-Québec 735 kV lines. Hardy, C., et al. [1996,eng] 50-5358
- User capabilities of the Defense Meteorological Satellite Program. Scharfen, G.R., et al. [1994,eng] 50-4792
- Validation and evaluation of a workstation for monitoring sea ice. McIntyre, N., et al. [1994,eng] 50-1515
- Video monitoring of atmospheric icing. Wareing, J.B., et al. [1995,eng] 50-204
- Warning system for snow on power lines using neural networks. Ohta, H., et al. [1996,eng] 50-5355

Dating

See [also]: Age determination

Decomposition

- Biological phosphorus removal: effect of low temperature. Kumar, P., et al. [1996,eng] 50-4755

- Biological remediation of shoreline oily waste from marine spills. Labrie, P., et al. [1990,eng] 50-474
- Bioreactor with liquid suspensions of *Alcaligenes eutrophus* JMP134. McKay, D.J., et al. [1995,eng] 50-5660
- Boundary layer characteristics of the continental margin of the western Barents Sea. Thomsen, L., et al. [1994,eng] 50-1245
- Chemical sputtering could produce sodium vapor and ice on Mercury. Potter, A.E., [1995,eng] 50-3093
- Cosmochemical significance of hydrocarbon reaction to frozen benzene impact. Mimura, K., et al. [1995,eng] 50-631
- Decomposition of needle litter in a forest ecosystem. Berg, B., et al. [1995,eng] 50-2731
- Decomposition of soil surface lichens in mountain tundra and taiga. Parinkina, O.M., et al. [1995,eng] 50-3875
- Dirty oil makes a feast for soil bacteria. Kiernan, V., [1996,eng] 50-4872
- Effects of tree litter decomposition on forest soil composition. Harris, M.M., et al. [1996,eng] 50-3309
- Ejection velocity of ice impact fragments. Arakawa, M., et al. [1995,eng] 50-2153
- Equilibrium constant for the reaction of $\text{ClO} + \text{O}_2 \leftrightarrow \text{ClO}_2$. Demore, W.B., [1990,eng] 50-4732
- Fine root production and decomposition on drained peatlands. Finer, L., et al. [1994,eng] 50-3217
- Freeze-thaw treatment on waste activated sludge: a FTIR spectroscopic study. Hong, S.G., et al. [1995,eng] 50-1568
- Fungal hyphal length in litter of *Dryas octopetala* in high-arctic polar semi-desert. Svalbard. Robinson, C.H., et al. [1996,eng] 50-4010
- Geographical patterns in the biological productivity of soil-vegetation associations. Bazilevich, N.I., [1995,eng] 50-3872
- Laser ablation of organic molecules from frozen matrices. Belov, M.E., et al. [1995,eng] 50-3720
- Mathematical models of ecosystem carbon cycle feedback effects. Ryzhova, I.M., [1996,eng] 50-5087
- Metal hydrolysis on a deeply cooled ice surface. Winter, H., et al. [1995,eng] 50-1102
- Methanogenesis at low temperatures by microflora of tundra wetland soil. Kotsiurbenko, O.R., et al. [1996,eng] 50-5156
- Model calculations of ozone depletion in the arctic polar vortex for 1991/92 to 1994/95. Chipperfield, M.P., et al. [1996,eng] 50-3551
- Model for the development of sod-podzolic soils by windthrow. Vasenev, I.I., et al. [1995,eng] 50-2712
- Modeling decomposition in arctic ecosystems. Moorhead, D.L., et al. [1996,eng] 50-4854
- Nitrogen soil dynamics in an arctic lowland ecosystem. Chapin, D.M., [1996,eng] 50-4340
- Nutrient availability in Alaskan upland forest sites. Yarie, J., et al. [1994,eng] 50-4798
- Objective determination of the polar vortex using Ertel's potential vorticity. Nash, E.R., et al. [1996,eng] 50-5452
- Odor removal processes for ice-covered river runoff. Hruzy, S.E., et al. [1995,eng] 50-1524
- Oil combating in a cold environment using bioremediation techniques. Rytkönen, J., et al. [1995,eng] 50-169
- Particle fluxes in the Kara Sea and Ob and Yenisey estuaries. Lisitsyn, A.P., et al. [1995,eng] 50-3543
- Particulate organic matter in Terra Nova Bay in summer 1990. Fabiano, M., et al. [1996,eng] 50-3702
- Pelagic processes in the Norwegian and Greenland Seas. von Bodungen, B., et al. [1995,eng] 50-746
- Pressure dependence of the reaction between ClO and OCIO at 226K. Parr, A.D., et al. [1990,eng] 50-4733
- Processes in soils and paleosols—a new method for the study of weathering. Nemeček, E., et al. [1995,eng] 50-1037
- Responses of arctic polar desert plant litter chemistry to climatic changes. Robinson, C.H., et al. [1995,eng] 50-5100
- Sounding of arctic polar stratospheric clouds, 1990. Hofmann, D.J., et al. [1990,eng] 50-4731
- Spectrometry of frozen organic surface ionization. Betts, R.L., et al. [1995,eng] 50-657
- Spectroscopy of ice clathrate decomposition to air bubbles. Pauer, F., et al. [1996,eng] 50-3067
- Surface ozone at high latitudes. Theodorsen, A., et al. [1996,eng] 50-4871
- Turnover and conservation of nutrients in the pachycaul *Senecio keniodendron*. Beck, E., [1994,eng] 50-3054
- Defects**
- Adsorption and desorption of water on single crystal $\text{MgO}(100)$: the role of surface defects. Stürmman, M.J., et al. [1996,eng] 50-5937
- Adsorption of methane on natural snow. Chaix, L., et al. [1996,eng] 50-5963
- Calculation of free energy for molecular crystals by thermodynamic integration. Báez, L.A., et al. [1995,eng] 50-1951
- Cooperative polarisation in ice I_h and the unusual strength of the hydrogen bond. Heggie, M.I., et al. [1996,eng] 50-3958
- Effect of X-radiation on the plastic deformation of ice. Hu, X.H., et al. [1996,eng] 50-5866
- Ice microcracking due to grain boundary sliding. Elvin, A.A., et al. [1996,eng] 50-4185
- Isotopic exchange during glass transition of amorphous ice. Fisher, M., et al. [1995,eng] 50-150
- New approach to the dynamics of hydrogen bond network in liquid water. Matsumoto, M., et al. [1996,eng] 50-3616
- Observation of slip transmission through a grain boundary in ice. Jia, K., et al. [1996,eng] 50-5297

Deformation

- Structure of ordinary ice I_h . Part II: Defects in ice. Volume 2: Dislocations and plane defects. Petrenko, V.F., et al. [1994,eng] 50-390
- Time dependence of dislocation arrays in ice during recrystallization. van der Elsen, J., et al. [1996,eng] 50-6346
- Time-dependent wave-packet studies on the sticking of HCl to an ice surface. Wang, L.C., et al. [1996,eng] 50-4767
- X-ray topographic study of ice crystal dislocations. Liu, F.P., et al. [1992,eng] 50-5958
- See [also]: Crystal defects
- Deflation**
- See [also]: Wind erosion
- Deformation**
- Alaskan glacier basal ice deformation. Hart, J.K., [1995,eng] 50-1882
- Algorithm for the solution to the axisymmetrical problem of the mechanics of frozen rocks. Sleptsov, V.I., [1992,rus] 50-813
- Alpine ecosystem snow depths derived from tree damage. Woolridge, G.L., et al. [1996,eng] 50-4629
- Block moraine formation of antarctic glaciers. Fitzsimons, S.J., [1996,eng] 50-6242
- Centrifuge modeling and numerical simulation of ice scour. Yang, Q.S., et al. [1996,eng] 50-6936
- Compressibility of saline frozen ground on the Yamal Peninsula. Morkovkin, E.I.U., et al. [1989,rus] 50-2307
- Concertina eskers. Briarjökull, Iceland: an indicator of surge-type glacier behavior. Knudsen, O., [1995,eng] 50-1407
- Correlation between Pleistocene involutions in English soil and Canadian thermokarst. Murton, J.B., et al. [1995,eng] 50-1803
- Creep of frozen soil by damage mechanics. Miao, T.D., et al. [1995,eng] 50-1556
- Deformation of frozen sandy soils with a cloddy structure during thawing. Shevchenko, L.V., et al. [1996,rus] 50-6832
- Deformation properties of saline frozen rocks. Brushkov, A.V., [1996,rus] 50-6829
- Deforming bed conditions on the Dänischer Wohld Peninsula, northern Germany. Hart, J.K., et al. [1996,eng] 50-6536
- Development of cryogenic processes in the Baykal region. Leshchikov, F.N., [1996,rus] 50-6397
- Dynamic deformation characteristics of rock foundations in the cryolithozone. Voronkov, O.K., et al. [1995,rus] 50-2505
- Dynamic deformation characteristics of undisturbed riverbed gravels. Yasuda, N., et al. [1996,eng] 50-4861
- Early stages of till genesis: an example from Fanore, County Clare, Ireland. Croot, D.G., et al. [1996,eng] 50-5828
- Effect of chemical composition of soils on the strength and deformability of frozen saline soils. Roman, L.T., [1995,eng] 50-632
- Effect of the seasonal thaw layer in rocks on their deformation properties. Khamin, M.N., [1993,rus] 50-122
- Electro-impulse deicing of the NASA Lewis altitude wind tunnel turning vanes. Ross, R., [1988,eng] 50-4100
- Engineering-geocryological problems in Transbaikalia: collected scientific papers. Shesternev, D.M., ed. [1993,rus] 50-107
- Estimating deformation in river floodplains under conditions of human activity. Zimichev, V.P., [1991,rus] 50-1306
- Estimation of reliability of permafrost beds. Gerasimov, A.S., [1995,eng] 50-344
- Evaluating the deformation and strength properties of frozen ground using an acoustic method. Zzykov, I.U.D., et al. [1995,rus] 50-2504
- Fabric signature of subglacial till deformation. Breidamerkjökull, Iceland. Benn, D.I., [1995,eng] 50-3863
- Forecasting deformation properties of thawing sandy soils according to data from compression tests. Gerasimov, A.S., et al. [1989,rus] 50-2300
- Frost heave investigation of I 275. Novak, E.C., Jr., [1982,eng] 50-2058
- Geocryological conditions of Transbaikalia and engineering-geocryological problems. Shesternev, D.M., et al. [1993,rus] 50-108
- Geocryological studies in arctic regions. Vol. 5: Poster papers. Geokriologicheskie issledovaniia v arkticheskikh raionakh: mezhdunarodnyi simpozium. SSSR, Iamburg. Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg. August 1989). [1990,rus] 50-2299
- Geocryological typification of a territory according to frost heave formation conditions. Verkhovzin, I.I., et al. [1993,rus] 50-113
- Geological mapping of Svalbard tectonic fault zone. McCann, A.J., et al. [1996,eng] 50-4232
- Geometry and energy calculations of the HS-III polyhedral gas hydrate framework. Kosiakov, V.I., et al. [1995,eng] 50-3676
- Geomorphological and neotectonic features of Hurd Peninsula, Livingston Island, South Shetland Islands. Pallas, R., et al. [1995,eng] 50-1337
- Geophysical investigations of cryolithozone. Scientific papers. Prolov, A.D., ed. [1995,rus] 50-2502
- Glacial erosion as a consequence of subglacial sediment deformation. Boulton, G.S., [1996,eng] 50-4891
- Instrument systems for studying the structure of frozen ground during its deformation. Erbiagin, I.F., [1996,rus] 50-6836
- Interpretation of subglacially-deformed materials. Benn, D.I., et al. [1996,eng] 50-5583
- Is erosion by deforming subglacial sediments significant? (Toward till continuity). Cuffey, K., et al. [1996,eng] 50-6235

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- Laboratory study of sediment deformation: stress heterogeneity and grain-size evolution. Iverson, N.R., et al. [1996,eng] 50-6256
- Landform and sediment associations of dry-based glaciers in arid polar environments. Humphreys, K.A., et al. [1996,eng] 50-6577
- Large strain finite-element analysis of snow. Meschke, G., et al. [1996,eng] 50-5923
- Lobal interactions and rheologic superposition in subglacial till near Bradville, Ontario, Canada. Hicock, S.R., [1992,eng] 50-2550
- Magnetic resonance imaging of frozen plant tissues. Gamble, G.R., [1994,eng] 50-3360
- Mathematical analysis of the flow of soils down a slope. Petrov, V.S., et al. [1993,rus] 50-119
- Mathematical model to correlate frost heave of pavements with laboratory predictions. Final report. Berg, R.L., et al. [1996,eng] 50-3333
- Methodological prerequisites for using time analogy methods in frozen ground mechanics. Roman, L.T., et al. [1996,rus] 50-6830
- Modelling of ice formation processes in freezing soils. Gorelik, I.A.B., et al. [1996,rus] 50-6813
- Nature of the displacement of dispersed rocks on slopes. Petrov, V.S., et al. [1996,rus] 50-6402
- New concept of durability of highway construction. Smirnov, A.V., [1995,rus] 50-724
- Numerical reconstruction of a soft-bedded Laurentide Ice Sheet during the last glacial maximum. Clark, P.U., et al. [1996,eng] 50-6539
- Origin of till sequences beneath mid-latitude ice sheets. Boulton, G.S., [1996,eng] 50-6243
- Permafrost influence on glacier sediment deformation. Euzenmüller, B., et al. [1996,eng] 50-6240
- Pleistocene glacial lake sedimentology. Scotland. Benn, D.I., [1996,eng] 50-5827
- Post-void strength of icebreaking ship structural members. DesRochers, C.G., et al. [1995,eng] 50-877
- Predictive model of frost heave and thaw weakening. Guymon, G.L., et al. [1985,eng] 50-2310
- Prospects for using geochemical methods in forecasting and evaluating technogenic talik zones. Tregubov, O.D., [1996,rus] 50-6855
- Recent drumlins, flutes and lineations at Vestari-Hagafellsjökull, Iceland. Hart, J.K., [1995,eng] 50-1880
- Relation between sea ice loads and arctic offshore structures. Blanchet, D., et al. [1991,eng] 50-1721
- Study of deformation properties of freezing and thawing soils for cold weather construction. Ganeles, L.B., et al. [1989,rus] 50-2252
- Tertiary paleostress regimes in arctic islands. Lepvrier, C., et al. [1996,eng] 50-6208
- Thermodynamic evaluation of the cold resistance of steel elements. Shafrai, S.D., et al. [1995,rus] 50-721
- Tree leaf cell response to cold acclimation. Rajashekar, C.B., et al. [1996,eng] 50-6555
- Tunnel valley genesis. Cofaigh, C.O., [1996,eng] 50-5012
- See [also]: Ice deformation; Plastic deformation; Rheology; Snow deformation
- Defrosting**
- Cold weather tests of 4-wheeled armored military vehicle. Davis, J.B., et al. [1996,eng] 50-5665
- Windshield defroster. Yoshikawa, H., et al. [1987,eng] 50-2242
- Degradation**
- Aggregate degradation in the frost heave test. Hill, J., [1977,eng] 50-2320
- Airborne Arctic Stratospheric Expedition: prologue. Turco, R.P., et al. [1990,eng] 50-5973
- Airborne lidar observations in the wintertime arctic stratosphere: ozone. Browell, E.V., et al. [1990,eng] 50-5976
- Application of foam insulation for remediation of degraded permafrost. Feklistov, V.N., et al. [1996,eng] 50-5472
- Arctic and antarctic ozone depletion inferred from radiometric soundings. MacKenzie, I.A., et al. [1996,eng] 50-5768
- Arctic bioremediation: a case study. Liddell, B.V., et al. [1991,eng] 50-1752
- Arctic stratospheric aerosol distribution. Brune, W.H., et al. [1990,eng] 50-6014
- Benthic sediment hydrocarbon sources following the Exxon Valdez oil spill. Page, D.S., et al. [1995,eng] 50-3915
- Biological treatment of waste water containing glycols from de-icing agents. Nitschke, L., et al. [1996,eng] 50-3619
- Calculations of ozone destruction during the 1988/89 arctic winter. McKenna, D.S., et al. [1990,eng] 50-6025
- Chemical and toxicological evaluation of water quality following the Exxon Valdez oil spill. Neff, J.M., et al. [1995,eng] 50-3917
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995,eng] 50-1863
- Cleansing role of clay-oil flocculation in shoreline sediments following an oil spill. Bragg, J.R., et al. [1995,eng] 50-3918
- Cold climate applications of bioventing. Ong, S.K., et al. [1994,eng] 50-1474
- Concrete durability in Iceland. Idorn, G.M., [1988,eng] 50-4228
- Core preservation to aid arctic oil reservoir evaluation. MacGregor, K.W., et al. [1991,eng] 50-1740
- Cratering phenomena on aircraft anti-icing films. La Due, J., et al. [1996,eng] 50-4219

- Creation of high-productive seeding meadows on disturbed arctic lands. Tikhmenev, E.A., [1991,eng] 50-1744
- Decadal evolution of the antarctic ozone hole. Jiang, Y., et al. [1996,eng] 50-5253
- Degradation of Arctic ice cap islands from climatic warming. Ignat'eva, I.I.U., et al. [1993,rus] 50-883
- Denitrification mechanisms in the polar stratospheres. Toon, O.B., et al. [1990,eng] 50-6001
- Discussion of paper by Aavik and Chandra. Mather, B., et al. [1995,eng] 50-4501
- Ecologic-genetic analysis of tundra-steppe soils in northeastern Siberia. Chernikhovskii, D.A., [1996,eng] 50-5447
- Effect of climate warming on the Qinghai-Tibet Highway, China. Tong, C.J., et al. [1996,eng] 50-3830
- Effect of dynamical mixing in a simple model of the ozone hole. Edouard, S., et al. [1996,eng] 50-6332
- Environmental factors influencing the biodegradation of petroleum hydrocarbons in cold seawater. Siron, R., et al. [1995,eng] 50-651
- Environmental research project for Yamburg gas fields. Chlenov, A.V., [1991,eng] 50-1766
- European soil thermal contraction related to ice sheet dynamics. van Vliet-Lanoë, B., [1996,eng] 50-6340
- Evidence of mechanism for polar stratospheric cloud dehydration. Gandrud, B.W., et al. [1990,eng] 50-6003
- Fingerprinting hydrocarbons in the biological resources of the Exxon Valdez spill area. Bence, A.E., et al. [1995,eng] 50-3916
- Formation of polar stratospheric clouds on preactivated background aerosols. Zhang, R.Y., et al. [1996,eng] 50-6510
- Frost durability of high strength concrete: effect of internal cracking on ice formation. Jacobsen, S., et al. [1996,eng] 50-6097
- Grading, degradation and compaction considerations in relation to specimen preparation. Hughes, R., [1977,eng] 50-2316
- Ground-based aerosol measurements at Arrival Heights, Antarctica. Kreher, K., et al. [1996,eng] 50-6681
- Handling practice effects on soil sample chemistry. Hewitt, A.D., [1996,eng] 50-5962
- High strength concrete—freeze/thaw testing and cracking. Jacobsen, S., et al. [1995,eng] 50-3700
- Hydrogen sulfide forecasting techniques for the Kuparuk River Field. Frazier, L.C., et al. [1991,eng] 50-1729
- In situ bioremediation in arctic Canada. Cars, J.G., et al. [1994,eng] 50-1472
- Interpretation of nitric oxide profile observed in January 1992 over Kiruna. Kondo, Y., et al. [1996,eng] 50-6637
- Investigation and repair of a terra cotta dome in a cold climate. Ogle, R., et al. [1995,eng] 50-1978
- Loss of ozone in the arctic vortex for the winter of 1989. Salawitch, R.J., et al. [1990,eng] 50-6027
- Migration of chemical elements and ions in the seasonal thaw layer and upper layer of perennially frozen rocks. Leibman, M.O., et al. [1996,rus] 50-6848
- Mode of degradation of Pleistocene permafrost in West Siberia. Astakhov, V.I., [1995,eng] 50-507
- Model of arctic radiation fog trace gas processing. Bergin, M.H., et al. [1996,eng] 50-5764
- Mountain permafrost and slope instability in the Italian Alps: the Val Pola landslide. Dramis, F., et al. [1995,eng] 50-669
- Natural cleaning of oiled coarse sediment shorelines in arctic and Atlantic Canada. Owens, E.H., et al. [1994,eng] 50-6231
- Near UV polar stratospheric absorption measurements. Wahner, A., et al. [1990,eng] 50-6012
- Ozone hole. Hall, T.M., [1996,eng] 50-4995
- Paleogeographical conditions of the degradation of Pleistocene frozen ground. Astakhov, V.I., [1990,rus] 50-1624
- Permafrost distribution in the northern hemisphere under scenarios of climatic change. Anisimov, O.A., et al. [1996,eng] 50-6619
- Pesticide degradation in an arctic lake and watershed. Falconer, R.L.M., et al. [1995,eng] 50-1131
- Photooxidants in the marine arctic troposphere in summer. Weller, R., et al. [1996,eng] 50-5255
- Polar Ozone and Aerosol Measurement instrument. Giaccum, W., et al. [1996,eng] 50-5765
- Pre-analysis of soil organic compound holding times. Hewitt, A.D., [1996,eng] 50-5961
- Protection against chloride-induced corrosion. Berke, N.S., et al. [1988,eng] 50-4229
- Response of a research aircraft to icing and evaluation of severity indices. Politovich, M.K., [1996,eng] 50-4406
- Review of bioremediation experience in Alaska. Kellems, B.L., et al. [1994,eng] 50-1473
- Russian soil depletion by snowmelt. Chernyshev, E.V., et al. [1995,eng] 50-2148
- Satellite observation of arctic ozone depletion. Müller, R., et al. [1996,eng] 50-6636
- Satellite regolith frozen ground collapse as solar system geological paradigm. Moore, J.M., et al. [1996,eng] 50-6588
- Searching for ways of stimulating oil biodegradation in soil. Kazakova, E.N., et al. [1994,rus] 50-281
- Seasonal and annual dynamics of frozen ground in the central highland of Iceland. Þórhalldóttir, T.E., [1996,eng] 50-5499
- Seasonal frost mounds of arctic beaches, Tuktoyaktuk Peninsula, Northwest Territories. Campeau, S., et al. [1995,eng] 50-4882
- Self healing of high strength concrete after deterioration by freeze/thaw. Jacobsen, S., et al. [1996,eng] 50-3725

- SEM observations of the microstructure of frost deteriorated and self-healed concretes. Jacobsen, S., et al. [1995,eng] 50-3701
- Shoreline ecology program following the Exxon Valdez oil spill, pt.2. Boehm, P.D., et al. [1995,eng] 50-3924
- Shoreline oiling conditions in Prince William Sound following the Exxon Valdez oil spill. Neff, J.M., et al. [1995,eng] 50-3923
- Siberian oil eating bacteria. [1991,eng] 50-4378
- Simulating the evolution of the chemical composition of the 1988/89 winter vortex. Jones, R.L., et al. [1990,eng] 50-6024
- Simulation of arctic stratospheric response to aerosol perturbations. Zhao, X.P., et al. [1996,eng] 50-6680
- Simulation of polar stratospheric aerosols. Kaye, J.A., et al. [1990,eng] 50-6019
- Soil sample compaction degradation related to grading variations. Pike, D.C., [1977,eng] 50-2321
- Spectroscopic damage to hydrated specimens in vitreous ice. Leapman, R.D., et al. [1995,eng] 50-1648
- Stratospheric constituent trends from ER-2 profile data. Schoeberl, M.R., et al. [1990,eng] 50-6005
- Symposium on Environmental Toxicology and Risk Assessment, 3rd, Atlanta, GA, Apr. 26-28, 1993. Exxon Valdez oil spill: fate and effects in Alaska waters. [1995,eng] 50-3914
- Technology adaptation to arctic mineral resource development. Zamoshch, M.N., [1991,eng] 50-1754
- Thermal protection of concrete dams subject to freeze-thaw cycles. Léger, P., et al. [1995,eng] 50-576
- Thermodynamic stability of hydrates for ethane, ethylene, and carbon dioxide. Kvamme, B., et al. [1996,eng] 50-5019
- Total ozone during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990,eng] 50-5974
- Trichloroacetic acid in conifer needles and arboreal lichens in forest environments. Juuti, S., et al. [1996,eng] 50-4206
- Wear resistant concrete for pavements. Pedersen, N., [1988,eng] 50-4227
- Zonal asymmetries in simulation of arctic stratospheric ozone. Isaksen, I.S.A., et al. [1990,eng] 50-6026
- Degree days**
- Degree-day glacier mass balance modelling. Jóhannesson, T., et al. [1995,eng] 50-455
- Joint probability of environmental loads on marine structures. Liu, D.F., et al. [1995,eng] 50-196
- Revisiting the degree-day method for snowmelt computations—discussion. Howard, C.D.D., [1996,eng] 50-4411
- Revisiting the degree-day method for snowmelt computations. Rango, A., et al. [1995,eng] 50-1653
- Simple energy budget algorithm for the snowmelt runoff model. Kustas, W.P., et al. [1994,eng] 50-3819
- Snow hydrological parameters for modelling river runoff. Kuchment, L.S., et al. [1996,eng] 50-5519
- Winter 1994 weather and ice conditions for the Laurentian Great Lakes. Assel, R.A., et al. [1996,eng] 50-3294
- Deicing**
- See [also]: Ice prevention; Ice removal
- Deltas**
- Cenozoic deposition in the Nansen Basin, Barents Sea. Vågenes, E., [1996,eng] 50-5313
- Depositional sequences in glaciolacustrine deltas. Gustavson, T.C., et al. [1975,eng] 50-4818
- Dispersal of metal-contaminated sediments in an arctic river. Sear, D., et al. [1996,eng] 50-6516
- Dispersal of metal-contaminated sediments in an arctic river. Sear, D., et al. [1996,eng] 50-6516
- Distribution of river water and suspended sediments in the river deltas of the Laptev Sea. Ivanov, V.V., et al. [1995,eng] 50-2080
- Eskers: an essay of bibliographic review. Levasseur, D., [1995,eng] 50-5042
- Geochemistry of Lena River suspended sediments. Rachold, V., [1995,eng] 50-2095
- Glacially-fed North Sea Quaternary sedimentation. King, E.L., et al. [1996,eng] 50-4877
- Glacier-fed delta at a Barents Sea fjord. Laberg, J.S., et al. [1996,eng] 50-5921
- Ice-thermal regime at front deltas of rivers of the Laptev Sea. Nalimov, I.U.V., [1995,eng] 50-2070
- Middle and Late Pleistocene evolution of the Bear Island Trough Mouth Fan. Laberg, J.S., et al. [1996,eng] 50-5322
- Open-water and ice-jam flooding of a northern delta. Prowse, T.D., et al. [1994,eng] 50-5699
- Organic sedimentation in an arctic delta. Peulvé, S., et al. [1996,eng] 50-5819
- Outflow of Lena River water to the Laptev Sea. Golovin, P.N., et al. [1995,eng] 50-2075
- Pollen content of Pleistocene deposits in the St. Lawrence Estuary. Clet, M., et al. [1995,eng] 50-4884
- Quaternary sea level history in the Northwest Territories, Canada. Kerr, D.E., [1996,eng] 50-6553
- Recent morphogenesis and problems in the geocology of the Russian Arctic. Sen'kin, O.V., et al. [1995,rus] 50-5138
- Relative sea level in the area of Matane (Québec) from deglaciation to present day. Dionne, J.C., et al. [1995,eng] 50-5036
- Rhythmic sedimentation in Glacial Lake Hitchcock, Massachusetts-Connecticut. Ashley, G.M., [1975,eng] 50-4820
- River-coastal sea ice interaction model: Mackenzie River Delta. Searcy, C., et al. [1996,eng] 50-5265
- Russian-German cooperation: Laptev Sea system. Kassens, H., et al. [1995,eng] 50-2059

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Desiccation

- Sea ice over-flooding and oil spills in the Mackenzie Delta. Webb, R., [1995,eng] 50-5720
- Sediment flux from a fjord during glacial periods, Isfjorden, Spitsbergen. Hooke, R. L., et al. [1996,eng] 50-5318
- Sedimentary successions in Pleistocene ice-marginal lakes. Shaw, J., [1975,eng] 50-4819
- Sedimentology and geomorphology of drumlins in western Allgäu, south Germany. De Jong, M.G.G., et al. [1982,eng] 50-3381
- Tracing radioactive contamination in the Siberian Arctic. Sayles, F.L., et al. [1996,eng] 50-6668
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- Formation and morphology of ice stalactites observed under deforming lead ice. Perovich, D.K., et al. [1995,eng] 50-452
- Formation mechanism of side branches of dendritic ice crystals grown from vapor. Gonda, T., et al. [1996,eng] 50-5193
- Grain multiplication mechanism for sea ice transition zone formation. Wei, Y.C., et al. [1995,eng] 50-1143
- Solidification of pure liquids and liquid mixtures inside ducts and over external bodies. Fukusako, S., et al. [1994,eng] 50-2348
- Thermodynamic analysis of the influence of electric fields on frost formation. Ma, H.B., et al. [1995,eng] 50-2156
- Dendrochronology**
- See [also]: Age determination
- Denmark**
- Danish lacustrine sediment evidence of paleoclimatological variability. Hammarlund, D., et al. [1996,eng] 50-5826
- Near-shore Baltic ice lake deposits in Fakse Bugt, southeast Denmark. Bennike, O., et al. [1995,eng] 50-1798
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Report on establishing an interdisciplinary polar institute in Denmark. Denmark. Ministeriet for Grønland (Ministry for Greenland). [1985,dan] 50-4551
- Ventifacts as palaeo-wind indicators in southern Scandinavia. Schlyter, P., [1996,eng] 50-6698
- Denmark Strait**
- High precision ^{230}Th and ^{238}Th in the Norwegian Sea and Denmark by thermal ionization mass spectrometry. Moran, S.B., et al. [1995,eng] 50-2022
- Denmark—Kattegat**
- Late Younger Dryas to Holocene palaeoenvironments of the southern Kattegat, Scandinavia. Conradson, K., [1995,eng] 50-2861
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- Characterization of a novel ice-nucleating bacterium. Kawahara, H., et al. [1995,eng] 50-1960
- Compaction tests to simulate icy satellite regolith physics. Leliwa-Kopystyński, J., et al. [1995,eng] 50-5200
- Convective instability influence on freezing time of warm water. Maciejewski, P.K., [1996,eng] 50-4220
- Dense water formation on arctic shelves. Gawarkiewicz, G., et al. [1996,eng] 50-6671
- Explanation of the density maximum in water. Cho, C.H., et al. [1996,eng] 50-4346
- Freeze/thaw treatment on zone settling of waste activated sludges. Chen, G.W., et al. [1996,eng] 50-5043
- Heat transfer in an ice-water saturated porous medium. Zhang, X.L., [1993,eng] 50-5782
- Maintaining the thermohaline circulation. Mauritzen, C., et al. [1996,eng] 50-6670
- Outflow of dense water from the Storfjord in Svalbard: a numerical model study. Jungclauss, J.H., et al. [1995,eng] 50-2777
- Pressure, salinity, and maximum density temperature of sea water. Kukulka, D.J., et al. [1996,eng] 50-6441
- Simple relationship between the properties of isotopic water. Vedamuthu, M., et al. [1996,eng] 50-4184
- Thermal radiation of water from 0° to 75°C. p.3. Aivazian, G.M., [1996,eng] 50-5192
- See [also]: Atmospheric density; Ice density; Snow density
- Density (number/volume)**
- See [also]: Ion density (concentration); Particle size distribution
- Deposits**
- See [also]: Alluvium; Avalanche deposits; Glacial deposits; Lacustrine deposits; Marine deposits; Moraines; Quaternary deposits; Sediments
- Depth**
- See [also]: Permafrost depth; Snow depth
- Depth hoar**
- Climatic division of snow cover environments in Japan using the mesh climatic data. Ishizaka, M., [1995,jpn] 50-997
- Depth hoar influence on permafrost thermal regime. Zhang, T., et al. [1996,eng] 50-6585
- Effects of snowpack grain size on remote sensing of river basins. Josberger, E.G., et al. [1996,eng] 50-4302
- Snow cover and climate in Japan. Ishizaka, M., [1996,jpn] 50-6732
- Test of the snow cover numerical model Crocus in avalanche forecasting. Mingo, L., [1995,eng] 50-4646
- Desalting**
- Exclusion of sodium chloride from ice during freezing. Cragin, J.H., [1995,eng] 50-3131
- Freezing purification system and method for decontamination and desalination of water. Hussein, A.A., et al. [1995,eng] 50-3456
- Problems in producing artificial ice. Smorygin, G.I., [1990,rus] 50-1619
- Reverse osmosis/direct contact freezing system for desalination plants. Madani, A.A., et al. [1989,eng] 50-4611
- Desert soils**
- Advanced classification system for Xinjiang soils. Li, Z.X., [1991,chi] 50-5112
- Aeolian facies belts in the Taklimakan Desert. Li, B.S., et al. [1995,eng] 50-4127
- Amelioration of saline land in Xinjiang oases. Wang, G.F., et al. [1991,chi] 50-5119
- Argid of Xinjiang—a calciorthid soil. Li, S.G., et al. [1991,chi] 50-5113
- Buried loess in the Bohai Sea bottom and exposed along the coast. Liu, J.P., et al. [1995,chi] 50-4125
- Changes in surface conditions of the Taklimakan Desert. Sugihara, S., [1991,jpn] 50-1425
- Desert and lake deposits in the Taklimakan Desert. Endo, K., et al. [1991,jpn] 50-1423
- Desertification and its control in China. Zhu, Z.D., et al. [1989,chi] 50-1851
- Drought and salt resistant plants in arid regions of China. Omasa, K., et al. [1991,jpn] 50-1442
- Geomorphological studies on the arid regions of northwest China. Yang, X.P., [1991,ger] 50-2770
- Heavy metals in the podsol desert soils of the Fukang region. Xie, Y.Y., et al. [1991,chi] 50-5133
- Investigation of the surface condition in Taklimakan Desert. Tsuchiya, K., et al. [1991,jpn] 50-1426
- Isotopic analysis of groundwater in the Taklimakan Desert. Ushiki, H., et al. [1991,jpn] 50-1435
- Japan-China Joint Study on Desertification. Apr. 1990-Mar. 1991. Japan. Science and Technology Agency. Research and Development Bureau (Kagaku gijutsucho Kenkyu kaihatsumoku), [1991,jpn] 50-1421
- Ladakh: an update on natural resources. Dhar, U., et al. [1994,eng] 50-5423
- Land classification, land structure and comprehensive natural zonation of Xinjiang. Fan, Z.L., et al. [1991,chi] 50-5107
- Lidar measurements of global dust transport from the Taklimakan Desert. Itabe, T., et al. [1991,jpn] 50-1430
- Low-yield land and its amelioration in Xinjiang. Zhang, B.Q., et al. [1991,chi] 50-5118
- Mapping of land use in the Taklimakan Desert. Sugihara, S., [1991,jpn] 50-1427
- Mineralogical and chemical analysis of Taklimakan Desert soil samples. Ishii, T., et al. [1991,jpn] 50-1428
- Pedogenesis and vegetation in desert areas of Inner Mongolia. Hattai, T., [1991,jpn] 50-1441
- Plan for the Japan-China joint study of the Taklimakan Desert. Japan. Science and Technology Agency. Research and Development Bureau. [1991,jpn] 50-1422
- Preliminary study on fossil dunes in the Qaidam Basin. Zhong, D.C., [1986,chi] 50-1990
- Quaternary loess and stratigraphy in Inner Mongolia. Dong, G.R., et al. [1986,chi] 50-1991
- Resource ecology for soil conservation in the cold deserts of the Himalaya. Gupta, R.K., [1994,eng] 50-5426
- Salt precipitation and accumulation in the Taklimakan Desert. Okada, A., et al. [1991,jpn] 50-1429
- Selenium in the saline podsol and desert soils of the northern foothills of Tian Shan. Wang, Z.Q., [1991,chi] 50-5131
- Soils of Xizang (Tibet). Gao, Y.X., et al. [1985,chi] 50-2297
- Stereo satellite image of sand particle transport in the Taklimakan Desert. Nagashima, H., [1991,jpn] 50-1433
- Studies on the soils and land resources of Xinjiang. Xinjiang Institute of Biology, Pedology, and Desert Research of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang shengwu turang shamo yanjiusuo), Urumqi, [1991,chi] 50-5106
- Study on soil erosion in Inner Mongolia. Zhao, Y., et al. [1989,chi] 50-3269
- Study on the dynamics of chemical elements in desert saline soil-plant systems. Wang, Z.Q., et al. [1991,chi] 50-5132
- System for measuring moisture in the Taklimakan Desert soil. Fujitani, T., et al. [1991,jpn] 50-1436
- Takry soils and cold desert gypsic soils in the western Kunlun Mountains. Gu, G.A., et al. [1992,chi] 50-1494
- Transport of sand particles and dune shifting by wind in the Taklimakan Desert. Nagashima, H., [1991,jpn] 50-1431
- Transport of sand particles and dune shifting by wind in the Taklimakan Desert. Okumura, T., et al. [1991,jpn] 50-1432
- Using integrated numerical analytical microcomputer software in alkaline soil analysis. Yao, G.R., et al. [1991,chi] 50-5117
- Water limitations and plant community development in a polar desert. Gold, W.G., et al. [1995,eng] 50-2463
- Deserts**
- Automatic weather station for detecting desertification and climatic change. Fujitani, T., et al. [1991,jpn] 50-1438
- Changes in surface conditions of the Taklimakan Desert. Sugihara, S., [1991,jpn] 50-1425
- Climate of Inner Mongolia. Wang, W.H., ed. [1990,chi] 50-2172
- Climate of Xinjiang. Li, J.F., ed. [1991,chi] 50-2174
- Climatic variation of Xinjiang in recent 3000 years. Li, J.F., [1985,chi] 50-1996
- Desert and lake deposits in the Taklimakan Desert. Endo, K., et al. [1991,jpn] 50-1423
- Desertification and climatic change from historical data. Yoshino, M., et al. [1991,jpn] 50-1437
- Desertification and its control in China. Zhu, Z.D., et al. [1989,chi] 50-1851
- Drought and salt resistant plants in arid regions of China. Omasa, K., et al. [1991,jpn] 50-1442
- Dust in glaciers around Taklimakan Desert. Han, J.K., et al. [1995,eng] 50-615
- Geomorphological studies on the arid regions of northwest China. Yang, X.P., [1991,ger] 50-2770
- Ice core records for analyzing desertification. Nakawo, M., et al. [1995,eng] 50-614
- Investigation of the surface condition in Taklimakan Desert. Tsuchiya, K., et al. [1991,jpn] 50-1426
- Isotopic analysis of groundwater in the Taklimakan Desert. Ushiki, H., et al. [1991,jpn] 50-1435
- Japan-China Joint Study on Desertification. Apr. 1990-Mar. 1991. Japan. Science and Technology Agency. Research and Development Bureau (Kagaku gijutsucho Kenkyu kaihatsumoku), [1991,jpn] 50-1421
- Mapping of land use in the Taklimakan Desert. Sugihara, S., [1991,jpn] 50-1427
- Mineralogical and chemical analysis of Taklimakan Desert soil samples. Ishii, T., et al. [1991,jpn] 50-1428
- Minimum area and cover-abundance scales as applied to polar desert vegetation. Lévesque, E., [1996,eng] 50-5489
- Natural resources of Inner Mongolia. Eer, D., ed. [1987,chi] 50-2290
- On the environmental and climatic changes in the Lop Nur area. Xia, X.C., et al. [1985,chi] 50-1997
- Paleoclimate of the Taklimakan Desert from glacier ice cores. Nakawo, M., [1991,jpn] 50-1424
- Plan for the Japan-China joint study of the Taklimakan Desert. Japan. Science and Technology Agency. Research and Development Bureau. [1991,jpn] 50-1422
- Plant communities and desertification in Xinjiang Province. Tanimoto, T., et al. [1991,jpn] 50-1439
- Progress report on studies to explain the mechanisms of desertification. [1989,jpn] 50-2034
- Research on the natural resources and environment of the Ordos Plateau in Inner Mongolia. Li, B., ed. [1990,chi] 50-2011
- Salt precipitation and accumulation in the Taklimakan Desert. Okada, A., et al. [1991,jpn] 50-1429
- Stereo satellite image of sand particle transport in the Taklimakan Desert. Nagashima, H., [1991,jpn] 50-1433
- System for measuring moisture in the Taklimakan Desert soil. Fujitani, T., et al. [1991,jpn] 50-1436
- System of climatic geomorphology based on landscape typing. Hövermann, J., [1990,ger] 50-1782
- Transport of sand particles and dune shifting by wind in the Taklimakan Desert. Nagashima, H., [1991,jpn] 50-1431
- Transport of sand particles and dune shifting by wind in the Taklimakan Desert. Okumura, T., et al. [1991,jpn] 50-1432
- Water balance in the Taklimakan Desert. Kimura, T., et al. [1991,jpn] 50-1434
- Water limitations and plant community development in a polar desert. Gold, W.G., et al. [1995,eng] 50-2463
- Desiccation**
- Air temperature effects on cold weather drilling mud dewatering. Wojtanowicz, A.K., et al. [1991,eng] 50-1708
- Automatic weather station for detecting desertification and climatic change. Fujitani, T., et al. [1991,jpn] 50-1438
- Buried loess in the Bohai Sea bottom and exposed along the coast. Liu, J.P., et al. [1995,chi] 50-4125
- Climatic variation of Xinjiang in recent 3000 years. Li, J.F., [1985,chi] 50-1996
- Comparative water relations of tropical alpine plants. Meinzer, F.C., et al. [1994,eng] 50-3047
- Desert and lake deposits in the Taklimakan Desert. Endo, K., et al. [1991,jpn] 50-1423
- Desertification and climatic change from historical data. Yoshino, M., et al. [1991,jpn] 50-1437
- Desertification and its control in China. Zhu, Z.D., et al. [1989,chi] 50-1851
- Desiccation of white spruce seedlings planted in the southern boreal forest of British Columbia. Krasowski, M.J., et al. [1995,eng] 50-766
- Effects of dehydration and freezing stress on brown algae. Pearson, G.A., et al. [1995,eng] 50-1523
- Environmental degradation in the northeastern Qinghai-Xizang Plateau. Zheng, Y.C., [1994,eng] 50-4786
- Evidence for midwinter chemical ozone destruction over Antarctica. Vömel, H., et al. [1995,eng] 50-754
- Evidence of mechanism for polar stratospheric cloud dehydration. Gandrud, B.W., et al. [1990,eng] 50-6003
- Extreme fire seasons in the forests of Evenkia. Ivanova, G.A., [1995,eng] 50-4700
- Ice core records for analyzing desertification. Nakawo, M., et al. [1995,eng] 50-614
- Japan-China Joint Study on Desertification. Apr. 1990-Mar. 1991. Japan. Science and Technology Agency. Research and Development Bureau (Kagaku gijutsucho Kenkyu kaihatsumoku), [1991,jpn] 50-1421
- Natural freeze-thaw dewatering of aerated lagoon sludges. Desjardins, M.A., et al. [1996,fre] 50-5808
- Observational studies of the role of polar regions in mid-latitude ozone loss. Jones, R.L., et al. [1995,eng] 50-3094

Design

- On the connexion of vegetation dynamics with climatic changes in High Asia. Mische, G., [1996,eng] 50-5089
- On the environmental and climatic changes in the Lop Nur area. Xia, X.C., et al., [1985,chi] 50-1997
- Paleoclimate of the Taklimakan Desert from glacier ice cores. Nakawo, M., [1991,jpn] 50-1424
- Physical climatology of alpine tundra, Scout Mountain, British Columbia, Canada. Saunders, I.R., et al., [1996,eng] 50-4235
- Plan for the Japan-China joint study of the Taklimakan Desert. Japan. Science and Technology Agency. Research and Development Bureau, [1991,jpn] 50-1422
- Plant communities and desertification in Xinjiang Province. Tanimoto, T., et al., [1991,jpn] 50-1439
- Progress report on studies to explain the mechanisms of desertification. [1989,jpn] 50-2034
- Relation between permeability and pore size distribution of compacted clayey silts. Garcia-Bengochea, L., [1978,eng] 50-2802
- Relationship between water content and frost tolerance in shoots of hardwood seedlings. Calmé, S., et al., [1996,eng] 50-3296
- Resource ecology for soil conservation in the cold deserts of the Himalaya. Gupta, R.K., [1994,eng] 50-5426
- Response functions of tree-ring chronologies in western Tianshan Mountains. Yuan, Y.J., et al., [1995,chi] 50-5626
- Reversible photoinhibition in antarctic moss during freezing and thawing. Lovelock, C.E., et al., [1995,eng] 50-2854
- Shrinking of Quaternary lakes and environmental changes on the Tibetan Plateau. Zhao, Y.T., [1994,eng] 50-4781
- Tropospheric dehydration by subvisible cirrus clouds. Jensen, E.J., et al., [1996,eng] 50-5287
- Water balance in the Taklimakan Desert. Kimura, T., et al., [1991,jpn] 50-1434
- Design**
- Airfoil with integral de-icer using overlapped tubes. Rauckhorst, R.L., [1993,eng] 50-2338
- Analysis of outer shell wear for ice-going ships. Shemendiuk, G.P., et al., [1996,eng] 50-4467
- Anti-icing system for a gas turbine engine. Mouton, P.C., [1995,eng] 50-3463
- Anti-skid chain for vehicle tires. Franklin, C.R., [1992,eng] 50-2246
- Apparatus and method for powered thermal friction adjustment. Tabar, W.J., [1995,eng] 50-3462
- Apparatus for measuring ice distribution profiles. Gerardi, J.J., et al., [1995,eng] 50-3482
- Archive of digital data from the Defense Meteorological Satellite Program (DMSP). Kroehl, H.W., et al., [1994,eng] 50-5076
- Arctic research vessel preliminary design report. University of Alaska. Institute of Marine Science, [1994,eng] 50-5437
- Arctic tool cuts teeth on gloriholes. [1987,eng] 50-4288
- Ardalin field flows despite weather, terrain. Britton, M.W., et al., [1995,eng] 50-4396
- Artificial snow in an aggregate form of snow granules. Miura, Y., et al., [1995,eng] 50-3467
- Attempt to draw a scenario of ice/propeller interaction. Tamura, K., et al., [1996,eng] 50-4475
- Automobile traction enhancement device. Morelli, R.L., [1995,eng] 50-3470
- Belt track for track-laying vehicles and snowmobiles. Wiesner, H.H., et al., [1991,eng] 50-2239
- Better visibility needed in snowplowing. [1995,eng] 50-3855
- Buoy for all arctic seasons: the Ice-Ocean Environmental Buoy. Honjo, S.S., [1996,eng] 50-6673
- Buoys in the Arctic study heat exchange. Honjo, S.S., et al., [1996,eng] 50-6334
- Cement and lime for deep stabilization of soil. A chemical-physical study of stabilization effects. Åhnberg, H., et al., [1995,swe] 50-2168
- Cold-climate constructed wetlands. Mählum, T., et al., [1995,eng] 50-6066
- Comments on the Climax I and II experiments including replies to Rangno and Hobbs. Mielke, P.W., Jr., et al., [1995,eng] 50-640
- Concrete TLP to sit out Barents bergs. Cottrill, A., [1990,eng] 50-3866
- Conductive polymeric conduit heater. Peacock, D.G., et al., [1988,eng] 50-2330
- Construction activities inside of air structures protected from the arctic environment. Mangus, A.R., [1991,eng] 50-1730
- Construction of non-class bridges and sea moorings under the conditions of the European North. Okin, E.I., et al., [1995,rus] 50-3081
- De-icer. Briscoe, J.A., et al., [1988,eng] 50-2333
- Design and analysis of a low speed drag plow for use in deep snow. Walsh, M.R., [1991,eng] 50-6198
- Design guide for frost-protected shallow foundations. NAHB Research Center, [1994,eng] 50-3579
- Design of an Airborne Imaging Microwave Radiometer. Paul, J.L., et al., [1992,eng] 50-3570
- Design of ice booms. Foltyn, E.P., et al., [1996,eng] 50-6068
- Design of ice-navigating cargo vessels. Kitagawa, H., [1996,eng] 50-4470
- Detector for indicating ice formation on the wing of an aircraft. Luukkila, M., [1995,eng] 50-3472
- Development of a mobile garage/vehicle servicing facility. Halkey Scientific Station. Smith, A.L., et al., [1994,eng] 50-4268
- Development of a portable ice-thickness measuring instrument. Glynn, D.P., et al., [1992,eng] 50-4908
- Development of a vehicle underfloor snow-melting robot. Imai, T., et al., [1995,eng] 50-1970

- Development of a wind turbine system for Antarctica. Kimura, S., [1992,eng] 50-3633
- Development of JARE deep ice coring system (III). Takahashi, A., et al., [1996,jpn] 50-6347
- Development of leading technology in the "MOSTROI-2" (AOOT "SIBMOST") trust. Karaulov, M.E., [1995,rus] 50-3079
- Development of optimum hull forms for icebreaking cargo ships for the Northern Sea Route. Kishi, S., et al., [1996,eng] 50-4473
- Development of the original ice borehole jack. Mastersen, D.M., et al., [1996,eng] 50-5051
- Device for boring holes in ice. Solov'eva, I.U.A., [1992,rus] 50-1945
- Device for creating a spring ice jam. Ilarov, N.A., et al., [1992,rus] 50-1903
- Device for determining ice adhesion. Gnatiuk, V.V., et al., [1992,rus] 50-1931
- Device for loosening frozen ground before excavation. Mashev, V.A., et al., [1992,rus] 50-1942
- Device for loosening snow. Fedorov, V.D., et al., [1992,rus] 50-1909
- Device for maintaining ice-free areas around a floating dredging pump. Barskii, B.L., et al., [1992,rus] 50-1941
- Device for measuring pressure. Zinov'ev, V.A., et al., [1992,rus] 50-1921
- Device for measuring pressure. Zinov'ev, V.A., et al., [1992,rus] 50-1921
- Device for measuring the thickness of ice cover. Ilarov, N.A., et al., [1992,rus] 50-1930
- Device for preventing the icing of supporting structures. Barkhanov, V.N., et al., [1992,rus] 50-1929
- Device for preventing water from freezing. Turutin, B.F., et al., [1992,rus] 50-1950
- Device for protecting a bridge from naleds. Dement'ev, V.A., et al., [1992,rus] 50-1923
- Device for protecting a pipeline from freezing. Diachenko, K.S., et al., [1992,rus] 50-1916
- Device for snow retention. Khuzin, V.Kh., [1992,rus] 50-1927
- Device for strengthening ground using buried components. Ostukov, B.S., et al., [1992,rus] 50-2053
- Device for the removal of snow and ice from road pavements. Veters, V.I., et al., [1992,rus] 50-1934
- Diode laser humidity sensor for cold environments. Phase II final technical report. Silver, J.A., et al., [1991,eng] 50-4525
- Diversity of modern antarctic vessels. Mäkinen, E., et al., [1994,eng] 50-4280
- Doppler spectroscopy of antarctic wind velocities. Nakajima, H., et al., [1995,eng] 50-3811
- Drilling smaller surface holes results in substantial cost savings. Krawietz, T.E., et al., [1991,eng] 50-1739
- Drive for a brake system for rail transportation. Rudenko, I.M., et al., [1992,rus] 50-1940
- Dynamic testing of frozen soil sample with an exploding wire system. Fyfe, I.M., [1968,eng] 50-2029
- Electric current heater for pipes. Vainio, U., [1990,eng] 50-2342
- Electrical wire. Belash, I.P., et al., [1992,rus] 50-1907
- Electro-impulse de-icer. Adams, L.J., [1995,eng] 50-3469
- Electromagnetic wave attenuating and deicing structure. Webster, S.D., et al., [1991,eng] 50-2343
- Evaluation of double-sided beam and girder constructions tension subject to local ice loads. Barabanov, N.V., et al., [1996,eng] 50-4465
- Experimental design for laboratory simulation of periglacial solifluction processes. Harris, C., et al., [1996,eng] 50-5778
- Fishing with 1.5- and 1.75-in. coiled tubing at western Prudhoe Bay, Alaska. Mullin, M.A., et al., [1991,eng] 50-1699
- Flagship of bridge building in Siberia. Vinogradov, S.N., et al., [1995,rus] 50-3080
- Free vibrations of a snowboard. Sakata, T., et al., [1996,eng] 50-4568
- Frost damage proofed pile. Takeda, T., et al., [1989,eng] 50-2243
- Frost heave research at the University of Nottingham. Jones, R.H., [1977,eng] 50-2312
- Frost heave—testing facilities. Kettle, R.J., [1977,eng] 50-2315
- Geocryological conditions for power plant foundations in Russia. Krivonogova, N.F., et al., [1991,eng] 50-1736
- Gravitational platform and the means for its assembly. Ionin, V.S., et al., [1992,rus] 50-1904
- Heated anemometer for atmospheric icing environments. Kenyon, P.R., et al., [1992,eng] 50-3638
- Heated mat structure for melting ice and snow. Dyer, C.W., [1995,eng] 50-3477
- Hydrodynamic performance of ship hull forms designed for the NSR cargo ship. Uto, S., et al., [1996,eng] 50-4474
- Hydrotechnical structure for fast ice. Silin, A.V., et al., [1992,rus] 50-1937
- Ice accretion and persistence measuring instrument. Franklin, C.H., et al., [1991,eng] 50-4364
- Ice breaking device for an offshore platform. Mishin, V.N., et al., [1992,rus] 50-1949
- Ice conditions and navigability of the NSR-vessels: present and future. Schwarz, J., [1996,eng] 50-4491
- Ice dam melting system. Tourangeau, D.R., et al., [1995,eng] 50-3481
- Ice detection apparatus for transportation safety. Stolarczyk, L.G., et al., [1995,eng] 50-3475
- Ice passage. [1996,eng] 50-4621

- Ice platform. Gabibov, F.G., et al., [1992,rus] 50-1924
- Ice resistance of three bow forms for the NSR cargo ship. Izumiya, K., et al., [1996,eng] 50-4471
- Ice-breaking device frees structures. [1989,eng] 50-5650
- Icebreakers. Kashtelian, V.I., et al., [1972,rus] 50-387
- Icing test and rework of WECS for use on Lapland's fjells. Böhme, G., et al., [1992,eng] 50-3635
- Identification of ice classes and rules for ships intended to navigate in the Arctic. Karavanov, S.B., et al., [1996,eng] 50-4464
- Improved structure and construction engineering of bases and foundations on permafrost. Leikam, A.B., et al., [1989,rus] 50-2255
- Inexpensive water collectors for study of surface water acidification during snowmelt. Gaskin, G.J., et al., [1995,eng] 50-1569
- Innovations on a quartz crystal microbalance frost-point hygrometer. Kaluzhny, M., et al., [1995,eng] 50-414
- Insulating structure. Ericsson, B., [1989,eng] 50-2340
- Investigation into ice detection parameters for turboprop aircraft. Render, P.M., et al., [1996,eng] 50-4218
- Laboratory testing of air retarders in metal building panels. Flanders, S.N., et al., [1995,eng] 50-1980
- Large-diameter glory hole drilling: the evolution from 12- to 20-ft diameter. Shields, R.G., [1991,eng] 50-1738
- Lessons from failures in metal-structure buildings and structures in the North; a manual. Kornilov, T.A., et al., [1995,rus] 50-5140
- Machine for breaking up hard materials. Liubinskii, G.B., et al., [1992,rus] 50-1938
- Machine for removing snow from railroad tracks. Molin, N.V., et al., [1992,rus] 50-1935
- Manual for freezing soil heave stress testing unit. Martin, R.T., [1974,eng] 50-4265
- Measurement of ice accretion and persistence at unmanned sites. Final report. Hill, G.E., [1990,eng] 50-4365
- Meteorological satellite instrumentation. Kidder, S.Q., et al., [1995,eng] 50-3154
- Method and apparatus for timed de-icing. Kugelman, M.M., et al., [1987,eng] 50-2334
- Method and system for detecting potential icy conditions on roads. Rendon, E., [1995,eng] 50-3461
- Method of and apparatus for removing debris from the floppical medium. Johnson, P.R., et al., [1995,eng] 50-3464
- Method to prevent weld zone corrosion in offshore structures. DeGeer, D.D., et al., [1991,eng] 50-1726
- Mobile offshore platform and a method for its assembly and dismantling. Ionin, V.S., [1992,rus] 50-1948
- Modular articulated track for automotive vehicles. Remy, C., et al., [1993,fre] 50-2229
- New, low-cost, ice- and wave-resistant port facility at Nome, Alaska. Swigart, W.S., et al., [1991,eng] 50-1732
- Northern Sea Route reconnaissance study: a summary of ice-breaking technology. Sodhi, D.S., [1995,eng] 50-395
- Northern Sea Route: future & perspective. Northern Sea Route; future & perspective. Proceedings of INSROP Symposium, Tokyo, Oct. 1-6, 1995. [1996,eng] 50-4419
- Oceanic satellites in the Global Ocean Observing System. Sherman, J.W., III, [1993,eng] 50-4801
- Offshore development in iceberg-infested waters with the use of a concrete protective barrier. Broughton, P., et al., [1991,eng] 50-1731
- Optimal design of piping systems for district heating. Pheleplace, G., [1995,eng] 50-1519
- OTH-backscatter power plant foundation design for warm, ice-rich permafrost soils. Foster, M.L., et al., [1991,eng] 50-1735
- Performance of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al., [1996,eng] 50-3408
- Performance of lagoons experiencing seasonal ice cover. Price, D.S., et al., [1995,eng] 50-2124
- Pneumatic regeneration system of a filtration substance in filters. Tomaides, M., et al., [1962,cze] 50-2228
- Pneumatic tire, mold, and method manufacturing. Aoki, N., et al., [1992,eng] 50-2332
- Pneumatic tire. Aoki, N., et al., [1992,eng] 50-2331
- Pneumatic tires. Morimoto, Y., et al., [1992,eng] 50-2329
- Pneumatic tyre. Shibata, K., [1992,eng] 50-2335
- Polar Ozone and Aerosol Measurement instrument. Glaccum, W., et al., [1996,eng] 50-5765
- POST: Polar Stratospheric Telescope. Bely, P.Y., et al., [1995,eng] 50-2527
- Power loss in inclement weather. Volk, L., [1992,eng] 50-3796
- Precipitation gauge. Weydert, M., et al., [1990,ger] 50-3384
- Precipitation hydrometer characterization by a CW Doppler radar. Duvernoy, J., et al., [1996,eng] 50-5165
- Preliminary assessment of design and performance of frost susceptibility testing facilities. Dudek, S., [1977,eng] 50-2313
- Probe method for interstitial soil water sampling. Harrison, W.D., et al., [1981,eng] 50-3063
- Proceedings. International Experts' Meeting on Wind Power in Icing Conditions, Helsinki, Finland, 1992. Boreas-North Wind-Pohjatuuli, [1992,eng] 50-3626
- Protecting water meters from freezing. Kotry, J., [1992,eng] 50-3559
- Protection of arctic bridge crossing by refrigerated foundation. Christopherson, A.B., et al., [1991,eng] 50-1734
- Railroad tracks on ice-rich permafrost. Kondrat'ev, V.G., et al., [1992,rus] 50-1925
- Ribbon track for tracked vehicles and snowmobiles. Wiesner, H.H., et al., [1990,ger] 50-2500

Design criteria

Detection

- Rotary snow remover. Zalko, A.I., et al. [1992.rus] 50-1932
 Rotatable shortwave curtain antenna operable at very high wind speeds. Bruger, P., et al. [1996.eng] 50-6621
 Salient features of the design of large arctic ships with a restricted draft. Tsoi, L.G., [1996.eng] 50-4431
 Screw anchors economically control pipeline buoyancy in muskeg. Robertson, R., et al. [1995.eng] 50-4003
 Self-contained anti-skid device for pneumatic tires. Yadegar, I., [1995.eng] 50-3458
 Self-propelled scooter for transporting and carrying uphill one or more persons on snow and/or ice. Bianco, N., [1993.eng] 50-2337
 Self-regulating deicer valve. Phillips, R.W., II, [1988.eng] 50-2244
 Series of model tests in ice of ice-going cargo ships for future traffic in the Northern Sea Route. Ishikawa, S., et al. [1996.eng] 50-4472
 Siberian company starts up modular refinery. [1996.eng] 50-5575
 Smart skis and other adaptive structures. Ashley, S., [1995.eng] 50-4618
 Snow and ice removal apparatus. Stanger, T.P., [1995.eng] 50-3480
 Snow guard. Smeja, G.C., et al. [1995.eng] 50-3474
 Snow-drift modelling and control. Ring, S.L., [1991.eng] 50-4906
 Snow-scoop with a tipping mechanism. Mannio, J., [1993.eng] 50-2231
 Snowplow. Ermilov, A.B., et al. [1992.rus] 50-1928
 Some innovations in snow and ice control equipment. [1995.eng] 50-4156
 Splash board for car bodies. Szabó, Z., [1989.eng] 50-2341
 Standardization of corrosion wear of shell plating for ice ships operations. Kulesh, V.A., et al. [1996.eng] 50-4466
 Steel and steel reinforced concrete spans of modern bridges. Platonov, A.S., et al. [1995.rus] 50-3084
 Submersible remote controlled vehicles for glacier-ocean-sediment study. Dowdeswell, J.A., et al. [1996.eng] 50-4902
 System for recovery of oil from snow and ice surfaces. Aiken, L.B., [1995.eng] 50-3473
 Testing facilities—self refrigerating units. Frost cabinet temperature distribution. Hill, J., [1977.eng] 50-2314
 Thermal machine for clearing airport pavements of snow and ice. Mogutnov, A.A., [1992.rus] 50-1910
 Thermosiphon-based designs and applications for foundations built on permafrost. Zarling, J.P., et al. [1991.eng] 50-1733
 Towed geophone system for use in snow-covered terrain. King, E.C., et al. [1996.eng] 50-6225
 Tree-clip development in microirrigation allows easy frost and freeze protection. Thayer, S.S., [1995.eng] 50-3076
 Turbine engine icing spray bar design issues. Bartlett, C.S., [1995.eng] 50-1654
 Underground fuel tanks for Alaska. Freas, G.C., [1991.eng] 50-4226
 Underwater transport system for the Arctic. Kuteinikov, A.V., et al. [1996.eng] 50-4476
 Universal frost susceptibility test apparatus. Chamberlain, E.J., [1986.eng] 50-1974
 Upper Atmosphere Research Satellite (UARS) Microwave Limb Sounder (MLS) experiment. Waters, J., et al. [1992.eng] 50-3561
 Ventilated cap system for the ridge of a roof. Sells, G.L., [1995.eng] 50-3466
 Warning device for precipitation. Romanov, E.V., et al. [1992.rus] 50-1906
 Wheels that provide lateral friction on ice. Alderman, R.L., et al. [1995.eng] 50-3460
 Wind measurements at Ylläs broadcasting station 1982-1991. Lehtonen, P., [1992.eng] 50-3632
 Wind turbines in northern climates—Canadian experiences. Brothers, C., [1992.eng] 50-3634
 Windshield defroster. Yoshikawa, H., et al. [1987.eng] 50-2242
 Windshield wiping device for automobiles. Kühbauch, G., [1993.ger] 50-2389
 Working element of a tool with lifting-percussion action. Glebov, V.D., et al. [1992.rus] 50-1915
 Working tool for snow clearing. Gavrilov, I.U.M., et al. [1992.rus] 50-1908
 World Oil's handbook of arctic well completions. Goodman, M.A., [1978.eng] 50-2057
- Design criteria**
 Analysis of outer shell wear for ice-going ships. Shemendiuk, G.P., et al. [1996.eng] 50-4467
 Arctic and Offshore Research Information System. Shoemaker, H.D., et al. [1991.eng] 50-1753
 Arctic not so costly and design ice loads falling. [1990.eng] 50-5586
 Arctic research vessel preliminary design report. University of Alaska. Institute of Marine Science, [1994.eng] 50-5437
 Arctic tanker structural requirement evaluation. Final report. McCallum, J.S., et al. [1995.eng] 50-4124
 Atmospheric icing on transmission line towers in Iran. Arabani, M.P., et al. [1996.eng] 50-5364
 Attempt to draw a scenario of ice/propeller interaction. Tamura, K., et al. [1996.eng] 50-4475
 Calculation of the strength of the ice cover during breakup of rivers. Ginzburg, B.M., et al. [1995.eng] 50-3551
 Climate of freezing rain over the province of Québec in Canada: a preliminary analysis. Laflamme, J.N., et al. [1996.eng] 50-5333
- Cold climate concerns. Part 2. Infrastructure planning and maintenance. Ryan, W.L., [1995.eng] 50-1077
 Combined wind and ice loads from historical extreme wind and ice data. Krishnasamy, S., et al. [1996.eng] 50-5350
 Computational modelling of brittle ice fragmentation. Tuhkuri, J., [1996.eng] 50-5942
 Concepts for frost design for upgraded runway at CONUS Base 18. Johnson, T.C., [1984.eng] 50-2308
 Contrast between natural and simulated snowdrift experiments. Naaïm-Bouvet, F., [1995.eng] 50-1063
 Dam construction for Norway's largest hydropower reservoir. Karlén, L.E., et al. [1995.eng] 50-5707
 Design of girders for a bridge in Hokkaido subject to snow and wind. Endo, T., et al. [1995.jp] 50-6807
 Design of ice booms. Folyt, E.P., et al. [1996.eng] 50-6068
 Design of ice-navigating cargo vessels. Kitagawa, H., [1996.eng] 50-4470
 Development of optimum hull forms for icebreaking cargo ships for the Northern Sea Route. Kishi, S., et al. [1996.eng] 50-4473
 Effect of climate warming on the Qinghai-Tibet Highway. China. Tong, C.J., et al. [1996.eng] 50-3830
 Effects of global warming on building construction on permafrost. Khristalev, L.N., [1996.eng] 50-5861
 Effects of roof size on snow loads. Irwin, P.A., et al. [1995.eng] 50-3010
 Environmental loading studies for the CSA Offshore Structures Code. Allyn, N., et al. [1995.eng] 50-1411
 Estimation of reliability of permafrost beds. Gerasimov, A.S., [1995.eng] 50-344
 Failures of overhead lines due to ice and wet snow in Serbia. Vučković, Z., et al. [1996.eng] 50-5365
 Fatigue criteria for asphalt pavements. Laboratory and field criteria. Committee 34. Wiman, L.G., ed. [1996.swe] 50-5603
 Fifteen years field trials of galloping controls for overhead power lines. Havard, D.G., [1996.eng] 50-5382
 Frost resistance of roller-compacted high-volume fly ash concrete. Pigeon, M., et al. [1995.eng] 50-1466
 Full depth testing of frost susceptible soils. Rice, D.C., [1974.eng] 50-4401
 Gulf Canada probabilistic ice load model: operation and parametric sensitivity study. Watson, D.A., et al. [1995.eng] 50-1413
 Heat transfer through permeable cold-weather clothing. Kind, R.J., et al. [1995.eng] 50-1139
 Hibernia edges forward as bidding starts. Fox, C., [1988.eng] 50-4969
 Hydraulic fill ash storage design for the permafrost zone. Koritova, I.V., et al. [1995.eng] 50-1838
 Hydrodynamic performance of ship hull forms designed for the NSR cargo ship. Uto, S., et al. [1996.eng] 50-4474
 Ice conditions and navigability of the NSR-vessels: present and future. Schwarz, J., [1996.eng] 50-4491
 Ice impact tests on *Nathaniel B. Palmer*. St. John, J.W., et al. [1995.eng] 50-860
 Ice resistance of three bow forms for the NSR cargo ship. Izumiya, K., et al. [1996.eng] 50-4471
 Ice risk levels—a practical approach to design. Sjøstrøm-Andersen, U., [1996.eng] 50-5354
 Iceberg-structure interaction probabilities for design. Fuglem, M., et al. [1996.eng] 50-5052
 Icing-prone grounded transmission wires in Slovenia. Jakše, J., et al. [1996.eng] 50-5405
 Identification of ice classes and rules for ships intended to navigate in the Arctic. Karavanov, S.B., et al. [1996.eng] 50-4464
 IEC TC11 WG11—report on meteorological data for assessing climatic loads. Ervik, M., et al. [1996.eng] 50-5347
 Incorporation of a drainage layer and infiltration into FROST. Abdel-Salam, A., et al. [1993.eng] 50-6050
 Inflight icing: certification vs. reality. Steenblik, J.W., [1995.eng] 50-1962
 Interpretation of field measurements for ice engineering applications. Gold, L.W., [1996.eng] 50-5050
 Joint probability of environmental loads on marine structures. Liu, D.F., et al. [1995.eng] 50-196
 Laboratory tests for ice interaction with steel booms. Timco, G.W., et al. [1996.eng] 50-5812
 Lessons from failures in metal-structure buildings and structures in the North: a manual. Kornilov, T.A., et al. [1995.rus] 50-5140
 Mathematical model of frost heave and thaw settlement in pavements—draft. Guymon, G.L., et al. [1986.eng] 50-4348
 Mathematical model to correlate frost heave of pavements with laboratory predictions. Final report. Berg, R.L., et al. [1996.eng] 50-3333
 Mechanistic design of asphalt concrete pavements in cold regions. Vinson, T.S., et al. [1996.eng] 50-6191
 Methods to estimate ice accumulations on surface structures. Schaub, W.R., Jr., [1996.eng] 50-5360
 Modeling power line icing in freezing precipitation. Makkonen, L., [1996.eng] 50-5362
 Northern Sea Route reconnaissance study: a summary of ice-breaking technology. Sodhi, D.S., [1995.eng] 50-395
 Northern Sea Route: future & perspective. Northern Sea Route: future & perspective. Proceedings of INSROP Symposium. Tokyo, Oct. 1-6. 1995. [1996.eng] 50-4419
 Northumberland Strait bridge: analysis techniques and results. Ghali, A., et al. [1996.eng] 50-5046
- Optimal fracture stimulation of a moderate permeability reservoir. Kuparuk River unit. Pearson, C.M., et al. [1991.eng] 50-1701
 Perturbation-based finite element analyses of transmission line galloping. Desai, Y.M., et al. [1996.eng] 50-4291
 Pile bearing capacity in frozen soils. Mirenbur, I.U.S., [1996.eng] 50-6054
 Polish design standards for transmission line icing. Dembicki, E., et al. [1996.eng] 50-5396
 Post-yield strength of icebreaking ship structural members. Des-Rochers, C.G., et al. [1995.eng] 50-877
 Potential for greater use of wetlands for waste treatment in northern Canada. Dokai, I.A., et al. [1995.eng] 50-361
 Prediction of permafrost temperature in bed of structure from field data. Khristalev, L.N., et al. [1995.eng] 50-345
 Preliminary study of tankers for year-round transportation of crude oil from Ob Gulf. Tsoi, L.G., et al. [1996.eng] 50-4461
 Primary and secondary containment of hazardous substances in cold regions with HDPE liner. Richards, F.T., et al. [1991.eng] 50-1710
 Probability distributions used in 100-year return period of air-freezing index. Steurer, P.M., [1996.eng] 50-4753
 Problem of choice of the design parameters for ice thickness. Polomoshov, A.M., et al. [1996.eng] 50-5901
 Protection against chloride-induced corrosion. Berke, N.S., et al. [1988.eng] 50-4229
 Rapid test for the determination of frost susceptibility of soils. Leary, R.M., [1977.eng] 50-4259
 Relation between sea ice loads and arctic offshore structures. Blanchet, D., et al. [1991.eng] 50-1721
 Research report on snowproofing of houses. Uchida, Y., ed. [1984.jp] 50-2291
 Romanian experience in meteorological zoning for designing of overhead lines (OLs). Goia, L.M., [1996.eng] 50-5332
 Salient features of the design of large arctic ships with a restricted draft. Tsoi, L.G., [1996.eng] 50-4431
 Sand liquefaction strength obtained by in situ freezing. Hatanaka, M., et al. [1995.eng] 50-1179
 Scientific basis for the construction of railroads. Pereselenkov, G.S., [1995.rus] 50-3082
 Simulation of ship transit for Baltic ice conditions. La Prairie, D., et al. [1995.eng] 50-4583
 Standardization of corrosion wear of shell plating for ice ships operations. Kulesh, V.A., et al. [1996.eng] 50-4466
 Structure-independent measurement of icing. Makkonen, L., [1992.eng] 50-3629
 Study of Alaskan snow loads. Stember, J.A., [1994.eng] 50-370
 Thermal protection of concrete dams subject to freeze-thaw cycles. Léger, P., et al. [1995.eng] 50-576
 Underwater transport system for the Arctic. Kuteinikov, A.V., et al. [1996.eng] 50-4476
 Use of layered theory in the design and evaluation of pavement systems. Hicks, R.G., et al. [1982.eng] 50-5914
 Wear resistant concrete for pavements. Pedersen, N., [1988.eng] 50-4227
- Destructive effects**
 See [also]: Building codes
 See [also]: Damage
- Detection**
 Aerial surveillance of oil sheen following the Exxon Valdez oil spill shoreline cleanup. Taft, D.G., et al. [1995.eng] 50-3919
 Algorithm for simulating wave propagation through sea ice. Blackowiak, A.D., et al. [1995.eng] 50-1644
 Attenuation of microwaves by spherical hail. Battan, L.J., et al. [1986.eng] 50-4639
 Bismuth in recent snow from central Greenland: preliminary results. Candelone, J.P., et al. [1995.eng] 50-779
 Comments on "Production of ice particles in clouds due to aircraft penetrations". Mossop, S.C., et al. [1984.eng] 50-4917
 Detection of polar stratospheric clouds with ERS-2/GOME data. Meerkötter, R., [1995.eng] 50-2150
 Dual polarization radar observations of thunderclouds in winter season. Sonoi, Y., et al. [1995.eng] 50-4258
 Effect of ethanol additives on odor detection of Alaskan gasolines. Zhao, X.H., et al. [1995.eng] 50-3393
 Engineers in Bosnia: an overview. Treleven, D.L., [1996.eng] 50-5144
 Environmentally caused variation in exterior intrusion detection. Peck, L., [1995.eng] 50-888
 Finger-shaped echoes of hailstorm and the possible mechanism of their formation. Ma, Z.H., et al. [1983.eng] 50-4096
 Global identification of snowcover using SSM/I measurements. Grody, N.C., et al. [1996.eng] 50-2704
 Greenland '90: a first step toward using the polar ice cap as a Cherenkov detector. Barwick, S.W., et al. [1992.eng] 50-4263
 How AgI aerosol dispersion may effect cloud seeding detection. Warburton, J.A., et al. [1995.eng] 50-347
 Improved detection of acoustic sources in ice-ridging ocean environment. Zala, C.A., et al. [1995.eng] 50-1461
 Intercomparison of mesoscale forecasts of aircraft icing using SSM/I retrievals. Tremblay, A., et al. [1996.eng] 50-4524
 Nocluculent cloud observations over Greenland by a Rayleigh lidar. Thayer, J.P., et al. [1995.eng] 50-4542
 Observations of polar stratospheric clouds in the arctic winter 1989 at 79°N. Krüger, B.C., [1990.eng] 50-5984
 On radio detection of ultrahigh energy neutrinos in antarctic ice. Frichter, G.M., et al. [1996.eng] 50-4024

Deterioration

- On the scattered radiation intensity fluctuations for a focused laser beam in snowfall. Vostretsov, N.A., et al. [1994,eng] 50-1285
- Polarimetric detection of objects buried in snowpack by a synthetic aperture FM-CW radar. Yamaguchi, Y., et al. [1996,eng] 50-2700
- SAGE II observations of polar stratospheric clouds near 50°N January 31-February 2, 1989. Pitts, M.C., et al. [1990,eng] 50-5994
- SAM II aerosol measurements during the 1989 AASE. Osborn, M.T., et al. [1990,eng] 50-5992
- Sampling-rate effects on the properties of dye breakthrough curves from glaciers. Nienow, P.W., et al. [1996,eng] 50-4903
- SAR interferometric signatures of forest. Wegmüller, U., et al. [1995,eng] 50-981
- Techniques and procedures for route clearance. Schneek, W.C., Jr., et al. [1996,eng] 50-5143
- Ultratransparent antarctic ice as a supernova detector. Halzen, F., et al. [1996,eng] 50-6323
- Underwater maintenance and inspection of CP systems (Cook Inlet, Alaska). Daley, J.C., et al. [1996,eng] 50-5502
- See [also]: Crevasse detection; Ice detection; Moisture detection
- Deterioration**
See [also]: Ice deterioration
- Detonation waves**
Explosives in frozen ground. Roberts, A., [1971,eng] 50-5763
- Underwater explosions beneath ice. Tanglis, E., et al. [1989,eng] 50-3836
- Detritus**
North Pacific rapid climate variability. Kotilainen, A.T., et al. [1995,eng] 50-338
- Deuterium oxide**
See [also]: Heavy water
- Deuterium oxide ice**
Amorphous ice molecular transitions under electron bombardment. Kimmel, G.A., et al. [1995,eng] 50-156
- Compression of ice to 210 gigapascals. Goncharov, A.F., et al. [1996,eng] 50-5445
- Disorder in ice Ih. Nield, V.M., et al. [1995,eng] 50-1134
- Electron-stimulated dissociation of amorphous ice. Kimmel, G.A., et al. [1995,eng] 50-2160
- Fluorescence spectra and lifetime of 2-naphthol in H₂O- and D₂O-ice(I_h) single crystal. Ping, Q., et al. [1995,eng] 50-2161
- High-pressure elastic properties of the VI and VII phase of ice in dense H₂O and D₂O. Shimizu, H., et al. [1996,eng] 50-4355
- Spectroscopy of deuterium oxide ice adsorbed onto a hydrocarbon. Engquist, I., et al. [1995,eng] 50-1855
- Spectroscopy of deuterium oxide ice desorption and substrate wettability. Engquist, I., et al. [1995,eng] 50-1570
- Structure of ice Ih from analysis of single-crystal neutron diffuse scattering. Nield, V.M., et al. [1995,eng] 50-2696
- Development**
See [also]: Economic development; Land development; Landscape development; Natural resources
- Dew point**
Diode laser humidity sensor for cold environments. Phase II final technical report. Silver, J.A., et al. [1991,eng] 50-4525
- Diagenesis**
Biogeochemistry of sediment diagenesis at Kara Sea-Yenisey River boundary layer. Lein, A.U., et al. [1995,eng] 50-3535
- Composition, properties and radiocarbon age of humus in paleosols. Chichagova, O.A., [1995,eng] 50-1047
- Conditions of the occurrence and structure of layered deposits of ground ice. Koreisha, M.M., et al. [1983,rus] 50-313
- Effect of diagenesis on the cryogenic structure of marine and lacustrine deposits. Khimenkov, A.N., et al. [1985,rus] 50-245
- Enhanced dating procedures for arctic Quaternary marine deposits. Goodfriend, G.A., et al. [1996,eng] 50-4580
- European soil thermal contraction related to ice sheet dynamics. van Vliet-Lanoë, B., [1996,fre] 50-6340
- Ferromanganese nodules of the Kara Sea. Bogdanov, I.U.A., et al. [1995,eng] 50-3547
- Geochemistry of volcanic ashes from Greenland Basin. Haase, K.M., et al. [1996,eng] 50-5267
- Geological evolution and diagenetic mineralization in Xinjiang. Tu, G.Z., [1993,chi] 50-2351
- Glacial crushing, weathering and diagenetic histories of quartz grains. Mahaney, W.C., [1995,eng] 50-3595
- Ice-wedge formation in northern Asia during the Holocene. Vasilchuk, I.U.K., et al. [1996,eng] 50-6705
- Identification of ice-rafted sediments in Atlantic Ocean bottom cores. Auffret, G.A., et al. [1996,eng] 50-5218
- Identification of paleosol types and their applicability for paleoclimatic reconstructions. Morozova, T., [1995,eng] 50-1046
- Pleistocene paleosol soil development in northwest Alaska. Höfle, C., et al. [1996,eng] 50-6517
- Rare earths in the granitoids of the Altay region. Zhao, Z.H., et al. [1993,chi] 50-2368
- Reservoir potential of an upwelling deposit, Prudhoe Bay. Kupez, J.A., [1995,eng] 50-6551
- Secondary precipitates in Pleistocene and present cryogenic environments. Vogt, T., et al. [1996,eng] 50-4045
- Sedimentary petrogenesis and its characteristics in the cryolithozone. Danilov, I.D., [1995,eng] 50-6074
- Subarctic lake pollution by gold mine arsenic effluent. Bright, D.A., et al. [1996,eng] 50-4207

Dictionaries

- Albedo. Kellogg, W.W., [1996,eng] 50-4974
- Antarctic ice sheet. Drewry, D.J., [1996,eng] 50-4976
- Antarctic snow and ice sciences glossary. Japanese Society of Snow and Ice. Polar Snow and Ice Branch Committee (Nihon seppyo gakkai Kyokuchi seppyo bunkakai iinkai), [1982,jpn] 50-339
- Antarctica. Warren, S.G., [1996,eng] 50-4975
- Arctic. Barry, R.G., [1996,eng] 50-4977
- Avalanches. Armstrong, R.L., [1996,eng] 50-4978
- Cirrus clouds. Heymsfield, A.J., [1996,eng] 50-4979
- Cloud physics. Orville, H.D., [1996,eng] 50-4980
- Cores. Kneller, M., [1996,eng] 50-4981
- Encyclopedia of climate and weather. [1996,eng] 50-4973
- Frost. Henry, J.A., [1996,eng] 50-4982
- Glaciers, snow and ice—dictionary of glaciology, snow and avalanche research in Switzerland. Ziehr, W., ed. [1993,ger] 50-3385
- Glaciers. Meier, M.F., [1996,eng] 50-4983
- Global warming. Chandler, M.A., [1996,eng] 50-4984
- Greenhouse effect. Kellogg, W.W., [1996,eng] 50-4985
- Greenland Ice Sheet. Alley, R.B., [1996,eng] 50-4986
- Hail. Knight, N.C., [1996,eng] 50-4987
- Hailstorms. Bluestein, H.B., [1996,eng] 50-4988
- Ice age sea level. Gornitz, V., [1996,eng] 50-4990
- Ice ages. Kneller, M., [1996,eng] 50-4989
- Icebergs. Allison, I., [1996,eng] 50-4991
- Icelandic Low. Hordon, R.M., [1996,eng] 50-4992
- Japan Meteorological Agency sea ice terms. Japan Meteorological Agency. Marine Meteorology Department (Kishocho Kaiyo kishobu), [1975,jpn] 50-407
- Little Ice Ages. Grove, J.M., [1996,eng] 50-4993
- Multilingual ice terminology. Addendum I. International Association for Hydraulic Research. Section on Ice Problems, [1980,eng] 50-3241
- Multilingual vocabulary—snow and avalanches. International Mountain Rescue Commission, [1991,eng] 50-5292
- North Pole. Headland, R.K., [1996,eng] 50-4994
- Ozone hole. Hall, T.M., [1996,eng] 50-4995
- Paleoclimates. Martinson, D.G., [1996,eng] 50-4996
- Polar lows. Rasmussen, E.A., [1996,eng] 50-4997
- Sea ice. Parkinson, C.L., [1996,eng] 50-4998
- Snow cover. Colbeck, S.C., [1996,eng] 50-4615
- Snow. Colbeck, S.C., [1996,eng] 50-4614
- Snowstorms. Cohen, J., [1996,eng] 50-4999
- Swedish contribution to Permafrost Association permafrost lexicon. Åkerman, H.J., et al. [1993,eng] 50-4793
- Taiga climate. Bonan, G.B., [1996,eng] 50-5000
- Tundra climate. Weller, G., [1996,eng] 50-5001
- Wind chill. Kalkstein, L.S., [1996,eng] 50-5002
- Dielectric properties**
Calibration of time domain reflectometry for measurement of liquid water in frozen soils. Seyfried, M.S., et al. [1996,eng] 50-3308
- Calorimetric study of water two-dimensionally condensed on the homogeneous surface of a solid. Nagao, M., et al. [1995,eng] 50-2024
- Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar. Zeng, X.X., et al. [1995,eng] 50-1804
- DEM corrected ERS-1 SAR data for snow monitoring in alpine regions. Guneriusson, T., et al. [1995,eng] 50-3716
- Design of capacitor to measure permittivity of supercooled aqueous solutions. Wolter, F., et al. [1996,eng] 50-5503
- Dielectric moisture measurement of frozen ground. Frolov, A.D., [1996,rus] 50-6835
- Dielectric properties of frozen saline sands. Frolov, A.D., et al. [1995,rus] 50-2508
- Dielectric property of snow. Kuroiwa, D., [1953,eng] 50-3789
- Dielectric response of ice growth from dilute sulfate solutions. Gross, G.W., et al. [1994,eng] 50-1896
- Effect of freezing on the electric conductivity and dielectric constant of portland cement. Olson, R.A., et al. [1995,eng] 50-368
- Electromechanical phenomena in ice. Petrenko, V.E., [1996,eng] 50-4546
- Examining the use of time domain reflectometry for measuring liquid water content in frozen soil. Spaans, E.J.A., et al. [1995,eng] 50-2543
- Experimental study of dielectric relaxation in supercooled alcohols and polyols. Murthy, S.S.N., [1996,eng] 50-4084
- Laboratory technique for measurement of spectral induced polarization response of soil samples. Vanhala, H., et al. [1995,eng] 50-2998
- Measuring the conductivity and density of ice cores. Wilhelms, F., [1996,ger] 50-4735
- Microwave permittivity of dry snow. Mätzler, C., [1996,eng] 50-3887
- Parameters of the distribution of electromagnetic waves in frozen ground. Frolov, A.D., et al. [1995,rus] 50-2509
- Relaxation dynamics of supercooled polymers. Parthun, M.G., et al. [1995,eng] 50-1572
- Relaxation processes in supercooled carbohydrates. Gangasharan, et al. [1995,eng] 50-1571
- Search for proxy indicators of young sea ice thickness. Zabel, I.H.H., et al. [1996,eng] 50-4303
- Spectroscopic analysis of frozen cement paste microstructure. Olson, R.A., et al. [1995,eng] 50-1406
- System for detecting ice or snow on surface which specularly reflects light. Stern, H., [1995,eng] 50-3476

Diesel engines

- Diesel heat recovery plant related to local heating and electricity production. Niemi, S., [1984,eng] 50-3162
- Swedish building research in Antarctica. Swedish Council for Building Research, [1992,eng] 50-1419
- Waste management concept at the German winter station Neumayer. El Naggar, S., et al. [1994,eng] 50-4269
- Diffraction**
See [also]: X ray diffraction
- Diffusion**
Comments on the use of chemically based mixing models in glacier hydrology. Sharp, M., et al. [1995,eng] 50-447
- On the concentrations of O₂, N₂, and Ar in trapped gases from ice cores. Bender, M., et al. [1995,eng] 50-633
- See [also]: Ion diffusion; Self diffusion; Thermal diffusion; Turbulent diffusion; Vapor diffusion
- Digging**
See [also]: Excavation
- Discontinuous permafrost**
Boreal forest catchments: research sites for global change at high latitudes. Slaughter, C.W., et al. [1995,eng] 50-767
- Classification of wetland and muskeg terrain. Pietroniro, A., et al. [1996,eng] 50-5541
- Coal mine spoil instability in discontinuous permafrost. Hardy, A.J., et al. [1996,eng] 50-6166
- Ecological controls on peatland methane emissions in discontinuous permafrost. Bubier, J.L., et al. [1995,eng] 50-2803
- Holocene development of a debris slope in subarctic Québec, Canada. Marion, J., et al. [1995,eng] 50-2857
- How to make a palisade: a field experiment on permafrost formation. Seppälä, M., [1995,eng] 50-874
- Modeling of contaminant transport in groundwater in areas of discontinuous permafrost. Johnson, R., et al. [1996,eng] 50-6114
- Permafrost and thermal interfaces from Norman Wells pipeline ditchwall logs. Nixon, J.F., et al. [1991,eng] 50-1746
- Permafrost mounds in Lapland and Spitsbergen. Meier, K.D., [1989,ger] 50-645
- Pleistocene geomorphology of Qinghai Lake, China. Nakao, K., et al. [1995,eng] 50-6717
- Predicting the location of permafrost in central Yukon Territory. Williams, D.J., [1995,eng] 50-5668
- Satellite radar detection of Alaskan forest ecosystem types. Harrell, P.A., et al. [1995,eng] 50-3493
- Soil geomorphology on Alaskan permafrost terrain. Swanson, D.K., [1996,eng] 50-6518
- Use of fractal parameters to detect active layer heat transfer. Hinkel, K.M., et al. [1995,eng] 50-1138
- See [also]: Taliks
- Dislocations (materials)**
Behavior of point defects in ice crystals revealed by X-ray topography. Hondoh, T., et al. [1982,eng] 50-5800
- Dynamical processes of dislocations and point defects in ice crystal. Higashi, A., et al. [1985,jpn] 50-5793
- Investigation and repair of a terra cotta dome in a cold climate. Ogle, R., et al. [1995,eng] 50-1978
- Long-term pile load testing system performance in saline and ice-rich permafrost. Biggar, K.W., et al. [1996,eng] 50-6427
- Model pile tests in saline soils. Christopherson, A., et al. [1991,eng] 50-1719
- New flow law of ice-sheet ice. Azuma, N., [1995,jpn] 50-991
- Oilwell casing downdrag from subsidence at Prudhoe Bay. Nair, K., et al. [1971,eng] 50-4196
- On the estimation of frost loads. Rajani, B., et al. [1996,eng] 50-6751
- Structure of ordinary ice I_h. Part II: Defects in ice. Volume 2: Dislocations and plane defects. Petrenko, V.F., et al. [1994,eng] 50-390
- Dispersions**
Aerial surveillance of oil sheen following the Exxon Valdez oil spill shoreline cleanup. Taft, D.G., et al. [1995,eng] 50-3919
- Another look at oil transportation in and from the arctic environment. Marsden, S.S., Jr., et al. [1991,eng] 50-1711
- Boundary layer characteristics of the continental margin of the western Barents Sea. Thomsen, L., et al. [1994,eng] 50-1245
- Cleansing role of clay-oil flocculation in shoreline sediments following an oil spill. Bragg, J.R., et al. [1995,eng] 50-3918
- Dispersal of metal-contaminated sediments in an arctic river. Sear, D., et al. [1996,eng] 50-6516
- Freeze/thaw treatment on zone settling of waste activated sludges. Chen, G.W., et al. [1996,eng] 50-5043
- Glacial deposit geochemistry at a Manitoba mining site. Nielsen, E., et al. [1991,eng] 50-3911
- Initial phase of postfire forest regeneration in two lichen woodlands of northern Québec. Sirois, L., [1995,eng] 50-2158
- Natural cleaning of oiled coarse sediment shorelines in arctic and Atlantic Canada. Owens, E.H., et al. [1994,eng] 50-6231
- Sampling-rate effects on the properties of dye breakthrough curves from glaciers. Nienow, P.W., et al. [1996,eng] 50-4903
- Seed rain, seedling establishment and clonal growth strategies on a glacier foreland. Stöcklin, J., et al. [1996,eng] 50-5295
- Vertical particle flux on the shelf off northern Spitsbergen, Norway. Andreassen, I., et al. [1996,eng] 50-6566
- Disposal**
See [also]: Snow disposal; Waste disposal

Distribution

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- Accumulation rates of carbon in mires in Finland and implications for climate change. Tolonen, K., et al. [1995,eng] 50-6078
- Additions and range extensions to the vascular plant flora of the Northwest Territories, Canada. Cody, W.J., [1996,eng] 50-6342
- Airborne lidar observations in the wintertime arctic stratosphere: ozone. Browell, E.V., et al. [1990,eng] 50-5976
- Alpine lichens in SW Tasmania. Kantvilas, G., [1995,eng] 50-3777
- Alpine plant diversity: a global survey and functional interpretations. Körner, C., [1995,eng] 50-3892
- Arctic algal communities in the region of the Nuvuk Islands, northeastern Hudson Bay, Canada. Keats, D.W., et al. [1989,eng] 50-3692
- Arctic fungi classification and structural analysis. Currah, R.S., et al. [1996,eng] 50-4264
- Arctic lichen collections from 1959 excursion. Thomson, J.W., et al. [1992,eng] 50-6522
- Arctic Ocean radioactive isotope distribution and transport. Scholten, J.C., et al. [1995,eng] 50-4563
- Are arctic soft-sediment macrobenthic communities impoverished. Kendall, M.A., [1996,eng] 50-6720
- Atmospheric transport effects on arctic stratospheric chemistry. Yateau, J.H., et al. [1990,eng] 50-6020
- Avalanche climatology of the continental zone in the southern Rocky Mountains. Mock, C.J., [1995,eng] 50-969
- Back to basics: world climatic types. Salmond, J., et al. [1996,eng] 50-3726
- Benthic studies in the Laptev Sea. Schmid, M.K., et al. [1995,eng] 50-2087
- Bottom biocoenoses of the Laptev Sea and adjacent areas. Sirenko, B.I., et al. [1995,eng] 50-2088
- Brittle star fauna biomass in the northeastern Barents Sea. Piepenburg, D., et al. [1996,eng] 50-6719
- Clay minerals as sediment source indicators, Russian Arctic. Naidu, A.S., et al. [1995,eng] 50-1120
- Climatic and geographic patterns in snow density dynamics, northern Eurasia. Onuchin, A.A., et al. [1996,eng] 50-4342
- Composition and distribution of summer zooplankton in the Laptev Sea. Kosobokova, K., et al. [1995,eng] 50-2085
- Condensation nuclei production in the arctic polar vortex. Wilson, J.C., et al. [1990,eng] 50-5983
- Controls on glacier surging in Svalbard. Hamilton, G.S., et al. [1996,eng] 50-4900
- Daily vertical migration of antarctic copepods beneath the ice. Tselilin, V.B., et al. [1995,eng] 50-3607
- Diatom distribution on Baffin Island, Canada. Wolfe, A.P., [1996,eng] 50-6514
- Diatom, chrysophyte and protozoan distributions along a latitudinal transect in Fennoscandia. Pienitz, R., et al. [1995,eng] 50-4741
- Distribution and biomass of Greenland shelf epibenthic megafauna. Piepenburg, D., et al. [1996,eng] 50-5045
- Distribution and transport of atmospheric water vapour over the arctic basin. Serreze, M.C., et al. [1995,eng] 50-5217
- Distribution of metals in Laptev Sea pore waters. Langner, C., [1995,eng] 50-2103
- Distribution of river run-off in the Laptev Sea: the environmental effect. Dmitrenko, I.A., et al. [1995,eng] 50-2077
- Distribution of sea-ice algae in Hudson Bay. Monti, D., et al. [1996,eng] 50-5211
- Distribution of trace elements in the Laptev Sea. Hölemann, J.A., et al. [1995,eng] 50-2098
- Effects of individual ridging events on the ice thickness distribution in the arctic ice pack. Hopkins, M.A., [1996,eng] 50-3828
- Effects of pack ice on Weddell Sea plankton distribution. Kaufmann, R.S., et al. [1995,eng] 50-4160
- Effects of understory alder on forest soil fertility. Wurtz, T.L., [1995,eng] 50-1090
- Enzymatic and morphological variations in arctic grasses. Aiken, S.G., et al. [1995,eng] 50-1068
- Ferromanganese nodules of the Kara Sea. Bogdanov, I.U.A., et al. [1995,eng] 50-3547
- Foraminiferal bottom sediment assemblages from West Antarctica. Chang, S.K., et al. [1995,eng] 50-3346
- Foraminiferal evidence of Younger Dryas age cooling on the British Columbia shelf. Patterson, R.T., et al. [1995,eng] 50-5039
- Geochemical analyses of Exxon Valdez oil spill. Bence, A.E., et al. [1996,eng] 50-6339
- Glacial-ice fragments in antarctic sea ice. Haas, C., et al. [1995,eng] 50-464
- Glaciers: a water resource. Meier, M.F., et al. [1995,eng] 50-3801
- Global three-dimensional constituent fields derived from profile data. Douglass, A.R., et al. [1990,eng] 50-6018
- Hail in southwestern France. I. Hailfall characteristics and hailstorm environment. Dessens, J., [1986,eng] 50-4911
- Hydrocarbons in antarctic ice algae. Fogelqvist, E., et al. International Conference on Natural-Produced Halogens, Delft, The Netherlands, 1995. Edited by A. Grimwall and E.W.B. de Leeuw, [1995,eng] 50-4824
- Ice-covered temperate lake limnology. Agbeti, M.D., et al. [1995,eng] 50-739
- Ice-rafted tephra sedimentation of the North Atlantic. Lacasse, C., et al. [1996,eng] 50-4140
- In situ measurements of NO₂ in the Airborne Arctic Stratospheric Expedition. Carroll, M.A., et al. [1990,eng] 50-6011
- Late Holocene snow avalanche activity in southern Norway. McCarroll, D., et al. [1995,eng] 50-3336
- Latitudinal variations in lichen biology. Schipperges, B., et al. [1995,eng] 50-3781
- Lichen genus *Caloplaca* in polar regions. Søchting, U., et al. [1995,eng] 50-3778
- Lichens of alpine meadows on the Beartooth Plateau, Montana and Wyoming. U.S.A. Eversman, S., [1995,eng] 50-2815
- Measurements of total reactive nitrogen during the Airborne Arctic Stratospheric Expedition. Kawa, S.R., et al. [1990,eng] 50-6009
- Mercury and plastic in suspended Arctic Ocean sediment. Joiris, C.R., et al. [1995,eng] 50-1971
- Mesoplankton in the east Kara Sea and the Ob and Yenisey River estuaries. Vinogradov, M.E., et al. [1995,eng] 50-3539
- Mesoplankton of the west Kara Sea and the Baidara Bay. Vinogradov, M.E., et al. [1995,eng] 50-3538
- Modelling the controls on boreal tree species range limits. Sykes, M.T., et al. [1995,eng] 50-770
- Mollusc population dynamics on the antarctic shelf ocean bottom. Brey, T., et al. [1993,eng] 50-3395
- Moss species discovered in Arctic Canada. Hedderson, T.A., et al. [1992,eng] 50-6523
- Mycorrhizal diversity in arctic and alpine tundra: an open question. Gardes, M., et al. [1996,eng] 50-6550
- New ice jam database. White, K.D., [1996,eng] 50-4410
- Occurrence of sub-ice algal aggregations off northeast Greenland. Gutt, J., [1995,eng] 50-163
- On a sampling error in halpied measurements. Wirth, E., et al. [1983,eng] 50-4638
- On the summer distribution of mesozooplankton in the Nansen Basin, Arctic Ocean. Mumm, N., [1991,ger] 50-3399
- Origin and distribution of arctic lichens. Thomson, J.W., [1995,eng] 50-3776
- Paleoclimatic significance of a new Arctic Ocean foraminiferal fauna. Mullen, M.W., et al. [1995,eng] 50-3349
- Peculiarities of diatom thanatocoenoses formation in the sediments of the Eurasian arctic seas. Poliakov, E.I., [1995,eng] 50-2536
- Physical characteristics of arctic stratus clouds. Tsay, S.C., et al. [1984,eng] 50-4922
- Phytoplankton biomass and taxonomy around Elephant I. Villafañe, V.E., et al. [1995,eng] 50-1826
- Plankton biomass in the Arctic Ocean. Timofeev, S.F., [1995,eng] 50-2086
- Plankton bloom in a Greenland pingo. Kristiansen, J., et al. [1995,eng] 50-366
- Plant form and function in alpine New Guinea. Hnatuk, R.J., [1994,eng] 50-3060
- Population biology of Mount Kenya lobelias. Young, T.P., [1994,eng] 50-3057
- Population biology of *Senecio keniodendron* (Asteraceae)- and Afroalpine giant rosette plant. Smith, A.P., et al. [1994,eng] 50-3058
- Population dynamics of a Hawaiian alpine rosette plant. Rundel, P.W., et al. [1994,eng] 50-3059
- Pore size effects on road subgrade frost susceptibility. Wood, L.E., et al. [1982,eng] 50-2028
- Primary production and chlorophyll in the Kara Sea in September 1993. Vederikov, V.I., et al. [1995,eng] 50-3536
- Problems of metallogeny of the Arctic. Dodin, D.A., et al. [1994,eng] 50-1207
- Rain production in convective clouds, pt.2. Reisin, T., et al. [1996,eng] 50-6325
- Reconstruction of O₃ and N₂O fields from ER-2, DC-8, and balloon observations. Lait, L.R., et al. [1990,eng] 50-6017
- Redistribution of reactive odd nitrogen in the lower arctic stratosphere. Hübler, G., et al. [1990,eng] 50-6002
- Review of the geochemistry of methane in natural gas hydrate. Kvenvolden, K.A., [1995,eng] 50-6229
- Revision of structural classifications of some arctic and alpine herb species. Chmielewski, J.G., [1995,eng] 50-873
- Roufleur ecology in high-altitude alpine sites. Jersabek, C.D., [1995,eng] 50-4163
- Sediment reworking by ice gouging in the western Laptev Sea. Lindemann, F., et al. [1995,eng] 50-2096
- Sensor mapping of arctic wetland distribution. Morrissey, L.A., et al. [1996,eng] 50-4764
- Shoreline oiling conditions in Prince William Sound following the Exxon Valdez oil spill. Neff, J.M., et al. [1995,eng] 50-3923
- Shrub ecology in an arctic landscape. Elvebak, A., et al. [1995,eng] 50-6070
- Simulation of polar stratospheric aerosols. Kaye, J.A., et al. [1990,eng] 50-6019
- Snowfall distribution on the seaside of Hokkaido, Japan. Tachibana, Y., [1995,eng] 50-342
- Snowpack water equivalent statistic derived from an observer network. Wilks, D.S., et al. [1996,eng] 50-5199
- Solifluction in northern Finland: past and present. Seppälä, M., [1993,eng] 50-830
- Solifluction in the Swedish mountains. Ulfstedt, A.C., [1993,eng] 50-840
- Solifluction in the Swiss Alps and Bolivia. Graf, K., [1993,eng] 50-838
- Spatial and temporal distribution of storm precipitation in southwestern British Columbia. Loukas, A., et al. [1996,eng] 50-2603
- Spatial pattern in lichen communities. Dale, M.R.T., [1995,eng] 50-3780
- Spectroscopic study of heavy ozone isotopes in the arctic atmosphere. Meier, A., et al. [1996,eng] 50-3550
- Structure of microphytoplankton assemblages. Froneman, P.W., et al. [1995,eng] 50-1324
- Study of Bering Sea primary productivity. Sapozhnikov, V.V., et al. [1995,eng] 50-6687
- Study of brash ice in the proximal marine zone of a sub-polar tidewater glacier. Smith, N.D., et al. [1996,eng] 50-6224
- Surface sediment mineralogy of the Laptev Sea. Wahsner, M., [1995,eng] 50-2099
- Svalbard—field excursion in arctic marine biology, June 5-14, 1995. Weissenberger, J., ed. et al. [1995,eng] 50-1554
- Synopsis of Alaska wetland vegetation. Batten, A.R., [1987,eng] 50-3912
- Taiga climate. Bonan, G.B., [1996,eng] 50-5000
- Tardigrada of the arctic tundra with descriptions of two new species. Maucci, W., [1996,eng] 50-5293
- Temporal and spatial variations in hail in the upper Great Plains and Midwest. Changnon, S.A., Jr., [1984,eng] 50-4497
- Till genesis through shear diffusion. Charbonneau, R., et al. [1995,eng] 50-3364
- Zooplankton of the Laptev Sea coastal waters. Petrishov, V.V., et al. [1995,eng] 50-2084
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- Disturbances**
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- Diurnal variations**
Air Force Global Weather Central Surface Temperature model. Kopp, T.J., [1995,eng] 50-3300
- Asymmetric diurnal temperature change in the alpine region. Weber, R.O., et al. [1994,eng] 50-4790
- Chlorine monoxide in the antarctic spring vortex, pt.2. Shindell, D.T., et al. [1996,eng] 50-3018
- Climatology of high-latitude air pollution as illustrated by Fairbanks and Anchorage, Alaska. Bowling, S.A., [1986,eng] 50-4910
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- Diel variations of H₂O₂ in Greenland: a discussion of the cause and effect relationship. Bales, R.C., et al. [1995,eng] 50-634
- Dissolution kinetics, subglacial pathways and solute content of alpine meltwater. Collins, D.N., [1995,eng] 50-6045
- Dissolution kinetics, subglacial pathways and solute content of meltwater. Collins, D.N., [1995,eng] 50-3124
- DTR and cloudcover in the Nordic countries: observed trends and estimates for the future. Kaas, E., et al. [1994,eng] 50-3027
- Effect of snow hydrology on glacial runoff. Fountain, A.G., [1996,eng] 50-6084
- Grass photosynthesis variations under cold climatic conditions. Siutkina, A.V., et al. [1996,eng] 50-6754
- Greenland Sea ice variations recorded by spaceborne photography. Mitchelson-Jacob, E.G., [1996,eng] 50-4292
- Hydrochemical processes during snowmelt in a subalpine watershed, Colorado, USA. Peters, N.E., et al. [1995,eng] 50-2423
- Hydrochemical study of snow meltwater and snow cover. Suzuki, K., [1995,eng] 50-2404
- Hydrology of Breger Glacier, Spitsbergen. Kodama, Y., et al. [1995,eng] 50-3249
- Implications of glacial hydrology and flow for subglacial drainage dynamics. Raymond, C.F., et al. [1995,eng] 50-451
- Inter-diurnal variation of hydrometeorological elements of the Barents Sea. Girdiuk, G.V., [1992,rus] 50-1269
- Loss of ozone in the arctic vortex for the winter of 1989. Salawitch, R.J., et al. [1990,eng] 50-6027
- Measurements of nitrogen oxides in the Arctic. Honrath, R.E., et al. [1990,eng] 50-6028
- O₃ and NO₂ fluxes over snow measured by eddy correlation. Stocker, D.W., et al. [1995,eng] 50-2151
- Subglacial hydrology of a Swiss glacier. Hubbard, B.P., et al. [1995,eng] 50-1878
- Surface spectrometry of arctic seasonal atmospheric ozone variations. Pommerehne, J.P., et al. [1988,eng] 50-4636
- Transit time of meltwaters in alpine glaciers. Collins, D.N., [1995,eng] 50-2429
- Docks**
New, low-cost, ice- and wave-resistant port facility at Nome, Alaska. Swigart, W.S., et al. [1991,eng] 50-1732
- Palmer Station docking facility. Conceptual engineering study. ITT Antarctic Services, Inc., [1986,eng] 50-3928
- Research concerning ice conditions in fairways—Swedish activities. Lindmark, R., et al. [1984,eng] 50-3165
- Underground fuel tanks for Alaska. Freas, G.C., [1991,eng] 50-4226
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- Doped ice**
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- Ions and dipoles in water and ice, and their transfer through the interface. Von Hippel, A., et al. [1974,eng] 50-5739
- Isotopic exchange during glass transition of amorphous ice. Fisher, M., et al. [1995,eng] 50-150

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Drainage
 Baltic Ice Lake. Brunnberg, L., [1995,eng] 50-513
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 Current problems in the Aral Sea and prospects for their solutions. Tsytstsin, A.G., et al. [1991,rus] 50-731
 Evidence of Pleistocene drainage of a Scandinavian ice lake. Bergsten, H., et al. [1992,eng] 50-2555
 Formation mechanism of the marginal zone of the Warta ice sheet. Terpiłowski, S., [1993,pol] 50-3666
 Late glacial sedimentation and history of the Lake Nipigon Basin, Ontario. Lemoine, R.M., et al. [1995,eng] 50-4880
 Numerical simulation of Shirase Glacier. Pattyn, F., et al. [1995,eng] 50-2578
 Upward flushing of sea water through first year sea ice. Hudier, E.J.J., et al. [1995,eng] 50-4210
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Drains
 Evaluation of geocomposite edge drain on sand subgrade. Raymond, G.P., et al. [1996,eng] 50-5662
 Frost heave investigation of 1 275. Novak, E.C., Jr., [1982,eng] 50-2058
 Hydraulic conveying of snow and ice, (3): measurement of pipe flow. Shirakashi, M., et al. [1996,jpn] 50-4934
 Hydraulic conveying of snow and ice, part 2. Kitahara, T., [1995,jpn] 50-996
 Hydraulic transport of snow; (4): snow overload detector for snow/water mixing tank. Murayama, K., et al. [1996,jpn] 50-4926
 Maximum flow rate of floating snow in an open channel. Fukushima, Y., [1995,jpn] 50-3508
 Review of dynamical studies on hydraulic transportation of snow. Umemura, T., [1996,jpn] 50-6731
Dredging
 Comparative characteristics of polychaete taxocenes in Pevek Strait, Chum Bay, and Long Strait. Gagev, S.I.U., [1995,eng] 50-2534
 Dredging Eagle River Flats: remediation study in an active impact area. Walsh, M.R., [1996,eng] 50-5913
 Influence of ocean dredging on Barents Sea biota. Matishov, G.G., et al. [1995,eng] 50-3062
 Silt fence testing for Eagle River Flats dredging. Henry, K.S., et al. [1995,eng] 50-880
Drift
 Abstracts. International Symposium on Okhotsk Sea and Sea Ice, 11th, Mombetsu, Hokkaido, Japan, Feb. 25-28, 1996. [1996,eng] 50-5872
 Arctic Ocean ice and water transport during 1946-1988. Proshutinskii, A.I.U., et al. [1995,eng] 50-6313
 Arctic sea ice extent and thickness. Wadhams, P., [1995,eng] 50-5235
 Arctic wasteland: a perspective on arctic pollution. Davis, N., [1996,eng] 50-5838
 Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
 Atmosphere-surface interactions over polar oceans and heterogeneous surfaces. Vilhma, T., [1995,eng] 50-4035
 Automated approach to the sea-ice motion estimation. Mochizuma Flores, M., et al. [1994,eng] 50-5175
 Automatic ice motion retrieval from ERS-1 SAR images using the optical flow method. Sun, Y., [1996,eng] 50-5824
 Benthic foraminiferal assemblages and sea ice drift in the Arctic Ocean. Wollenburg, J., [1995,ger] 50-2443
 Charting movement of sea ice by satellite. Carsey, F., [1995,eng] 50-715
 Comparison of monthly sea ice simulation models. Wu, X.R., et al. [1996,eng] 50-5451
 Computer modeling of avalanche triggering by wind. Sivardière, F., et al. [1995,eng] 50-1064
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 Demonstration of operational sea-ice monitoring in the Baltic Sea with ERS-1 SAR. Herland, E.A., et al. [1995,eng] 50-1820
 Diffusive coefficients of arctic sea-ice motion estimate through SAR. Kakuta, S., et al. [1996,eng] 50-5893
 Distributed mass/discrete floe model for predicting pack ice motion. Matsuzawa, T., et al. [1996,jpn] 50-5886
 Distribution of seasonal net production of sea ice on the Arctic Ocean. Kakuta, S., et al. [1996,eng] 50-5894
 Drift of the tabular iceberg Filchner 1986A. Skvarca, P., et al. [1993,spa] 50-3552
 Drift tests of model floes in a circulation water channel. Rheem, C.K., et al. [1996,eng] 50-4432
 Eolian dust in deep sea sediments from arctic pack ice. Pirman, S., et al. [1989,eng] 50-5408

- Exploration of the Arctic Ocean by means of floating scientific stations. Männik, R., [1989,eng] 50-2930
 Extraction of deformation descriptors from spaceborne radar ice motion products. Li, S., et al. [1995,eng] 50-1812
 Global sea-ice—upper-ocean model: some preliminary results. Fichefet, T., et al. [1993,eng] 50-4821
 High resolution observations of Weddell Sea surface currents using ERS-1 SAR sea-ice motion vectors. Thomas, J.P., et al. [1995,eng] 50-1819
 Hot ice could contaminate fish. Edwards, R., [1996,eng] 50-4205
 Hydraulic resistance acting on ice floes. Kawai, K., et al. [1996,jpn] 50-5885
 Ice buoy tests of Barents Sea tidal motions. Pease, C.H., et al. [1995,eng] 50-2776
 Ice drift and oil spill hazard off Sakhalin. Kalinin, E.N., et al. [1996,eng] 50-5900
 Ice drift reconstructions from ice rafted coal fragments. Bischof, J., et al. [1990,eng] 50-926
 Ice dynamics in the south-western Laptev Sea as derived from ERS-1 SAR images. Kolatschek, J., et al. [1995,eng] 50-2063
 Ice studies on the northern Sakhalin offshore. Truskov, P.A., et al. [1995,eng] 50-6316
 Ice-ocean seasonal cycle and climate response in Hudson Bay. Soucier, F.J., et al. [1995,eng] 50-5931
 Iceberg observations and estimation of submarine ridges in the western Weddell Sea. Viehoff, T., et al. [1995,eng] 50-1818
 Iceberg-structure interaction probabilities for design. Fuglem, M., et al. [1996,eng] 50-5052
 Interaction of katabatic winds and the formation of blue-ice areas in East Antarctica. Van den Broeke, M.R., et al. [1995,eng] 50-459
 Interannual variability of sea-level pressure, sea-ice and runoff over the Arctic. Power, S.B., et al. [1991,eng] 50-5258
 Investigation of the general circulation of the Arctic Ocean using an isopycnal model. Holland, D.M., et al. [1996,eng] 50-3822
 Least average residual algorithm (LARA) for tracking the motion of arctic sea ice. Peddada, S.D., et al. [1996,eng] 50-5686
 Mathematical model of synoptic variation in drifting ice cover due to atmospheric factors. Zuev, A.N., [1992,rus] 50-1264
 Model of mesoscale motions of ice caused by convective flows. Goldshtein, R.V., et al. [1995,eng] 50-2948
 Monitoring and modelling the ice conditions offshore Greenland. Valeur, H.H., et al. [1995,eng] 50-2971
 New insights on large-scale oceanography in Fram Strait: the West Spitsbergen Current. Gascard, J.C., et al. [1995,eng] 50-1163
 North-East Water polynya: satellite observations summer 1992 and 1993. Gudmandsen, P., et al. [1995,eng] 50-1814
 Note on Ice Island WH-5. Nutt, D.C., et al. [1963,eng] 50-5789
 Numerical model simulation of a summer reversal of the Beaufort gyre. Preller, R.H., et al. [1989,eng] 50-4706
 Numerical simulation of river ice processes. Shen, H.T., et al. [1995,eng] 50-355
 Observations of sea ice and icebergs in the western Barents Sea during the winter of 1987. Løset, S., et al. [1995,eng] 50-213
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 On deflecting drifting icebergs. Rieß, I.R., et al. [1995,eng] 50-2945
 On the ice-ocean response to wind forcing. Omstedt, A., et al. [1996,eng] 50-6666
 Origin of the arctic driftwood—a dendrochronological study. Eggertsson, Ö., [1994,eng] 50-3851
 Origin of the driftwood on the coasts of Iceland; a dendrochronological study. Eggertsson, Ö., [1993,eng] 50-4771
 Performance assessment of the high resolution GPS ranging system. Deffenbaugh, M., et al. [1995,eng] 50-6309
 Physically based model of the form drag associated with sastrugi. Andreas, E.L., [1995,eng] 50-237
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 Pollution distribution and hydrographic variability of the Kara Sea. Pavlov, V.K., et al. [1995,eng] 50-4557
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 Precipitation and river runoff in an ice-ocean model of the Arctic. Weatherly, J.W., [1994,eng] 50-675
 Preconditioning the Greenland Sea for deep convection: ice formation and ice drift. Visbeck, M., et al. [1995,eng] 50-567
 Profiles of particle characteristics in blowing snow. Naaim, M., et al. [1995,eng] 50-1062
 Quantification of the reliability of iceberg management off eastern Canada. Goodridge, D.N., et al. [1995,eng] 50-2947
 Real time oil spill forecasting during an experimental oil spill in the arctic ice. Reed, M., et al. [1994,eng] 50-1685
 Regional and floe-floe deformation. Overland, J.E., et al. [1995,eng] 50-6286
 Relation between gouging force and the shape of ice floe. Terai, Y., et al. [1996,jpn] 50-5887
 Report of the International Ice Patrol in the North Atlantic, 1994 season. U.S. Coast Guard, [1994,eng] 50-52
 Satellite radar monitoring of ice drift in the Laptev Sea. Aleksandrov, V.I.U., et al. [1995,eng] 50-2062

- Satellite radar survey of Japan Sea ice processes. Martin, S., et al. [1995,eng] 50-1810
 Satellite studies of pollution in the Barents and Kara seas. Kögeler, J., et al. [1995,eng] 50-4136
 Sea ice field experiments in the Laptev Sea. 1976. Gorbunov, I.U., et al. [1995,eng] 50-2064
 Sea Ice Mechanics Initiative (SIMI) GPS position. O'Hara, S., et al. [1995,eng] 50-6285
 Sea ice rheology and sea ice modelling. Tremblay, B., [1993,eng] 50-5185
 Sea-ice velocity fields estimation on Ross Sea with NOAA-AVHRR. Mochizuma Flores, M., et al. [1995,eng] 50-983
 Seasonal variability of sea ice sizes and thickness on the northern Sakhalin shelf. Polomoshnov, A.M., et al. [1995,eng] 50-189
 Sediment transport by Laptev Sea ice. Reimnitz, E., et al. [1995,eng] 50-2072
 Simulation of the mixed-layer circulation in the Arctic Ocean. Holland, D.M., et al. [1996,eng] 50-2843
 Simulation of the seasonal arctic sea-ice cover with a dynamic thermodynamic sea-ice model. Holland, D.M., et al. [1993,eng] 50-5186
 Sliding rocks at the Racetrack, Death Valley: what makes them move. Reid, J.B., Jr., et al. [1995,eng] 50-1106
 Structure of internal stresses in the uncompacted ice cover. Sukhorukov, K.K., [1995,eng] 50-193
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 See [also]: Continental drift; Snowdrifts
Drift stations
 Arctic buoys send data around the world. [1992,eng] 50-6094
 Buoy for all arctic seasons: the Ice-Ocean Environmental Buoy. Honjo, S.S., [1996,eng] 50-6673
 Buoys in the Arctic study heat exchange. Honjo, S.S., et al. [1996,eng] 50-6334
 Circulation and transport of water along the western Weddell Sea margin. Muench, R.D., et al. [1995,eng] 50-568
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 Direct evidence for northward flow on the northwestern Bering Sea shelf. Overland, J.E., et al. [1996,eng] 50-5266
 Distribution and transport of atmospheric water vapour over the arctic basin. Serreze, M.C., et al. [1995,eng] 50-5217
 Disturbances in the thermohaline structure of the near-surface ocean layer in the wake of an iceberg. Abaza, V.P., et al. [1995,rus] 50-4202
 Fifteen years of arctic acoustics and ice camps. Von der Heydt, K., et al. [1996,eng] 50-6667
 Flow trajectories in the Bering Sea: evidence for chaos. Reed, R.K., et al. [1990,eng] 50-4730
 Glimpse beneath the ice. Plueddemann, A.J., [1996,eng] 50-6674
 Ice buoy tests of Barents Sea tidal motions. Pease, C.H., et al. [1995,eng] 50-2776
 Ice/snow thickness measuring system. Tank, C.L., et al. [1995,eng] 50-716
 International Arctic Buoy Program Meeting in Oslo. Dugan, J.P., [1992,eng] 50-3932
 Performance assessment of the high resolution GPS ranging system. Deffenbaugh, M., et al. [1995,eng] 50-6309
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 Sea Ice Mechanics Initiative (SIMI) GPS position. O'Hara, S., et al. [1995,eng] 50-6285
 Structure of internal stresses in the uncompacted ice cover. Sukhorukov, K.K., [1995,eng] 50-193
 Study of the surface circulation to the north of Bransfield Strait, Antarctica. de Souza, R.B., [1992,spa] 50-6663
 Vertical mixing processes in the western Weddell Sea. Robertson, R., et al. [1995,eng] 50-569
 Weddell-1 ice drift station in Antarctica. Mel'nikov, I.A., [1995,eng] 50-6689
Drill core analysis
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 Basic characteristics and paleoclimatic evolution of Qarhan Salt Lake. Chen, K.Z., et al. [1986,chi] 50-1984
 Biogenic composition of ice-rafted debris in Atlantic Ocean bottom sediment. van Krevelin, S.A., et al. [1996,eng] 50-5219
 Boreal ecosystem development in the northwestern Alaska Range since 11,000 yr B.P. Hu, F.S., et al. [1996,eng] 50-4581
 Buried loess in the Bohai Sea bottom and exposed along the coast. Liu, J.P., et al. [1995,chi] 50-4125
 Cenozoic Northern Hemisphere glaciations. Thiede, J., et al. [1995,eng] 50-5240
 Century of accumulation and temperature changes in Dronning Maud Land, Antarctica. Isaksson, E., et al. [1996,eng] 50-4352
 Chronology of late Wisconsin ice retreat from the western Ross Sea, Antarctica. Licht, K.J., et al. [1996,eng] 50-3814
 Clay minerals as sediment source indicators, Russian Arctic. Naidu, A.S., et al. [1995,eng] 50-1120
 Comment on paper by Baumann et al. Forsström, L., et al. [1996,eng] 50-6709

Drilling

- Core preservation to aid arctic oil reservoir evaluation. MacGregor, K.W., et al. [1991.eng] 50-1740
- Deep ice stirs debate on climate stability. Monastersky, R., [1993.eng] 50-4800
- Diatom distribution on Baffin Island, Canada. Wolfe, A.P., [1996.eng] 50-6514
- Drill cores from Qarhan Salt Lake. Yang, S.X., [1992.chi] 50-1488
- Evidence for Heinrich layers off Portugal (Tore Seamount: 39°N, 12°W). Lebreiro, S.M., et al. [1996.eng] 50-5220
- Evidence for Holocene seismic triggering of Arctic Ocean turbidites. Grantz, A., et al. [1996.eng] 50-6223
- Evidence of Holocene sea level rise from Nova Scotian bottom sediments. Scott, D.B., et al. [1995.eng] 50-4528
- Expanded record of Quaternary oceanographic change: Amerasian Arctic Ocean. Ishman, S.E., et al. [1996.eng] 50-3388
- Final stages in Laurentide ice sheet collapse, Hudson Strait. Andrews, J.T., et al. [1995.eng] 50-6556
- Foraminiferal evidence for Greenland environmental change. Jennings, A.E., et al. [1995.eng] 50-6079
- Foraminiferal evidence of Younger Dryas age cooling on the British Columbia shelf. Patterson, R.T., et al. [1995.eng] 50-5039
- Geochemistry of volcanic ashes from Greenland Basin. Haase, K.M., et al. [1996.eng] 50-5267
- Glacial cirque formation in northern Scandinavia. Richardson, C., et al. [1996.eng] 50-6246
- Greenland ice core records and rapid climate change. Dowdeswell, J.A., et al. [1995.eng] 50-5239
- Greenland's ice holds key to climate puzzle. Kiernan, V., [1996.eng] 50-6546
- Groundwater flow through Ontario glacial deposits. Gerber, R.E., et al. [1996.eng] 50-6750
- Holocene environmental changes in a Tibetan lake basin, pt.1. Fontes, J.C., et al. [1996.eng] 50-5090
- Holocene environmental changes in a Tibetan lake basin, pt.3. Fan, H., et al. [1996.eng] 50-5092
- Holocene environmental changes in a Tibetan lake basin, pt.4. Gasse, F., et al. [1996.eng] 50-5093
- Holocene sediments of the Russian east-arctic seas. IAshtin, D.S., et al. [1995.eng] 50-2104
- Ice drift reconstructions from ice rafted coal fragments. Bischof, J., et al. [1990.eng] 50-926
- Ice rafting history from the Spitsbergen ice cap over the last 200 kyr. Lloyd, J.M., et al. [1996.eng] 50-5224
- Ice-rafted tephra sedimentation of the North Atlantic. Lacasse, C., et al. [1996.eng] 50-4140
- Ice-sheet growth and high-latitudes sea-surface temperature. Berger, A., et al. [1996.eng] 50-5862
- Identification of ice-rafted sediments in Atlantic Ocean bottom cores. Auffret, G.A., et al. [1996.eng] 50-5218
- Identification of the Holocene-Pleistocene boundary in the Bering Sea by diatoms. Baldauf, J.G., [1982.eng] 50-3382
- Implications of frost heave for patterned ground, Tibet Plateau, China. Wang, B.L., et al. [1995.eng] 50-2808
- Isotope tracking of Pleistocene ice-rafted debris. Gwiazda, R.H., et al. [1996.eng] 50-4399
- Isotopic chronologies of Chukchi Sea continental shelf sediment fluxes. Baskaran, M., et al. [1995.eng] 50-1805
- Last deglaciation of the Franz Victoria Trough, northern Barents Sea. Lubinski, D.J., et al. [1996.eng] 50-6535
- Late Eocene-Oligocene dinoflagellate provincialism in the North Atlantic Ocean. Damassa, S.P., et al. [1994.eng] 50-898
- Late Quaternary flux of eolian dust to the pelagic ocean. Rea, D.K., et al. [1994.eng] 50-1242
- Late Quaternary paleoceanography of the mid- to outer continental shelf, East Greenland. Williams, K.M., et al. [1995.eng] 50-2810
- Late Younger Dryas to Holocene paleoenvironments of the southern Kattegat, Scandinavia. Conradsen, K., [1995.eng] 50-2861
- Linking physical property records of Quaternary sediments to Heinrich events. Chi, J., et al. [1996.eng] 50-5221
- Marine sedimentation rates as evidence of continental glaciation. Goldschmidt, P.M., [1995.eng] 50-1828
- Monitoring Termination II at high latitude: anomalies in the planktic foraminiferal record. Bauch, H.A., [1996.eng] 50-5223
- No evidence for extreme, long term warming in early Pliocene sediments of the Southern Ocean. Burckle, L.H., et al. [1996.eng] 50-6627
- North Atlantic paleoclimatic effects on primary productivity. Versteegh, G.J.M., et al. [1996.eng] 50-6620
- Norwegian Sea Pleistocene ice-core indicators of climatic change. Sejrup, H.P., et al. [1995.eng] 50-6564
- Organic carbon in late Quaternary Arctic Ocean sediments. Schubert, C.J., [1995.eng] 50-2454
- Organic compounds in a permafrost sediment core from Siberia. Matsumoto, G.I., et al. [1995.eng] 50-3844
- Paleoceanographic import of Norwegian Sea sediment stratigraphy. Rasmussen, T.L., et al. [1996.eng] 50-5222
- Paleoclimate from diatom distribution in a marine core. Zhan, Y.F., [1989.chi] 50-6780
- Paleoclimatic atmospheric chemical changes inferred from fossil leaf density. Beerling, D.J., et al. [1995.eng] 50-6563
- Paleoecological study of fire-induced lake water acidity variations. Korhola, A., et al. [1996.eng] 50-5020
- Paleoglaciation events on Baffin Island, Labrador Sea. Fillon, R.H., et al. [1981.eng] 50-3621
- Paleomagnetic constraints on sedimentation rates in the eastern Arctic Ocean. Schneider, D.A., et al. [1996.eng] 50-6707

- Petroleum-producing sequences in the Phanerozoic deposits of the arctic islands. Daniushcheva, A.I., [1996.eng] 50-5704
- Plankton blooms as evidence of Holocene climatic fluctuations. Thorsen, T.A., et al. [1995.eng] 50-2860
- Pleistocene lacustrine record of a Chinese lake. Rhodes, T.E., et al. [1996.eng] 50-5095
- Pleistocene stratigraphy in the Lappajärvi meteorite crater in Ostrobothnia, Finland. Salonen, V.P., et al. [1992.eng] 50-2556
- Plio-Pleistocene megacycles: record of climate and tectonics. Kukla, G., et al. [1996.eng] 50-5099
- Pliocene record in the central Arctic Ocean. Clark, D.L., [1996.eng] 50-6626
- Pliocene sand ridges at the Barents Sea margin. Knutsen, S.M., et al. [1996.eng] 50-5314
- Pollen assemblages from a borehole in Dabsan Lake. Du, N.Q., et al. [1986.chi] 50-1986
- Possible influence of glacial eustasy on antarctic shelf stratigraphy. Bartek, L.R., et al. [1996.eng] 50-4823
- Quaternary sedimentary processes and budgets in Orphan Basin, southwestern Labrador Sea. Hiscott, R.N., et al. [1996.eng] 50-4579
- Radiocarbon date list VIII: Canada, Greenland, Iceland, and Antarctica. Manley, W.F., ed. et al. [1996.eng] 50-5927
- Radiocarbon geochemistry of modern and ancient arctic lake systems, Baffin Island, Canada. Abbott, M.B., et al. [1996.eng] 50-5190
- Radiolaria biostratigraphy of core S₁₁ in the area northwest of Antarctic Peninsula. Chen, W.B., [1989.chi] 50-6779
- Rapid climatic shifts during isotope stages 2-4 in the polar North Atlantic. Dokken, T.M., et al. [1996.eng] 50-6105
- Sediment flux along glaciated continental margins. Andrews, J.T., et al. [1994.eng] 50-1241
- Statistical analysis of lithology of Arctic Ocean sediments. Darby, D.A., et al. [1996.eng] 50-5025
- Taylor Ice Dome study 1993-1994: an ice core to bedrock. Grootes, P.M., et al. [1994.eng] 50-1898
- U.S.G.S. Geotechnical Investigation—Beaufort Sea, Alaska. 1979, Vol.1. Bruggers, D.E., et al. [1979.eng] 50-3313
- Warming at 18,000 yr B.P. in the tropical Andes. Helmens, K.F., et al. [1996.eng] 50-5189
- Weddell Sea glaciomarine sedimentation variations. Crawford, K., et al. [1996.eng] 50-6261
- What really ended the last ice age? Scientists say the oceans did it. [1992.eng] 50-720
- See [also]: Coring; Ice cores
- Drilling**
- Applicability of Soviet arctic mining technology to northern America. Skudrzyk, F.J., [1991.eng] 50-1743
- Assembly for studying physical processes during drilling. Antipin, I.N., et al. [1992.rus] 50-796
- Development of a new shallow ice core drill. Takahashi, A., [1996.jpn] 50-3503
- Development of JARE deep ice coring system (III). Takahashi, A., et al. [1996.jpn] 50-6347
- Device for preventing the icing of supporting structures. Barkhanov, V.N., et al. [1992.rus] 50-1929
- Dome-Fuji deep drilling facility. JARE 35. Saito, T., [1995.jpn] 50-3497
- Drilling and sampling of permafrost for site investigation purposes: a review. Riddle, C.H., et al. [1991.eng] 50-1747
- Drilling smaller surface holes results in substantial cost savings. Krawietz, T.E., et al. [1991.eng] 50-1739
- Drilling waste disposal in the Arctic using below-grade freeze-back. Maund, T.E., et al. [1991.eng] 50-1697
- Environmental research project for Yamburg gas fields. Chlenov, A.V., [1991.eng] 50-1766
- Fishing with 1.5- and 1.75-in. coiled tubing at western Prudhoe Bay, Alaska. Mullin, M.A., et al. [1991.eng] 50-1699
- Hot water drilling in antarctic ice for neutrino detectors. Koci, B.R., et al. [1996.eng] 50-6467
- Oil-soluble resin-diverting agents in Prudhoe Bay acidizing operations. Strassner, J.E., et al. [1991.eng] 50-1698
- Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991, [1991.eng] 50-1696
- Technological effects on tundra ecosystems and the recultivation of disturbed territory. Sumina, O.I., [1992.rus] 50-3406
- See [also]: Offshore drilling; Percussion drilling; Rock drilling; Rotary drilling
- Drilling fluids**
- Air temperature effects on cold weather drilling mud dewatering. Wojanowicz, A.K., et al. [1991.eng] 50-1708
- Alternatives for closure of solid oily waste sites on the North Slope of Alaska. Kellems, B.L., et al. [1991.eng] 50-1709
- Analysis of return drilling fluids in Prudhoe Bay oil wells. Fambrough, J.D., et al. [1991.eng] 50-1714
- Development of an Alaskan North Slope soils database for drill cuttings reclamation. Schumacher, J.P., et al. [1991.eng] 50-1722
- Disposal of drilling wastes in permafrost, Prudhoe Bay, Alaska. Hansen, P., et al. [1996.eng] 50-6134
- Drilling wastes management for Alaska's North Slope. Fristoe, B.R., [1991.eng] 50-1723
- Groundwater flow through Ontario glacial deposits. Gerber, R.E., et al. [1996.eng] 50-6750
- Lost circulation material usage in coiled tubing remedial cementing at Prudhoe Bay. Krause, R.E., [1991.eng] 50-1706
- Mathematical model of the freezing-thawing of saline frozen soil. Vasil'ev, V.I., et al. [1996.eng] 50-5268

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- Salted drilling mud helps prevent casing collapse in permafrost. Kutasov, I.M., [1995.eng] 50-142
- Thixotropic, crosslinking polymer/borate/salt plug: development and application. Powell, J.W., et al. [1991.eng] 50-1707
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- Drops (liquids)**
- Characteristics of the crystallization of water in unsaturated soils. Golubev, V.N., [1996.rus] 50-6810
- New look at the melting layer. Drummond, F.J., et al. [1996.eng] 50-4145
- Testing of radome material and special coatings for North Warning System. Crory, F.E., [1988.eng] 50-761
- Turbine blade icing model. Finstad, K.J., et al. [1992.eng] 50-3628
- X-ray analysis of ion distribution in frozen salt droplets. Orlovich, D.A., et al. [1995.eng] 50-6590
- X-ray analysis of ion distribution in frozen salt droplets. Orlovich, D.A., et al. [1995.eng] 50-6590
- See [also]: Cloud droplets; Raindrops
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- Core preservation to aid arctic oil reservoir evaluation. MacGregor, K.W., et al. [1991.eng] 50-1740
- Generating artificial fog. Walter, C., [1995.fre] 50-5072
- HIPLEX-1: experimental design and response variables. Smith, P.L., et al. [1984.eng] 50-4918
- Drying**
- See [also]: Freeze drying
- Ducts**
- Development of pneumatic conveying technologies for snow. Kobayashi, T., [1995.jpn] 50-612
- Electro-impulse deicing of the NASA Lewis altitude wind tunnel turning vanes. Ross, R., [1988.eng] 50-4100
- Ice in the intake causes close call. [1990.eng] 50-3572
- Power loss in inclement weather. Volk, L., [1992.eng] 50-3796
- Snow blowers. Kamimura, H., et al. [1992.jpn] 50-3135
- Snow removal by a blower in a straight pipe. Kobayashi, T., et al. [1995.jpn] 50-611
- Dust**
- Aerial component of the soil-formation substrate in the southern part of the Maritime Territory. Elpatievskii, P.V., et al. [1995.eng] 50-3876
- Air quality at a zinc/lead mine in arctic Alaska. MacCay, C., et al. [1996.eng] 50-6174
- Dust in glaciers around Taklimakan Desert. Han, J.K., et al. [1995.eng] 50-615
- Dust in Greenland and antarctic ice cores of the LGM. Yung, Y.L., et al. [1996.eng] 50-2727
- Eolian dust in deep sea sediments from arctic pack ice. Pfirman, S., et al. [1989.eng] 50-5408
- Geobotanical maps as an aid in assessing surface impacts. Everett, K.R., et al. [1994.eng] 50-304
- Lidar measurements of global dust transport from the Taklimakan Desert. Itabe, T., et al. [1991.jpn] 50-1430
- Mass dependence of energy loss in collisions of icy spheres: an experimental study. Dilley, J., et al. [1996.eng] 50-5196
- Mineral dust record in a high altitude alpine glacier (Colle Gnifetti, Swiss Alps). Wagenbach, D., et al. [1989.eng] 50-5411
- Modeling dry deposition of dust along the Dalton Highway. Lamprecht, R., et al. [1996.eng] 50-4853
- No iridium anomaly after the 1908 Tunguska impact: evidence from a Greenland ice core. Rasmussen, K.L., et al. [1995.eng] 50-2741
- Polar ice stratigraphy from laser-light scattering: scattering from ice. Ram, M., et al. [1995.eng] 50-3098
- Road-related disturbances in an arctic watershed. Leadley, P.W., et al. [1996.eng] 50-4856
- Saharan dust recorded in Swiss alpine snow cover. Schwikowski, M., et al. [1995.eng] 50-778
- Two-year record of eolian sedimentation in the Wind River Range, Wyoming, U.S.A. Dahms, D.E., et al. [1996.eng] 50-5496
- Weathering of aeolian dusts in alpine snows. Delmas, V., et al. [1996.eng] 50-4588
- See [also]: Cosmic dust
- Dusting**
- Determination of snowmelt factor in the Himalayan region. Singh, P., et al. [1996.eng] 50-5705
- Dusting river ice with leaf mulch to aid in ice deterioration. Haehnel, R.B., et al. [1996.eng] 50-6072
- Ice jam flooding and mitigation: Lower Platte River basin. Nebraska. White, K.D., et al. [1996.eng] 50-4251
- Preliminary study of melting snow and river ice by dusting using leaf mulch. Haehnel, R.B., et al. [1995.eng] 50-3120
- Dynamic loads**
- Comparison of load restriction timings determined using FHWA guidelines and frost tubes. Yesiller, N., et al. [1996.eng] 50-4752
- Computational modelling of brittle ice fragmentation. Tuhkuri, J., [1996.eng] 50-5942
- Cyclic direct simple shear testing of a Beaufort Sea clay. McCarron, W.O., et al. [1995.eng] 50-579
- Dynamic impact between a viscoelastic ice floe and a rigid structure. Morland, L.W., [1996.eng] 50-3824
- Effects of localized deformation on melting processes in ice. Wilson, C.J.L., et al. [1996.eng] 50-5470

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- Elasto-delayed-elastic simulation of short-term deflection of fresh-water ice covers. Sinha, N.K., et al. [1996.eng] 50-5474
- Field experiments on snow avalanche mechanics. Schweizer, J., et al. [1995.eng] 50-1056
- Ice tank tests on pressure ridge formation. Lensu, M., et al. [1995.eng] 50-4582
- Investigation of the dynamic loading of ice. Chizhov, V.E., [1996.eng] 50-5269
- Method to calculate pack ice driving forces. Evgin, E., et al. [1995.eng] 50-1283
- Northumberland Strait bridge: analysis techniques and results. Ghali, A., et al. [1996.eng] 50-5046
- Observation of slip transmission through a grain boundary in ice. Jia, K., et al. [1996.eng] 50-5297
- On the generation of internal waves beneath sea ice by a moving load. Duffy, D.G., [1996.eng] 50-3825
- On the modelling of ice cover fracture. Slepian, L.I., [1990.eng] 50-94
- Planar forcing of floating ice sheets. Zhao, Z.G., et al. [1996.eng] 50-1108
- Preliminary results from fatigue tests on in situ sea ice beams. Haskell, T.G., et al. [1996.eng] 50-5469
- Shear moduli and damping in frozen and unfrozen clay by resonant column tests. Al-Hunaidi, M.O., et al. [1996.eng] 50-5817
- Triaxial experiments on iceberg and glacier ice. Gagnon, R.E., et al. [1995.eng] 50-1874
- Uniaxial constant compressive stress creep tests on sea ice. Sinha, N.K., et al. [1995.eng] 50-3000
- Use of layered theory in the design and evaluation of pavement systems. Hicks, R.G., et al. [1982.eng] 50-5914
- Dynamic properties**
- Cooperativity and hydrogen bond network lifetime in liquid water. Lamanna, R., et al. [1995.eng] 50-5714
- Coupled vertical and horizontal galloping—discussion. Havard, D.G., et al. [1993.eng] 50-3253
- Dynamic deformation characteristics of undisturbed riverbed gravels. Yasuda, N., et al. [1996.eng] 50-4861
- Effects of total water content on dynamic properties of frozen soils. Fukuda, M., et al. [1991.eng] 50-1748
- GPS recording of Hells Gate ice shelf tidal responses. Bondesan, A., et al. [1994.eng] 50-3765
- Proceedings. Workshop on Future Directions in Snow and Ice Research. Gallatin Gateway, MT, Oct. 3-4, 1995, [1995.eng] 50-4623
- Shear moduli and damping in frozen and unfrozen clay by resonant column tests. Al-Hunaidi, M.O., et al. [1996.eng] 50-5817
- Viscosity of fluidized snow. Nishimura, K., [1996.eng] 50-5465
- Dynamometers**
- Instrument systems for studying the structure of frozen ground during its deformation. Erbiagin, I.F., [1996.rus] 50-6836
- Earth crust**
- Beardmore Glacier glacial successions, Transantarctic Mountains. Webb, P.N., et al. [1996.eng] 50-6630
- Cenozoic uplift of Fennoscandia inferred from a study of the mid-Norwegian margin. Stuevold, L.M., et al. [1996.eng] 50-5324
- Computer simulations of Alaskan neotectonics. Bird, P., [1996.eng] 50-6215
- Cretaceous to recent extension in the Bering Strait region. Alaska. Dumitru, T.A., et al. [1996.eng] 50-3714
- Crustal structure of the Arctic Ocean. Gramberg, I.S., et al. [1992.eng] 50-3439
- Dating of Norwegian Pleistocene rock sediments. Balashov, I.U.A., et al. [1995.eng] 50-5534
- Geodynamic polygon in Hornsund Fjord, Spitsbergen. Pachuta, A., et al. [1989.pol] 50-2933
- Geological mapping of Svalbard tectonic fault zone. McCann, A.J., et al. [1996.eng] 50-4232
- Geological transect of the Brooks Range, Alaska. Kelley, J.S., et al. [1995.eng] 50-5198
- Geology and tectonic evolution of Germaniavalleya, Spitsbergen. Piepjohn, K., et al. [1994.ger] 50-1577
- Geotectonic evolution of the Qinghai-Xizang Plateau. Chang, C.F., [1992.chi] 50-1498
- Glacial isostasy and lateral mantle viscosity. Sabadini, R., et al. [1989.eng] 50-4710
- Glacial isostatic uplift of Tibet as a consequence of a former ice sheet. Kuhn, M., [1995.eng] 50-6064
- Glacial rebound of the British Isles—III: constraints on mantle viscosity. Lambeck, K., et al. [1996.eng] 50-4737
- Global sea level rise and glacial isostatic adjustment. Peltier, W.R., [1996.eng] 50-4310
- Intracontinental subduction zones in the Tibetan Plateau and their magmatism. Deng, W.M., [1992.chi] 50-1499
- Isotope geochemistry and crustal evolution of northern Xinjiang. Hu, A.Q., et al. [1993.chi] 50-2353
- Norwegian Pleistocene crustal metamorphism. Ohta, Y., et al. [1995.eng] 50-5535
- Ny Friesland Orogen, Spitsbergen. Harland, W.B., et al. [1992.eng] 50-5155
- Off-rift and rift-zone palaeostresses in northwest Iceland. Gudmundsson, A., et al. [1996.eng] 50-6207
- Paleoclimatic changes on the northern side of the central Himalaya. Fort, M., [1996.eng] 50-5096
- Paleomagnetism of Icelandic lava piles. Kristjansson, L., et al. [1995.eng] 50-4948

- Problems in geodynamic studies of Antarctica. Guterch, A., [1989.pol] 50-2874
- Rock massif response to subzero temperature fluctuations. Chislov, A.I., [1991.eng] 50-1745
- Seismic and gravity surveys of Scoresby Sound. Mandler, H., [1995.ger] 50-1547
- Tectonic significance of alpine eclogites. Spalla, M.I., et al. [1996.eng] 50-5572
- Tertiary paleostress regimes in arctic islands. Lepvrier, C., et al. [1996.eng] 50-6208
- Thermal rejuvenation of the Yermak Plateau. Okay, N., et al. [1994.eng] 50-4249
- Earth dams**
- Dam construction in northern environment: a numerical study. Shen, M., et al. [1996.eng] 50-6168
- Earth dams under confining pressure subject to freeze thaw. Ota, H., et al. [1995.jpn] 50-6735
- Permafrost formation and aggradation in a 23-m high homogeneous dyke: a case study. Konrad, J.M., et al. [1996.eng] 50-6165
- Earth fills**
- Church building foundation retrofit on Saint Lawrence I. Crowther, G.S., [1996.eng] 50-6130
- Dam construction in northern environment: a numerical study. Shen, M., et al. [1996.eng] 50-6168
- Experimental studies on the interaction of surface foundations on fills with heaving soils. Elgin, B.B., et al. [1993.rus] 50-130
- Frozen soil barrier technology. Oak Ridge National Laboratory. Hazardous Waste Remedial Actions Program (HAZWARP), [1995.eng] 50-2793
- Long-term pile load testing system performance in saline and ice-rich permafrost. Biggar, K.W., et al. [1996.eng] 50-6427
- On the estimation of frost loads. Rajani, B., et al. [1996.eng] 50-6751
- Performance of landfill cover systems in cold climates. Lee, J.Y., [1994.eng] 50-371
- Permafrost formation and aggradation in a 23-m high homogeneous dyke: a case study. Konrad, J.M., et al. [1996.eng] 50-6165
- Predicting the level of frost penetration into landfill covers. Moo-Young, H.K., Jr., et al. [1996.eng] 50-6169
- Preventing frost damage to irrigation canals by geotextile. Chen, L., et al. [1996.eng] 50-6167
- Significance of factors in a foundation-fill-heaving base. Babello, V.A., et al. [1993.rus] 50-131
- Thermal insulating geosynthetics as a soil protective cover substitute. Deutsch, W.L., Jr., [1995.eng] 50-2866
- See [also]: Hydraulic fill; Rock fills
- Earth's orbit**
- Glaciation onset related to Canadian tundra. Gallimore, R.G., et al. [1996.eng] 50-5212
- Earthquakes**
- Bank of arctic seismological data. Avetisov, G.P., et al. [1995.eng] 50-6528
- Cyclic triaxial tests of the Bootlegger Cove Formation, Anchorage, Alaska. Lade, P.V., et al. [1988.eng] 50-405
- Developing methods for forecasting seismic effects under cryolithozone conditions. Dzhuiruk, V.I., et al. [1996.rus] 50-6834
- Double wedging model for the Qinghai-Xizang Plateau. Zheng, J.D., [1992.chi] 50-1505
- Earthquake induced landslide in Anchorage, 1964. Updike, R.G., et al. [1988.eng] 50-401
- Earthquake response offshore structures surrounded by ice floes (Part 11). Okamoto, N., et al. [1996.jpn] 50-5882
- Earthquake shock absorbers for bridges in cold regions. Sato, M., et al. [1993.jpn] 50-2839
- Evidence for Holocene seismic triggering of Arctic Ocean turbidites. Grantz, A., et al. [1996.eng] 50-6223
- Forecasting seismic effects under cryolithozone conditions. Dzhuiruk, V.I., [1995.rus] 50-2506
- Forty years of disaster mitigation in Xinjiang. Zhu, L.R., ed. et al. [1993.chi] 50-4166
- Liquefaction resistance of silty sand based on in situ frozen samples. Yoshimi, Y., et al. [1996.eng] 50-5080
- Subsurface seismotectonographic mapping at Anchorage. Schmoll, H.R., et al. [1986.eng] 50-483
- See [also]: Seismology
- Earthwork**
- Caline rehabilitation and restoration. Bolstad, R., [1971.eng] 50-3245
- Hydromechanization of earthwork under the conditions in the Far East and Siberia. Melnikov, I.T., [1995.rus] 50-3077
- Undrained shear strength for liquefaction flow failure analysis. Konrad, J.M., et al. [1995.eng] 50-1824
- Unsurfaced road maintenance management. Eaton, R.E., et al. [1995.eng] 50-952
- See [also]: Excavation; Trenching; Tunneling (excavation)
- East Siberian Sea**
- Hydrobiological observations in the Chaunskaya Bay of the East Siberian Sea. Gaev, S.I.U., [1991.rus] 50-1314
- Echo sounding**
- Seismic refraction soundings 1993 on rock glacier permafrost in north-western Svalbard. Wagner, S., [1995.eng] 50-851
- Ecology**
- Abundance and production of bacteria and viruses in the Bering and Chukchi Seas. Steward, G.F., et al. [1996.eng] 50-4158
- Analysis of the ecological status in the Ladoga Lake basin. Rumiantsev, V.A., et al. [1992.rus] 50-385

Ecology

- Analyzing frozen soil stability in Siberian oil and gas production regions. Tumel', N.V., et al. [1994.rus] 50-262
- Analyzing the state of Ural tributaries of the Ob' River according to zoobenthos indicators. Sharapova, T.A., et al. [1994.rus] 50-283
- Analyzing the transformation of organic matter in anthropogenically altered soil. Popov, A.I., et al. [1994.rus] 50-276
- Antifreeze glycopeptides and peptides in fish from the Weddell and Lazarev seas. Wöhrmann, A.P.A., [1996.eng] 50-3959
- Arctic research at San Diego State University. [1996.eng] 50-5573
- Assessing effects on cryogenic terrain. Zokova, L.I., et al. [1996.rus] 50-6846
- At the center of scientists' attention—problems of biology in northern seas. Matishov, G.G., [1995.rus] 50-4304
- Autumnal sea ice biota in polar seas. Hoshiai, T., et al. [1996.eng] 50-6031
- Basic problems in the study of biota and its role in the life of Arctic ecosystems. Kaliakin, V.N., et al. [1991.rus] 50-1297
- Beetle microhabitat distribution in a glacier ablation zone. Gerben, B.A., [1995.eng] 50-2812
- Biota of the western Siberian Subarctic as an indicator of the ecological-geochemical situation in the region. Savchenko, N.V., [1994.rus] 50-298
- Bottom biocones of the Laptev Sea and adjacent areas. Sirenko, B.I., et al. [1995.eng] 50-2088
- Climate change and biological oceanography of the Arctic Ocean. Gradinger, R., [1995.eng] 50-5233
- Contemporary status of bottom fauna in the Chernaya Bay (Novaya Zemlya Archipelago). Matishov, G.G., et al. [1996.eng] 50-4147
- Copepod adaptability to temperature and salinity in a salt lake. Wang, Z.P., et al. [1989.chi] 50-6777
- Cryogenic state of soil in the cryolithozone (Yakutia). Gavril'ev, P.P., et al. [1996.rus] 50-6844
- Determining the geoecological stability of the cryolithozone. Osadchaya, G.G., et al. [1996.rus] 50-6851
- Development of the North and the problem of recultivation. International Conference on the Development of the North and the Problem of Recultivation, 2nd, Syktyvkar, Apr. 25-28, 1994, [1994.rus] 50-251
- Differences in carbon accumulation of two cut-over peatlands in Finland. Roderfeld, H., et al. [1994.eng] 50-3226
- Distribution of sea-ice algae in Hudson Bay. Monti, D., et al. [1996.eng] 50-5211
- Dynamic model of the pelagic ecosystem of the Kara Sea. Lebedeva, L.P., et al. [1995.eng] 50-3540
- Ecological aspects of the development of flat-polygonal bogs of Yamal. Kanev, V.V., et al. [1996.eng] 50-6580
- Ecological conditions in the Barents Sea (institutes and literature catalogue). Doronin, N., [1992.eng] 50-20
- Ecological investigations in the Bering Sea. Sapozhnikov, V.V., [1994.eng] 50-869
- Ecological monitoring of territories with oil and gas reserves in the cryolithozone. Antonov-Druzhinin, V.P., et al. [1990.rus] 50-1605
- Ecological problems in the cryogenic-hydrogeological conditions in northwestern Siberia. Petrova, R.G., et al. [1996.rus] 50-6847
- Ecological protection in mining of minerals. Tsygankov, A.V., et al. [1992.rus] 50-818
- Ecological role of a subaqueous cryolithozone. Zhigarev, L.A., [1991.rus] 50-1302
- Ecological-hygienic aspects of the development of the Bovanenok gas condensate field. Kvashina, S.I., [1994.rus] 50-301
- Ecologization of technological processes in oil and gas construction in arctic regions. Shishov, V.N., et al. [1990.rus] 50-1606
- Ecology of fjords and coastal waters. Skjoldal, H.R., ed. et al. [1995.eng] 50-4128
- Ecology of ice nucleation-active bacteria. Hirano, S.S., et al. [1995.eng] 50-3273
- Ecosystem of the sea ice in Antarctica. Rakusa-Suszczewski, S., [1989.pol] 50-2875
- Effect of salinity on oxygen metabolism of copepods in a salt lake. Wang, Z.P., [1989.chi] 50-6778
- Effects of pack ice on Weddell Sea plankton distribution. Kaufmann, R.S., et al. [1995.eng] 50-4160
- Effects of vehicle tracks on arctic tundra. Kevan, P.G., et al. [1995.eng] 50-962
- Engineering-ecological basis for the oil and gas development of the North. Mazur, I.I., [1990.rus] 50-1600
- Engineering-ecology safety during the operation of oil and gas facilities. Konstantinov, I.P., [1996.rus] 50-6845
- Environment and research in Greenland and Jameson Land. Di Cesare, F., et al. [1994.ita] 50-2819
- Environmental protection measures for the West Siberian Arctic and Subarctic. Chistov, S.V., [1991.rus] 50-1298
- Environmental safety of construction of gas and oil facilities in arctic regions. Mazur, I.I., et al. [1991.eng] 50-1764
- Estimation of the autochthonous detritus flux through plankton communities of the Kara Sea. Lebedeva, L.P., et al. [1995.eng] 50-3541
- Evolution of the ecosystem and biogeography of seas in the European Arctic. Pavlov, D.S., ed. [1994.rus] 50-3088
- Experiment in compiling a review map of anthropogenic degradation of the high-latitude areas of Russia. Serebrianniy, L.R., et al. [1992.eng] 50-3434
- Foraminiferal bottom sediment assemblages from West Antarctica. Chang, S.K., et al. [1995.eng] 50-3346

Economic analysis

Economic development

- Formaminera in glaciomarine sediments of arctic fjords. Korsun, S.A., et al. [1995,eng] 50-939
- Formation of the cryo-ecological segment in Central Yakutia. Fedorov, A.N., [1996,rus] 50-6843
- Freezing driven upwelling in antarctic sea ice biological systems. Ackley, S.F., et al. [1996,eng] 50-6032
- Fresh water in Svalbard fjord ecosystems. Węślawski, J.M., et al. [1995,eng] 50-4137
- Geo-ecological problems of the oil and gas complex in Yamal. Mel'nikov, E.S., et al. [1990,rus] 50-1599
- Geological specifics in the natural dynamics of the subarctic cryolithozone. Oberman, N.G., [1996,rus] 50-6850
- Growth temperature preferences of fungal strains from Victoria Land, Antarctica. Zucconi, L., et al. [1996,eng] 50-4009
- Heat and moisture supply of natural biogeocenoses in the Northern. Subpolar and Polar Urals. Belonenko, G.V., et al. [1994,rus] 50-269
- Heavy metal concentrations in peat profiles from the high Arctic. Headley, A.D., [1996,eng] 50-3721
- Himalaya, its ecology and biogeography: a review. Mani, M.S., [1994,eng] 50-5416
- Hot ice could contaminate fish. Edwards, R., [1996,eng] 50-4205
- Hydrobiological observations in the Chauskaya Bay of the East Siberian Sea. Gaev, S.I.U., [1991,rus] 50-1314
- Hydrologic role of soils and ecological methods of regulating water resources. Voronkov, N.A., [1995,eng] 50-3879
- Ice-nucleation properties of various bacterial species. Kiprianova, E.A., et al. [1995,eng] 50-3673
- Impact of iceberg scouring on polar benthic habitats. Gunt, J., et al. [1996,eng] 50-6567
- Influence of a structure of snow pack on biosystems in regions of severe climate. Golubev, V.N., et al. [1996,eng] 50-6437
- Insects in deep freeze. Barnes-Svarney, P., [1992,eng] 50-3035
- Lichens and rocks: a review. Easton, R.M., [1994,eng] 50-1252
- Life forms in antarctic sea ice. Dahms, H.U., [1992,ger] 50-646
- Living Arctic. Uspenskii, S.M., [1987,rus] 50-90
- Logging effects on an aquatic ecosystem on Vancouver Island. Hetherington, E.D., [1996,eng] 50-4070
- Low summer temperatures: a potential mortality factor for high arctic soil microarthropods? Coulson, S.J., et al. [1995,eng] 50-1178
- Mammoth extinction: two continents and Wrangel Island. Martin, P.S., et al. [1995,eng] 50-650
- Marine ecology of the Laguna San Rafael (southern Chile): ice scour and opportunism. Davenport, J., [1995,eng] 50-1105
- Merging U.S., Canadian arctic areas considered. [1994,eng] 50-942
- Mesomorphic soil formation in the cryogenic taiga semihumid sector of central Siberia. Ershov, I.U.I., [1995,eng] 50-2146
- Metabolism of deep-sea sponges in the Greenland-Norwegian Sea. Witte, U., et al. [1996,eng] 50-6613
- Microbiological activity in thermoglacial karst springs, South Spitsbergen. Lauritzen, S.E., et al. [1995,eng] 50-1403
- Microfaunal response to fertilization of an arctic tundra stream. Rublee, P.A., et al. [1995,eng] 50-870
- Microorganisms sustaining large animals in seasonally ice-covered seas. Legendre, L., [1996,eng] 50-5907
- Midge emergence during thaw cycles of a subalpine lake. Sherk, T., et al. [1996,eng] 50-4504
- Mollusc population dynamics on the antarctic shelf ocean bottom. Brey, T., et al. [1993,eng] 50-3395
- Neoglobodina pachyderma* distribution in the sea ice of Lützow-Holm Bay. Igarschi, A., et al. [1996,eng] 50-6036
- Northern wilderness areas: ecology, sustainability, values. International Conference on Northern Wilderness Areas, Arctic Centre, University of Lapland, Rovaniemi, Finland, Dec. 7-9, 1994, [1995,eng] 50-3167
- Oceanographic conditions of Murman coastal biocenoses. Boltsov, V.D., et al. [1995,eng] 50-4138
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge, Alaska. Department of Environmental Conservation. Division of Environmental Quality, [1990,eng] 50-3913
- Oil pollution in Arctic waters. Futsaeter, G., et al. [1991,eng] 50-3421
- On the summer distribution of mesozooplankton in the Nansen Basin, Arctic Ocean. Mumm, N., [1991,ger] 50-3399
- Organochlorines in the arctic ecosystem. Jensen, J., [1991,eng] 50-3422
- Palmer ecological research program. Smith, R.C., et al. [1995,eng] 50-5944
- Parametrizing environmental assessments for oil and gas facility construction. Semenov, L.P., [1991,eng] 50-1765
- Pelagic bryozoan from Antarctica. Peck, L.S., et al. [1995,eng] 50-1827
- Penguin population dynamics in relation to sea ice distribution. Trathan, P.N., et al. [1996,eng] 50-5735
- Plan for a regional ecological atlas of the cryolithozone (in the example of Yakutia). Alekseev, V.R., et al. [1996,rus] 50-6842
- Planktonic DNA diversity in the Canadian high Arctic. Van Raay, T.J., et al. [1995,eng] 50-4092
- Plant-vertebrate herbivore interface in arctic ecosystems. Jefferies, R.L., et al. [1995,eng] 50-3905
- Practical solution to the problems of biological recultivation in the Far North. Archegova, I.B., et al. [1994,rus] 50-254
- Problems in environmental protection; vol.4. Pavlov, G.F., ed. [1991,rus] 50-437
- Problems in the ecology of polar regions, vol.2: collected scientific papers. Bogoslovskaja, L.S., ed. [1991,rus] 50-1288
- Proceedings of the NIPR Symposium on Polar Biology, No.9. Hirasawa, T., ed. NIPR Symposium on Polar Biology, 17th. Tokyo, Dec. 7-9, 1994, [1996,eng] 50-6029
- Protecting tundra ecosystems in oil extraction regions. Solov'ev, V.A., et al. [1994,rus] 50-255
- Radiocarbon dating evidence for mammoths on Wrangel Island, Arctic Ocean, until 2000 BC. Vartanian, S.L., et al. [1995,eng] 50-649
- Radioecological hazard of ship nuclear reactors sunken in the Arctic. Sivintsev, I.U.V., et al. [1996,eng] 50-5676
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- Revision of structural classifications of some arctic and alpine herb species. Chmielewski, J.G., [1995,eng] 50-873
- River ice control and fish habitat restoration: mutual interests and benefits. Lever, J.H., et al. [1995,eng] 50-3121
- Rotifer ecology in high-altitude alpine sites. Jersabek, C.D., [1995,eng] 50-4163
- Rotifers from the Canadian High Arctic (Devon Island, Northwest Territories). De Smet, W.H., et al. [1995,eng] 50-4162
- Satellite tracking of high-arctic northern fulmars. Falk, K., et al. [1995,eng] 50-718
- SCAR report No.10, Dec. 1994. Scientific Committee on Antarctic Research, [1994,eng] 50-4041
- Sea ice variation at the South Orkney Is. Murphy, E.J., et al. [1995,eng] 50-972
- Selected aspects of the physical oceanography and particle fluxes in fjords of northern Norway. Wassmann, P., et al. [1996,eng] 50-5571
- Shoreline ecology program following the Exxon Valdez oil spill, pt.1. Page, D.S., et al. [1995,eng] 50-3921
- Shoreline ecology program following the Exxon Valdez oil spill, pt.2. Boehm, P.D., et al. [1995,eng] 50-3924
- Shoreline ecology program following the Exxon Valdez oil spill, pt.3. Gilfillan, E.S., et al. [1995,eng] 50-3925
- Shoreline impacts in the Gulf of Alaska region following the Exxon Valdez oil spill. Gilfillan, E.S., et al. [1995,eng] 50-3926
- Snow algae microbiology related to ultraviolet radiation effects. Thomas, W.H., et al. [1995,eng] 50-2814
- Svalbard—field excursion in arctic marine biology, June 5-14, 1995. Weissenberger, J., ed. et al. [1995,eng] 50-1554
- Symposium on Environmental Toxicology and Risk Assessment, 3rd, Atlanta, GA, Apr. 26-28, 1993. Exxon Valdez oil spill: fate and effects in Alaska waters. [1995,eng] 50-3914
- Taxonomy and ecology of the ciliate fauna of the Weddell Sea. Peitz, W., et al. [1995,eng] 50-2582
- Technogenic naled formation around the city of Anadyr'. Kotov, A.N., [1996,rus] 50-6854
- Temperate rainforest lakes of Chile and British Columbia. Soto, D., et al. [1996,eng] 50-4066
- Thermal environments of arctic soil organisms during winter. Coulson, S.J., et al. [1995,eng] 50-2811
- Tropical toxins ruin arctic catch. Pearce, F., [1995,eng] 50-968
- Typification of USSR surface territory for the aerospace monitoring system. Apostolov, I.U.S., et al. [1992,rus] 50-3405
- Use of geosynthetics to prevent waterfowl white phosphorus poisoning. Henry, K.S., et al. [1995,eng] 50-2865
- Using satellite photography in geocological studies in the cryolithozone. Gavrilov, A.V., et al. [1996,rus] 50-6857
- Variability in nutrient concentrations around Elephant Island, Antarctica, during 1991-1993. Silva S., N., et al. [1995,eng] 50-941
- Vertical particle flux on the shelf off northern Spitsbergen, Norway. Andreassen, I., et al. [1996,eng] 50-6566
- Zooplankton communities of lakes in Glacier Bay National Park. Olson, O.G., et al. [1995,eng] 50-3751
- See [also]: Ecosystems; Paleocology; Plant ecology
- Economic analysis**
- Analysis of energy balance and technical progress in the non-ferrous metallurgy industry. Panin, A.P., et al. [1992,rus] 50-713
- Biogas as an alternative energy savings. Elokhin, V.R., [1992,rus] 50-705
- Can the Northern Sea Route be profitable. Schwarz, J., [1996,eng] 50-4490
- Crop-hail damage in the Midwest corn belt. Hillaker, H.J., Jr., et al. [1985,eng] 50-4592
- Economic and game-theoretical analysis of CO₂ reduction agreements. Tahvoenen, O., [1994,eng] 50-3235
- Effects of climate on building construction. Ruch'ev, A.P., et al. [1995,rus] 50-723
- Hearing on arctic coastal plain leasing to petroleum interests. U.S. Congress. House. Committee on Resources, [1995,eng] 50-3455
- Last Russian scientist in Spitsbergen. [1996,eng] 50-3491
- Multilaterals, horizontal wells could access remote Russian oil reserves. Hazen, T., [1996,eng] 50-6575
- Northern Sea Route: is it a viable marine insurance risk? Gold, E., [1996,eng] 50-4443
- Northern Sea Route: its development and evolving state of operations in the 1990s. Mulherin, N.D., [1996,eng] 50-4960
- Problems in the energy supply of the Murmansk region. Stepanov, I.R., ed. [1992,rus] 50-703
- Project of gas liquefaction at the Yamal Peninsula: the problem and solution. Gritsenko, A.I., et al. [1996,eng] 50-4488
- Prospects for the industrial use of wind power on the Kola Peninsula. Minin, V.A., et al. [1992,rus] 50-710
- Recultivating the ecosystems in the Russian Arctic. Zarubin, S.I., et al. [1994,rus] 50-289
- Regionalization of territories according to degree of risk to cryogenic processes. Kuznetsova, I.L., et al. [1996,rus] 50-6396
- Seaborne oil and gas transportation from Northern Russia. Backlund, A., [1996,eng] 50-4487
- Siberia and the metro. Safronov, E.A., [1995,rus] 50-3087
- Technological-ecological problems in navigation. Stepanov, A.L., [1991,rus] 50-1318
- Urban hailstorms: a view from Alberta. Charlton, R.B., et al. [1995,eng] 50-3960
- See [also]: Cost analysis
- Economic development**
- \$1.5 billion development plan set for BP's Alaskan Beaufort Sea fields. [1996,eng] 50-5290
- 1995 annual report on Alaska's mineral resources. Schneider, J.L., ed. [1995,eng] 50-5664
- Anchorage, Alaska's wetlands management plan. Salvesen, D.A., [1995,eng] 50-1683
- Arctic and Europe. Gerhardsen, T.S., [1996,eng] 50-4423
- Arctic and Russia. Granberg, A.G., [1996,eng] 50-4422
- Arctic conferences fail to be frozen. [1986,eng] 50-5652
- Arctic operators seek warmth in a cold climate. Cottrill, A., [1986,eng] 50-5653
- Ardalin field flows despite weather, terrain. Britton, M.W., et al. [1995,eng] 50-4396
- Beaufort Sea Planning Area Oil and Gas Lease Sale 144. Final environmental impact statement. U.S. Department of the Interior. Minerals Management Service. Alaska Outer Continental Shelf Region, [1996,eng] 50-4552
- Challenges for the development of hydrocarbon fields in the Barents Sea. Gudmestad, O.T., et al. [1995,eng] 50-209
- Commercial aspects of the Northern Sea Route. Ivanov, I.U.M., [1996,eng] 50-4444
- Concrete mixture proportioning techniques for remote Alaskan locations. Nichols, M.R., et al. [1995,eng] 50-2671
- Current policy of the Russian Federation regarding development and management of the Northern Sea Route System. Arikainen, A.I., et al. [1996,eng] 50-4450
- Development of energy sources for the Qinghai-Xizang Plateau. Tong, W., [1992,chi] 50-1480
- Diesel heat recovery plant related to local heating and electricity production. Niemi, S., [1984,eng] 50-3162
- Economic development strategy and regionalization of Xizang. Ni, Z.B., [1992,chi] 50-1477
- Economic geography of the Inner Mongolia Autonomous Region. Gang, G.E., ed. et al. [1992,chi] 50-2171
- Energy consumption in the Murmansk region and the effectiveness of its energy industry. Barannik, B.G., et al. [1992,rus] 50-706
- Engineering-ecological basis for the oil and gas development of the North. Mazur, I.I., [1990,rus] 50-1600
- Environment and resources of the Qinghai-Xizang Plateau. Liu, T.S., [1992,chi] 50-1476
- Environmental impact of offshore oil exploration in the Arctic. Moebech, A., et al. [1995,eng] 50-2964
- Environmental protection measures for the West Siberian Arctic and Subarctic. Chistov, S.V., [1991,rus] 50-1298
- Environmental security and the NSR: a pan-Arctic challenge? Østrem, W., [1996,eng] 50-4451
- Exhibition of snow removal equipment, Tokyo, 1988. [1988,jpn] 50-2288
- Exploration and development of oil and gas field on the shelf of Sakhalin. Bogdanovich, S.M., et al. [1995,eng] 50-168
- Forest resources in Xinjiang. Xinjiang Resources Development Comprehensive Survey Team of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang ziyuan kaifa zonghe kaochadi), [1989,chi] 50-5823
- Forest resources of Qinghai. Sun, X.R., ed. et al. [1988,chi] 50-5822
- From Anik to MSAT: bringing modern communications to the North. Pool, A., [1996,eng] 50-2446
- Future of oil and gas in northern Alaska. Bird, K.J., et al. [1995,eng] 50-5642
- Giving full play to the mineral resources, to promote the economic development in Xizang. Cao, Y.G., et al. [1992,chi] 50-1485
- How the Arctic's top field will be developed. [1987,eng] 50-4287
- Huge Barents Sea gas field holds promise. [1991,eng] 50-4377
- Ice-structure interaction research and arctic development. Kennedy, K.P., et al. [1995,eng] 50-6304
- Icejet: hydro power for Europe. De Jong, D.J., [1995,eng] 50-2969
- Illustrated Hokkaido forestry—towards well-developed forests. [1990,jpn] 50-2170
- Kennecott's Diavik project: diamond exploration enters the final stage. [1996,eng] 50-2447
- Lakes and hydropower in Xizang. Wang, Y.L., [1992,chi] 50-1481
- Living on ice: problems of urban development in Canada's north. French, H.M., [1994,eng] 50-6099
- Logistics in remote areas in Greenland. Andersson, T.I.H., et al. [1995,eng] 50-2967
- Natural resources of Inner Mongolia. Eer, D., ed. [1987,chi] 50-2290
- Nature of hydroelectric power exploitation. Vischer, D., [1996,ger] 50-4175
- New challenges for the pipeline engineer in the Russian Arctic. Brown, R.J., [1995,eng] 50-212
- Northern Gateway Oil Terminal Study: phase I. Vikhamar, T.K., et al. [1995,eng] 50-211

Economics

- Northern Sea Route and the regional development in the North. Heifetz, S.I., [1996,eng] 50-4441
- Norwegian petroleum resources with focus on challenges and opportunities in the Barents Sea. Aamodt, F.R., [1995,eng] 50-174
- Oil and gas fields of Qinghai and Xizang. Gu, S.S., ed., [1990,chi] 50-2177
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge, Alaska. Department of Environmental Conservation. Division of Environmental Quality, [1990,eng] 50-3913
- On strategy of exploiting resources and their performance in Qinghai Province. Chen, Z.J., [1992,chi] 50-1478
- Painting fuel storage facilities with local labor in Nunavut. Prinsloo, H.F., [1996,eng] 50-5948
- Perceptions and relations between Russia and its northeast Asian neighbors. Simonsen, H., [1996,eng] 50-4453
- Petroleum exploration opportunities on the U.S.-Russia Chukchi Sea continental shelf. Warren, T., et al., [1995,eng] 50-210
- Petroleum resources of the Mackenzie Delta and Beaufort Sea. Dixon, J., et al., [1994,fr] 50-3319
- Polar hydrocarbon technologies: future developments. Yates, J., et al., [1995,eng] 50-5446
- Polar vision or tunnel vision: The making of Canadian Arctic waters policy. Huebert, R., [1995,eng] 50-4503
- Possibilities of regional development by snow utilization. Taneda, M., [1988,jpn] 50-2280
- Potentials for utilization of hydroelectric resources in Greenland. Taagholt, J., [1995,eng] 50-2963
- Private companies subcontract to CRREL. Chalmers, P., [1995,eng] 50-1099
- Private enterprise employment of Greenlanders at Thule Air Base. Sørensen, P.E., [1995,eng] 50-2970
- Problems in the development of the Arctic as a complex regional system. Arikainen, A.I., [1990,rus] 50-1666
- Problems in the rational use of coastal zones of arctic seas. Sovershaev, V.A., et al., [1991,rus] 50-1299
- Proceedings of the first symposium on the Qinghai-Xizang Plateau. China Society of Qinghai-Xizang Plateau Research, Symposium, 1st, Mar. 1990, [1992,chi] 50-1475
- Proceedings. Volume IV. Arctic/polar technology. International Conference on Offshore Mechanics and Arctic Engineering (OMAE), 14th, Copenhagen, Denmark, June 18-22, 1995, [1995,eng] 50-2935
- Proceedings. Management of the Boreal Forest, Anchorage, AK, Dec. 3-4, 1987, [1988,eng] 50-68
- Project III.7.2. Potential of the NSR as a regular cargo service. Ivanov, I.U.M., et al., [1996,eng] 50-4446
- Promotion of industry in sparsely populated areas of heavy snow in Ishikawa Prefecture. Gomi, T., ed., et al., [1984,jpn] 50-2035
- Research on new Alaskan mining technology. Chamberlain, P.G., [1991,eng] 50-1715
- Review of select exploration and development activity in state nearshore areas. Hansen, J., [1995,eng] 50-6305
- Role of industries and environmental effects on corrosion control in the North. Dutta, P.K., [1996,eng] 50-3760
- Russia opens far east offshore. [1993,eng] 50-5440
- Saline-lake resources on the Qinghai-Xizang Plateau and their developed prospect. Zheng, M.P., [1992,chi] 50-1486
- Shell to break Chukchi ice. [1989,eng] 50-5644
- Shell to the fore as Chukchi opens up. [1988,eng] 50-4968
- Siberian company starts up modular refinery. [1996,eng] 50-5575
- Significance of social trends and snow cover. Oishi, T., [1988,jpn] 50-2050
- Significance of the NSR for regional development in arctic areas of Russia. Granberg, A.G., [1996,eng] 50-4442
- Snow and industry. Itakura, K., [1988,jpn] 50-2051
- Snow and living conditions. Yoshino, M., ed., [1988,jpn] 50-2043
- Spitsbergen—Resources and economic development in a High Arctic island group. Thannheiser, D., [1996,ger] 50-6574
- Study on integrated system design for regional development in snowy regions. [1989,jpn] 50-2039
- Studying seascas in the cryolithozone. Sovershaev, V.A., [1996,rus] 50-6408
- Submarine cryolithozone of Russian Arctic off-shore: problems of hydrocarbon recovery. Kulpin, L.G., et al., [1995,eng] 50-2961
- Surprising success for Arctic lease sale. [1988,eng] 50-4967
- Technology assessment on systems for conquering and exploiting snow. [1987,jpn] 50-2289
- Telecommunications in Greenland: also for offshore activities. Malmberg, P., [1995,eng] 50-2968
- Tracks of forest roads in the privately owned forests of Hokkaido. [1990,jpn] 50-2294
- Transportation of Alaska North Slope natural gas to market. Lannom, D.A., et al., [1996,eng] 50-6126
- Trends of the times related to snow. Yagasaki, T., [1988,jpn] 50-2049
- Utilization and protection of natural resources in the Hengduan Mountains region. Li, M.S., [1992,chi] 50-1482
- West Siberian oil and the northern sea route: current situation and future potential. Kriukov, V., et al., [1995,eng] 50-6104
- See [also]: Land development; Landscape development; Natural resources

Economics

- Environment and research in Greenland and Jameson Land. Di Cesare, F., et al., [1994,ita] 50-2819

- New technology of diamond drilling of exploratory wells in Yakutia. Skriabin, R.M., et al., [1992,rus] 50-795
- Polar research: U.S. policy and interests. Mielke, J.E., [1996,eng] 50-5600
- Science of the Siberian region; a discussion in the Presidium of the Russian Academy of Sciences. Mavrina, T.V., ed., [1995,rus] 50-4200
- Ecosystems**
- 10,000-years dynamics of limnic ecosystems and climatic change. Salonen, V.-P., et al., [1994,eng] 50-3182
- Abundance and production of bacteria and viruses in the Bering and Chukchi Seas. Steward, G.F., et al., [1996,eng] 50-4158
- Aerosol deposition to an alpine tundra ecosystem. Sievering, H., et al., [1996,eng] 50-5964
- Alaskan tundra sedge response to fertilizer treatment. Shaver, G.R., et al., [1995,eng] 50-1469
- Algae in terrestrial phytocoenoses of the east European Arctic. Patova, E., [1995,eng] 50-3175
- Alpine ecosystem snow depths derived from tree damage. Woolridge, G.L., et al., [1996,eng] 50-4629
- Alpine plant diversity: a global survey and functional interpretations. Körner, C., [1995,eng] 50-3892
- Alpine vascular flora of the Tushar Mountains, Utah. Taye, A.C., [1995,eng] 50-1541
- Analyzing the composition of ecosystems of land in the Noril'sk industrial region. Igamberdiev, V.M., et al., [1994,rus] 50-277
- Antarctic planktonic biomass seasonal variations. Skerratt, J.H., et al., [1995,eng] 50-1118
- Anthropogenic factors in the dynamics of shelf and the Barents Sea coastal ecosystems. Matishov, G.G., et al., [1993,eng] 50-2190
- Anthropogenic impacts on biodiversity in the Arctic. Young, O.R., et al., [1995,eng] 50-3899
- Arctic algal communities in the region of the Nuvuk Islands, northeastern Hudson Bay, Canada. Keats, D.W., et al., [1989,eng] 50-3692
- Arctic and alpine biodiversity: patterns, causes and ecosystem consequences. [1995,eng] 50-3888
- Arctic Flux Study: a regional view of trace gas release. Weller, G., et al., [1995,eng] 50-3809
- Arctic kelp community in the Alaskan Beaufort Sea. Dunton, K.H., et al., [1982,eng] 50-3681
- Arctic marine mammals as integrators and indicators of mercury in the Arctic. Wagemann, R., et al., [1995,eng] 50-881
- Arctic soil microbial biomass response to fertilizer additions. Jonasson, S., et al., [1996,eng] 50-6230
- Arctic systems: natural environments, human actions, nonlinear processes. International Arctic Science Committee, [1995,eng] 50-5302
- Arctic terrestrial ecosystems and environmental change. Calaghan, T.V., et al., [1995,eng] 50-5232
- Arctic tundra biodiversity: a temporal perspective from Late Quaternary pollen records. Brubaker, L.B., et al., [1995,eng] 50-3894
- Arctic vegetation types as response predictors to global change. Chapin, F.S., III, et al., [1996,eng] 50-6557
- Are arctic soft-sediment macrobenthic communities impoverished. Kendall, M.A., [1996,eng] 50-6720
- Bacterial activity in the Schirmacher Ponds in summer. Ramiah, N., [1995,eng] 50-1281
- Bacterial ecosystem dynamics in a high mountain lake. Alfrieder, A., et al., [1996,eng] 50-5681
- Bacterial population in mineral soils from Antarctica and its relations to organic nutrients. Böller, M., [1989,pol] 50-2925
- Barents Sea biomass reaction to gas condensate pollution. Gorbacheva, E.A., et al., [1996,eng] 50-6581
- Basic problems in the study of biota and its role in the life of Arctic ecosystems. Kaliakin, V.N., et al., [1991,rus] 50-1297
- Benthic studies in the Laptev Sea. Schmid, M.K., et al., [1995,eng] 50-2087
- Biogenic organic compounds in ponds on the McMurdo Ice Shelf. Schall, C., et al., [1996,eng] 50-3703
- Biogeochemistry of heavy metals in the Arctic. Dobrovolskii, V.V., [1995,rus] 50-3971
- Biological processes on arctic continental shelves: ice-ocean-biotic interactions. Grebmeier, J.M., et al., [1995,eng] 50-1166
- Biomass diversity in arctic and alpine ecosystems. Pastor, J., [1995,eng] 50-3904
- Brittle star fauna biomass in the northeastern Barents Sea. Piepenburg, D., et al., [1996,eng] 50-6719
- Causes and consequences of plant functional diversity in arctic ecosystems. Chapin, F.S., III, et al., [1995,eng] 50-3902
- Causes of arctic plant diversity: origin and evolution. Murray, D.F., [1995,eng] 50-3890
- Characterizing multi-temporal alpine snowmelt patterns for ecological inferences. Allen, T.R., et al., [1993,eng] 50-1447
- Climate change and biological oceanography of the Arctic Ocean. Gradinger, R., [1995,eng] 50-5233
- Climate change and the alpine flora: some perspectives. Theurillat, J.P., [1995,eng] 50-1015
- Climate change in the recent evolution of a pro-glacial lake. Webster, J., et al., [1996,eng] 50-3704
- CO₂ fluxes in peatlands under varying temperature and moisture conditions. Silvola, J., et al., [1994,eng] 50-3218
- Comparative characteristics of polychaete taxocenoses in Pevek Strait, Chayn Bay, and Long Strait. Gagaev, S.I.U., [1995,eng] 50-2534

- Comparative study of bottom sediment pollution in Lianyungang and Vladivostok harbors. Tkalin, A.V., [1995,eng] 50-5063
- Comparative water relations of tropical alpine plants. Meinzer, F.C., et al., [1994,eng] 50-3047
- Computer database on anthropogenic arctic vegetation. Sumina, O.I., [1994,rus] 50-261
- Concepts and criteria of reestablishing natural systems. Tiurn, V.N., [1994,rus] 50-297
- Contaminants in the arctic marine environment: priorities for protection. Macdonald, R.W., et al., [1996,eng] 50-5574
- Creation of high-productive seeding meadows on disturbed arctic lands. Tikhmenev, E.A., [1991,eng] 50-1744
- Decline of fauna in small streams in the Swedish mountain range. Olofsson, E., et al., [1995,eng] 50-4078
- Development of environmental database for the Russian Arctic. Kaitala, S., [1995,eng] 50-3178
- Diatom distribution on Baffin Island, Canada. Wolfe, A.P., [1996,eng] 50-6514
- Differences in carbon accumulation of two cut-over peatlands in Finland. Roderfeld, H., et al., [1994,eng] 50-3226
- Distribution and biomass of Greenland shelf epibenthic megafauna. Piepenburg, D., et al., [1996,eng] 50-5045
- Distribution of cesium-137 in Bering and Chukchi Sea marine sediments. Cooper, L.W., et al., [1995,eng] 50-5062
- Distribution of pesticide residues in arctic coastal ecosystems. Bright, D.A., et al., [1995,eng] 50-4747
- Disturbance and recovery of arctic Alaskan vegetation. Walker, D.A., [1996,eng] 50-4841
- Dynamic model of the pelagic ecosystem of the Kara Sea. Lebedeva, L.P., et al., [1995,eng] 50-3540
- Dynamics of dissolved and particulate carbon in an arctic stream. Oswood, M.W., et al., [1996,eng] 50-4851
- Dynamics of the ecosystem of the Barents Sea. Matishov, G.G., et al., [1991,rus] 50-1295
- East Beringia during Late Wisconsin time: a review of the biotic evidence. Matthews, J.V., Jr., [1982,eng] 50-3374
- Ecological classification of Michigan wetland ecosystems. Zogg, G.P., et al., [1996,eng] 50-3297
- Ecological conditions in the Barents Sea (institutes and literature catalogue). Doronin, N., [1992,eng] 50-20
- Ecological investigations in the Bering Sea. Sapozhnikov, V.V., [1994,eng] 50-869
- Ecology and physiology of psychrophilic bacteria from antarctic saline lakes and sea-ice. Nichols, D.S., et al., [1995,eng] 50-4086
- Ecology of fjords and coastal waters. Skjoldal, H.R., ed., et al., [1995,eng] 50-4128
- Ecosystem consequences of microbial diversity and community structure. Schimel, J.P., [1995,eng] 50-3903
- Ecosystem dynamics of the Bering and Chukchi Seas. Tsyban', A.V., [1995,eng] 50-3608
- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: introduction. Reynolds, J.F., et al., [1996,eng] 50-4839
- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: progress and prospects. Tenhunen, J.D., et al., [1996,eng] 50-4857
- Effect of air pollution on soil invertebrates in the Lapland biosphere reserve. Giliazova, E.V., [1994,rus] 50-286
- Effect of forest drainage on the carbon balance of peatland ecosystems. Laine, J., et al., [1994,eng] 50-3224
- Effect of oil pollution on the ecosystems of Kola Bay. Sakulina, M.V., et al., [1991,rus] 50-1320
- Effect of the laying of gas pipelines on the geosystem of the cryolithozone in Western Siberia. Moskalenko, N.G., [1996,rus] 50-6849
- Effects of acidification on plankton biomass in high mountain lakes. Engle, D., et al., [1995,eng] 50-2149
- Effects of enhanced UV-B radiation on the growth of dwarf shrubs in a subarctic heathland. Johanson, U., et al., [1995,eng] 50-3618
- Effects of fire in the taiga on the environment. Lotspeich, F.B., et al., [1971,eng] 50-3244
- Effects of mammals on ecosystem change at the Pleistocene-Holocene boundary. Zimov, S.A., et al., [1995,eng] 50-3895
- Effects of nutrient availability on arctic sedge growth. Gebauer, R.L.E., et al., [1995,eng] 50-2540
- Emissions of methane and nitrogen oxides from peatland ecosystems. Martikainen, P.J., et al., [1994,eng] 50-3220
- Endurance of arctic ecosystems in changes in the environment. Golikov, A.N., et al., [1991,rus] 50-1294
- Environment and ecosystems of Novaya Zemlya: the archipelago and shelf. Matishov, G.G., ed., [1995,rus] 50-5145
- Environmental aspects of the Northern Sea Route. Hansson, R., et al., [1996,eng] 50-4439
- Environmental impact assessment (EIA) in INSROP. Thomassen, J., et al., [1996,eng] 50-4438
- Enzymatic and morphological variations in arctic grasses. Aiken, S.G., et al., [1995,eng] 50-1068
- Estimation of the autochthonous detritus flux through plankton communities of the Kara Sea. Lebedeva, L.P., et al., [1995,eng] 50-3541
- Evolution of the ecosystem and biogeography of seas in the European Arctic. Pavlov, D.S., ed., [1994,rus] 50-3088
- Expedition to the Murmansk Marine Biology Institute to Franz Josef Land and Novaya Zemlya, 1991. Matishov, G.G., [1992,rus] 50-730
- Explore Antarctica. Crossley, L., [1995,eng] 50-230
- Fall phytoplankton biomass: P-I relationships and primary production in the Weddell Sea. Dower, K.M., et al., [1996,eng] 50-4008

Ecuador

Education

- Finnish research programme on climate change: second progress report. Kanninen, M., ed. et al. [1994,eng] 50-3179
- Fluxes of nutrients between benthic and planktonic communities in the coastal zone of the Barents Sea. Kuznetsov, L.L., et al. [1995,eng] 50-3606
- Fresh water in Svalbard fjord ecosystems. Węśławski, J.M., et al. [1995,eng] 50-4137
- Freshwater impact on Hudson bay ecosystems under sea ice, pt.2. Legendre, L., et al. [1996,eng] 50-4020
- Freshwater impact on Hudson bay ecosystems under sea ice, pt.3. Fortier, L., et al. [1996,eng] 50-4021
- Fungal hyphal length in litter of *Dryas octopetala* in high-arctic polar semi-desert, Svalbard. Robinson, C.H., et al. [1996,eng] 50-4010
- Genetic diversity of an arctic/alpine herb species. Bauert, M.R., [1996,eng] 50-5493
- Geographic information system for SILMU and the modelling of soil carbon flows. Alm, J., et al. [1994,eng] 50-3230
- Growing perennial grasses on dredging grounds in Southern Yakutia. Petrova, A.N., [1994,rus] 50-288
- Growth dynamics and population development in an alpine grassland under elevated CO₂. Schappi, B., [1996,eng] 50-5779
- Growth response of mosses to simulated subarctic environmental change. Potter, J.A., et al. [1995,eng] 50-3860
- Himalaya, its ecology and biogeography: a review. Mani, M.S., [1994,eng] 50-5416
- Hydrobiological observations in the Chauskaya Bay of the East Siberian Sea. Gaev, S.I.U., [1991,rus] 50-1314
- Ice-covered temperate lake limnology. Agbeti, M.D., et al. [1995,eng] 50-739
- Impact crater lakes on Mars. Newsom, H.E., et al. [1996,eng] 50-5777
- Impact of atmospheric changes on alpine vegetation: the eco-physiological perspective. Körner, Ch., [1995,eng] 50-1014
- Impact of climate change on carbon cycle in freshwater ecosystems. Kankaala, P., et al. [1994,eng] 50-3201
- Impacts of climate change on mountain ecosystems: future research and monitoring needs. Guisan, A., et al. [1995,eng] 50-1020
- Implications for changes in arctic plant biodiversity from environmental manipulation experiments. Callaghan, T.V., et al. [1995,eng] 50-3897
- Individual-based model of alpine plant distributions. Humphries, H.C., et al. [1996,eng] 50-3151
- Influence of a structure of snow pack on biosystems in regions of severe climate. Golubev, V.N., et al. [1996,eng] 50-6437
- Influence of pocket gophers on the status of nutrients in alpine soils. Litaor, M.I., et al. [1996,eng] 50-4951
- Information booklet on the Arctic and Antarctic Research Institute (Russia). Mustafin, N.V., [1993,eng] 50-19
- Integrated ecosystem research in northern Alaska, 1947-1994. Shaver, G.R., [1996,eng] 50-4840
- Inter-annual variability in marine coastal antarctic bacterioplankton. Delille, D., et al. [1996,eng] 50-4006
- International Conference on Global Change and Arctic Terrestrial Ecosystems—recommendations. Arctic Global Change Conference, Oppdal, Norway, Aug. 21-26, 1993, [1993,eng] 50-3331
- Introduction to Fennoscandian mountains. Holten, J.L., [1995,eng] 50-1004
- Introduction to tropical alpine vegetation. Smith, A.P., [1994,eng] 50-3044
- Isotope analysis of Arctic Ocean ice algae primary productivity. Hobson, K.A., et al. [1995,eng] 50-3359
- Land-water interactions: the influence of terrestrial diversity on aquatic ecosystems. Kling, G.W., [1995,eng] 50-3906
- Landscape function and disturbance in arctic tundra. Reynolds, J.F., ed. et al. [1996,eng] 50-4838
- Logging effects on an aquatic ecosystem on Vancouver Island. Hetherington, E.D., [1996,eng] 50-4070
- Marine ecology of the Laguna San Rafael (southern Chile): ice scour and opportunism. Davenport, J., [1995,eng] 50-1105
- Mathematical model of pollution vectors in the arctic basin. Krapivin, V.F., et al. [1996,eng] 50-3412
- Mathematical models of ecosystem carbon cycle feedback effects. Ryzhova, I.M., [1996,eng] 50-5087
- Meadow ecology in the polar Urals, Russia. Gorchakovskii, P.L., et al. [1996,eng] 50-5482
- Megabenthic communities in the waters around Svalbard. Piepenburg, D., et al. [1996,eng] 50-6722
- Merging U.S., Canadian arctic areas considered. [1994,eng] 50-942
- Mesoplankton in the east Kara Sea and the Ob and Yenisey River estuaries. Vinogradov, M.E., et al. [1995,eng] 50-3539
- Mesoplankton of the west Kara Sea and the Baidara Bay. Vinogradov, M.E., et al. [1995,eng] 50-3538
- Metabolism of deep-sea sponges in the Greenland-Norwegian Sea. Witte, U., et al. [1996,eng] 50-6613
- Microbial activity of tundra and taiga soils at sub-zero temperatures. Clein, J.S., et al. [1995,eng] 50-2025
- Microbial life in permafrost: a historical review. Gilichinskii, D.A., et al. [1996,eng] 50-6701
- Microfaunal response to fertilization of an arctic tundra stream. Rublee, P.A., et al. [1995,eng] 50-870
- Micro-meteorological effects on alpine vegetation reproduction. Bergman, P., et al. [1996,eng] 50-5494
- Microorganisms sustaining large animals in seasonally ice-covered seas. Legendre, L., [1996,eng] 50-5907
- Microplankton bloom dynamics in McMurdo Sound, Antarctica. Stoecker, D.K., et al. [1993,eng] 50-3394
- Modeling decomposition in arctic ecosystems. Moorhead, D.L., et al. [1996,eng] 50-4854
- Modeling the effects of climate change on lakes. Frisk, T., et al. [1994,eng] 50-3198
- Modeling the effects of climate change, air pollutants and land use on freshwater ecosystems: summary. Kauppi, L., et al. [1994,eng] 50-3192
- Modeling the effects of climatic change on phosphorus transport from a drainage basin. Bileletdin, A., et al. [1994,eng] 50-3199
- Myth of the classic hydrosere model of bog succession. Klinger, L.F., [1996,eng] 50-4331
- Natural vegetation complexes of the Northern Dvina River floodplain. Vekhov, N.V., [1995,eng] 50-4699
- Nitrogen fixation in arctic vegetation and soils from Svalbard. Norway. Solheim, B., et al. [1996,eng] 50-4007
- Nitrogen soil dynamics in an arctic lowland ecosystem. Chapin, D.M., [1996,eng] 50-4340
- Niwot Ridge snow fence experiment: biogeochemical response to changes in the seasonal snowpack. Brooks, P.D., et al. [1995,eng] 50-2421
- Northern wilderness areas: ecology, sustainability, values. International Conference on Northern Wilderness Areas, Arctic Centre, University of Lapland, Rovaniemi, Finland, Dec. 7-9, 1994, [1995,eng] 50-3167
- Occurrence of an algal bloom under arctic pack ice. Gradinger, R., [1996,eng] 50-4159
- Occurrence of sub-ice algal aggregations off northeast Greenland. Gutt, J., [1995,eng] 50-163
- Oceanographic conditions of Murman coastal biocenoses. Boissov, V.D., et al. [1995,eng] 50-4138
- Oil pollution in Arctic waters. Futsaeter, G., et al. [1991,eng] 50-3421
- Organochlorines in the arctic ecosystem. Jensen, J., [1991,eng] 50-3422
- Particulate organic matter in Terra Nova Bay in summer 1990. Fabiano, M., et al. [1996,eng] 50-3702
- Patch and landscape models of arctic tundra: potentials and limitations. Reynolds, J.F., et al. [1996,eng] 50-4852
- Patterns and causes of arctic plant community diversity. Walker, M.D., [1995,eng] 50-3889
- Patterns and causes of genetic diversity in arctic plants. McGraw, J.B., [1995,eng] 50-3891
- Patterns and current changes in alpine plant diversity. Grabherr, G., et al. [1995,eng] 50-3898
- Patterns, cause, changes and consequences on biodiversity in arctic and alpine ecosystems. Chapin, F.S., III, et al. [1995,eng] 50-3907
- Periphytic diatom assemblages from high arctic ponds. Douglas, M.S.V., et al. [1995,eng] 50-1460
- Permafrost soil thawing after forest fires. Swanson, D.K., [1996,eng] 50-5497
- Plankton bloom in a Greenland pingo. Kristiansen, J., et al. [1995,eng] 50-366
- Plankton dynamics in the Barents Sea marginal ice zone. Hansen, B., et al. [1996,eng] 50-3528
- Plankton ecosystems in the Norwegian and Greenland Sea. Samleboen, C., et al. [1995,eng] 50-749
- Planktonic communities of melt ponds on the McMurdo Ice Shelf, Antarctica. James, M.R., et al. [1995,eng] 50-1282
- Plant ecology during desertification of an arctic salt marsh. Srivastava, D.S., et al. [1996,eng] 50-4523
- Plant effects on arctic ecosystem biogeochemical processes. Hobbie, S.E., [1995,eng] 50-3901
- Plant form and function in alpine New Guinea. Hnatuk, R.J., [1994,eng] 50-3060
- Plant functional diversity and resource control of primary production in Alaskan arctic tundras. Shaver, G.R., [1995,eng] 50-3900
- Plant-vertebrate herbivore interface in arctic ecosystems. Jefferies, R.L., et al. [1995,eng] 50-3905
- Possible responses of mountain vegetation to a global climatic change. Ozenda, P., et al. [1995,eng] 50-1017
- Practical solution to the problems of biological recultivation in the Far North. Archegova, I.B., et al. [1994,rus] 50-254
- Primary productivity and microbial variations in the Chukchi Sea. Coa, G.F., et al. [1996,eng] 50-5457
- Problems in the ecology of polar regions, vol.2: collected scientific papers. Bogoslovskaja, L.S., ed. [1991,rus] 50-1288
- Protecting tundra ecosystems in oil extraction regions. Solovov, V.A., et al. [1994,rus] 50-255
- Qualitative successional models in Glacier Bay. Sharman, L.C., et al. [1995,eng] 50-3753
- Rational use of natural resources and protection of the zone of algae macrophytes in a northern region. Makarov, V.N., [1991,rus] 50-1311
- Recultivating the ecosystems in the Russian Arctic. Zarubin, S.I., et al. [1994,rus] 50-289
- Report on acidification in the arctic countries. Nenonen, M., [1991,eng] 50-3418
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- Report on the Czechoslovak biological diving expedition "Arctic 92". Duvrís, Z., [1993,eng] 50-2217
- Research on Antarctic Shallow Coastal and Littoral Systems (RASCALS). Klöser, H., et al. [1995,ger] 50-2570
- Response of leaching from mire ecosystems to changing climate. Sallantausta, T., [1994,eng] 50-3222
- Responses of arctic polar desert plant litter chemistry to climatic changes. Robinson, C.H., et al. [1995,eng] 50-5100
- Role of above-ground biomass in carbon cycling in drained peatland ecosystems. Laiho, R., et al. [1994,eng] 50-3216
- Russian oceanographic expedition in the Kara Sea. Lisitsyn, A.P., et al. [1995,eng] 50-3530
- Seed rain, seedling establishment and clonal growth strategies on a glacier foreland. Stöcklin, J., et al. [1996,eng] 50-5295
- Ski slope vegetation in central Honshu, Japan. Tsuyuzaki, S., [1995,eng] 50-1861
- Soil nutrient dynamics in East African alpine ecosystems. Rehder, H., [1994,eng] 50-3055
- Soil properties beneath cañthos and pine stands in the eastern Sierra Nevada. Johnson, D.W., [1995,eng] 50-630
- Solifluction in the Swedish mountains. Ulfstedt, A.C., [1993,eng] 50-840
- Some regularities in the formation of algal flora in disturbed tundra ecosystems. Sharipova, M.I.U., et al. [1994,rus] 50-268
- Spitsbergen—Resources and economic development in a High Arctic island group. Thannheiser, D., [1996,ger] 50-6574
- Stability of tundra ecosystems and forecasting their reaction to anthropogenic transformation. Vil'chek, G.E., [1995,rus] 50-3970
- State of High Arctic shallow ecosystems in Franz Josef Land. Averintsev, V.G., [1991,rus] 50-1296
- Studying arctic and subarctic ecosystems of impact regions using remote monitoring methods. Tereshenkov, O.M., et al. [1994,rus] 50-278
- Sulfate deposition over the Arctic Ocean. Smith, L., [1995,eng] 50-643
- Surface water chemistry and hydrology of a small arctic drainage basin. Everett, K.R., et al. [1996,eng] 50-4847
- Svalbard—field excursion in arctic marine biology, June 5-14, 1995. Weissenberger, J., ed. et al. [1995,eng] 50-1554
- Synopsis of Alaska wetland vegetation. Batten, A.R., [1987,eng] 50-3912
- Tardigrada of the arctic tundra with descriptions of two new species. Maucchi, W., [1996,eng] 50-5293
- Tardigrades of the Taimyr peninsula with descriptions of two new species. Biserov, V.I., [1996,eng] 50-5294
- Technological effects on tundra ecosystems and the recultivation of disturbed territory. Sumina, O.I., [1992,rus] 50-3406
- Temperate rainforest lakes of Chile and British Columbia. Soto, D., et al. [1996,eng] 50-4066
- Temperature elevation effects on arctic soil insects. Coulson, S.J., et al. [1996,eng] 50-3529
- Thermal erosion in high arctic ecosystems in Spitsbergen. King, L., et al. [1993,eng] 50-843
- Tibetan alpine ecosystem response to climatic changes. Zhang, Y.Q., et al. [1996,eng] 50-5495
- Tropical alpine climates. Rundel, P.W., [1994,eng] 50-3045
- Tropical alpine ecology: progress and priorities. Rundel, P.W., et al. [1994,eng] 50-3061
- U.S. arctic policy aims for circumpolar cooperation. Senseney, R., [1995,eng] 50-955
- Understanding the impact of climate change on mountain ecosystems: an overview. Guisan, A., et al. [1995,eng] 50-1003
- United States arctic research plan: Biennial revision: 1996-2000. Meyers, C.E., et al. [1995,eng] 50-3243
- UV-B-tolerance of alpine and arctic *Daphnia*. Zellmer, I.D., [1995,eng] 50-1972
- Vegetation chronosequence near Exit Glacier, Kenai Fjords National Park, Alaska, U.S.A. Helm, D.J., et al. [1995,eng] 50-3325
- Vegetation cover in technogenic regions of Northern Europe. Gruzdev, B.I., et al. [1994,rus] 50-263
- Vegetation of land-bridge Beringia. Young, S.B., [1982,eng] 50-3377
- Water chemistry and periphyton in an alpine wetland. Toetz, D., [1995,eng] 50-4161
- Wetlands and ground water in the United States. Stone, A.W., et al. [1994,eng] 50-971
- Zooplankton communities of lakes in Glacier Bay National Park. Olson, O.G., et al. [1995,eng] 50-3751
- See (also): Ecology; Forest ecosystems; Paleocology; Plant ecology
- Ecuador**
- Quaternary glacial in the Andes. Heine, K., [1995,eng] 50-4837
- Education**
- Arctic research at San Diego State University. [1996,eng] 50-5573
- Arctic science, engineering, and education—directory of awards: fiscal year 1994. United States. National Science Foundation, [1994,eng] 50-1553
- Avalanche book. Armstrong, B.R., et al. [1992,eng] 50-863
- Biennial report, 1993-1994. Colorado. University. Institute of Arctic and Alpine Research (INSTAAR), [1995,eng] 50-43
- Buoys in the Arctic study heat exchange. Honjo, S.S., et al. [1996,eng] 50-6334
- Computer network database for paleoclimatological studies. Roof, S.R., et al. [1996,eng] 50-5712
- Explore Antarctica. Crossley, L., [1995,eng] 50-230
- Glacial geology: how ice shapes the land. Erickson, J., [1996,eng] 50-3555
- Ground deicing. George, F., [1995,eng] 50-3688
- Laboratory exercise introducing glacial geomorphology. Harbor, J.M., et al. [1995,eng] 50-3861
- Making an ice core. Kopaska-Merkel, D.C., [1995,eng] 50-1150
- Nomenclature applied to deposits formed in glacial and ice-contact environments. Hill, H.K., et al. [1996,eng] 50-5711
- Private enterprise employment of Greenlanders at Thule Air Base. Sørensen, P.E., [1995,eng] 50-2970

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- Prospects for Polish studies in Antarctica. Birkenmajer, K., [1989.pol] 50-2877
- Significance of social trends and snow cover. Oishi, T., [1988.jpn] 50-2050
- Snowpack study in school. Chisholm, R.M., [1995.eng] 50-3122
- Trends of the times related to snow. Yagasaki, T., [1988.jpn] 50-2049
- Was it snowing snowballs? Bartlett, A.A., [1996.eng] 50-5941
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- Elastic properties of dense H₂O-ices studied by Brillouin spectroscopy. Shimizu, H., [1996.eng] 50-6725
- Elasticity of partially saturated frozen sand. Jacoby, M., et al., [1996.eng] 50-4323
- Elasto-delayed-elastic simulation of short-term deflection of fresh-water ice covers. Sinha, N.K., et al., [1996.eng] 50-5474
- Free vibrations of a snowboard. Sakata, T., et al., [1996.eng] 50-4568
- High-pressure Brillouin scattering and elastic properties of liquid and solid methane. Shimizu, H., et al., [1996.eng] 50-5682
- High-pressure elastic properties of the VI and VII phase of ice in dense H₂O and D₂O. Shimizu, H., et al., [1996.eng] 50-4355
- Orientation dependence of elastic constants for ice. Parameswaran, V.R., [1987.eng] 50-4223
- Resilient modulus of cohesive soils and the effect of freeze-thaw. Lee, W.J., et al., [1995.eng] 50-578
- Two-dimensional dynamic simulation of solid fracture. Part I: description of the model. Potapov, A.V., et al., [1995.eng] 50-947
- Use of layered theory in the design and evaluation of pavement systems. Hicks, R.G., et al., [1982.eng] 50-5914
- See [also]: Ice elasticity; Snow elasticity; Viscoelasticity
- Elastic waves**
- Acoustic emissions during ice phase transformations. Sakharov, I.I., [1995.eng] 50-157
- Coupling and propagation of elastic waves in arctic pack ice. Jarvis, S.M., et al., [1994.eng] 50-5178
- Elastic wave sensing system. Liu, Y., et al., [1995.eng] 50-3471
- Elasticity of partially saturated frozen sand. Jacoby, M., et al., [1996.eng] 50-4323
- Propagation of elastic waves in ice. Ryzhkin, I.A., [1984.eng] 50-5787
- Seismic operations in the Dzhanqat Glacier. Aleshin, A.S., [1972.rus] 50-530
- Self-excited oscillations in ice flows and icebergs. Smirnov, V.N., et al., [1995.eng] 50-2946
- Electric cables**
- See [also]: Transmission lines
- Electric charge**
- See [also]: Charge transfer; Static electricity
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- AC breakdown process of snow sample simulating capped snow on insulator strings. Higashiyama, Y., et al., [1996.eng] 50-5383
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- Artificial rime-covering and discharge test of long insulator strings. Su, F.H., et al., [1996.eng] 50-5390
- DC characteristics of local arc on ice surfaces. Farzaneh, M., et al., [1996.eng] 50-5344
- Effect of ice and atmospheric pressure on insulator flashover. Shu, L.C., et al., [1996.eng] 50-5388
- Factors influencing flashover characteristics along ice surfaces. Chen, X., et al., [1996.eng] 50-5343
- Flashover between power lines caused by ice shedding. Savadjev, K., et al., [1996.eng] 50-5386
- Flashover on ice surfaces. Farzaneh, M., et al., [1996.eng] 50-5389
- Galloping events and associated meteorological condition experienced in Hokuriku area. Kasima, H., et al., [1996.eng] 50-5380
- Insulators in icing conditions: selection and measures for reliability increasing. Sklenicka, V., et al., [1996.eng] 50-5342
- Leakage resistance of iced insulators and chemical data of ice and snow. Sugawara, N., et al., [1996.eng] 50-5384
- Study of minimum flashover voltage of iced-covered suspension insulators. Shu, L.C., et al., [1996.eng] 50-5345
- Surface conductivity and flashover voltages of ice covered insulators. Farzaneh, M., et al., [1995.eng] 50-207
- Electric equipment**
- Canadians wrap-up arctic vessels. [1986.eng] 50-5654
- Cold-related electric power system considerations. Aspes, J., et al., [1996.eng] 50-6143
- Conductive polymeric conduit heater. Peacock, D.G., et al., [1988.eng] 50-2330
- Electrical wire. Belash, I.P., et al., [1992.rus] 50-1907
- Electro-impulse de-icer. Adams, L.J., [1995.eng] 50-3469
- Electro-impulse deicing of the NASA Lewis altitude wind tunnel turning vanes. Ross, R., [1988.eng] 50-4100
- Heated mat structure for melting ice and snow. Dyer, C.W., [1995.eng] 50-3477
- Method and apparatus for timed de-icing. Kugelman, M.M., et al., [1987.eng] 50-2334
- Relocation of telecommunication facilities at Syowa Station. Takada, K., [1995.jpn] 50-3499

- Surface conductivity and flashover voltages of ice covered insulators. Farzaneh, M., et al., [1995.eng] 50-207
- Technical fleet operations. Zhukov, A.V., ed., [1992.rus] 50-18
- Underwater maintenance and inspection of CP systems (Cook Inlet, Alaska). Daley, J.C., et al., [1996.eng] 50-5502
- Windshield defroster. Yoshikawa, H., et al., [1987.eng] 50-2242
- Electric fields**
- Analysis of interference effects on surface-impedance mapping of glacier thickness. Thiel, D.V., et al., [1996.eng] 50-4889
- Climatic implications of solar modulation of cosmogenic isotopes in antarctic ice cores. Steig, E.J., et al., [1996.eng] 50-3549
- Crack velocities in freshwater and saline ice. Petrenko, V.F., et al., [1996.eng] 50-5299
- Dipole-axis sounding and its use in studying the cryolithosphere. Shubin, A.B., [1995.rus] 50-2516
- Dual polarization radar observations of thunderclouds in winter season. Sonoi, Y., et al., [1995.eng] 50-4258
- Effect of electroporation on intracellular ice formation in rye leaf protoplasts. Chandrasekaran, M., et al., [1995.eng] 50-1465
- Electric field effects on growing ice surface force curves. Slaughterbeck, C.R., et al., [1996.eng] 50-5939
- Electric fields and charges near 0°C in stratiform clouds. Shepherd, T.R., et al., [1996.eng] 50-5821
- Electrical sounding of the cryolithosphere in the Arctic using transient processes. Nim, I.U.A., [1989.rus] 50-2303
- Electrification of thunderstorm cells during cloud ice formation. Ramachandran, R., et al., [1996.eng] 50-3020
- Electrodynamics of the upper atmosphere and radio aurora in the northern polar cap. Kustov, A.V., et al., [1994.eng] 50-1964
- Evidence for ferroelectric ordering of ice Ih. Jackson, S.M., et al., [1995.eng] 50-1573
- Examining the use of time domain reflectometry for measuring liquid water content in frozen soil. Spaans, E.J.A., et al., [1995.eng] 50-2543
- Geoelectromagnetic monitoring of water discharge in the Bering Strait. Shneer, V.S., et al., [1995.eng] 50-3831
- Polar cap contraction associated with the leading edge of a magnetic cloud. Knipp, D.J., et al., [1996.eng] 50-3071
- Processes in the polar cap and magnetosphere in the presence of northern permafrost. Troshichev, O.A., [1991.rus] 50-1634
- Quartzlike polymorph of ice. Svishchev, I.M., et al., [1996.eng] 50-4412
- Radar observation of ice crystal orientation in thunderstorms. Caylor, I.J., et al., [1996.eng] 50-5684
- Smart skis and other adaptive structures. Ashley, S., [1995.eng] 50-4618
- Thermodynamic analysis of the influence of electric fields on frost formation. Ma, H.B., et al., [1995.eng] 50-2156
- Thunderstorm electrification. Saunders, C.P.R., [1995.eng] 50-4075
- Electric heating**
- Design, building and testing of a latent heat thermal energy storage element. Millette, J., et al., [1996.eng] 50-6442
- Electric current heater for pipes. Vainio, U., [1990.eng] 50-2342
- Energy saving characteristics of new type road-heating system. Hokari, K., et al., [1996.eng] 50-5400
- Experiences of wind gauges used for measurements in cold regions. Tammelin, B., [1992.eng] 50-3637
- Handbook for field evaluation of the 600 ROWPU winterization kit. U.S. Army Cold Regions Research and Engineering Laboratory, [1990.eng] 50-6048
- Heated anemometer for atmospheric icing environments. Kenyon, P.R., et al., [1992.eng] 50-3638
- Heaters for oil pipelines. [1991.eng] 50-4380
- Ice free fire escapes. [1991.eng] 50-4379
- Oil recovery from Alaskan tar sands using electromagnetic heating. Islam, M.R., et al., [1991.eng] 50-1760
- Electric power**
- Alternative energy at the Juan Carlos I Station. Castellvi, J., et al., [1994.eng] 50-4277
- Antarctic alternative energy summary. Chiang, E., U.S. National Science Foundation. Office of Polar Programs, [1994.eng] 50-4278
- Apparatus and method for powered thermal friction adjustment. Tabar, W.J., [1995.eng] 50-3462
- Automatic integrated module installed at Terra Nova Bay. Lori, A., [1994.eng] 50-4281
- Characteristics of forecasting energy consumption in the mining industry. Kuznetsov, N.M., [1992.rus] 50-714
- Cold-related electric power system considerations. Aspes, J., et al., [1996.eng] 50-6143
- Dam construction for Norway's largest hydropower reservoir. Karlson, L.E., et al., [1995.eng] 50-5707
- Development of a man-machine system for hydroenergy studies on the Kola Peninsula. Marchuk, S.A., et al., [1992.rus] 50-708
- Development of a wind turbine system for Antarctica. Kimura, S., [1992.eng] 50-3633
- Development of energy sources for the Qinghai-Xizang Plateau. Tong, W., [1992.chi] 50-1480
- Diesel heat recovery plant related to local heating and electricity production. Niemi, S., [1984.eng] 50-3162
- Energy complexes in the Kola Peninsula based on small hydroelectric stations. Marchuk, S.A., et al., [1992.rus] 50-709

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- Energy consumption in the Murmansk region and the effectiveness of its energy industry. Barannik, B.G., et al., [1992.rus] 50-706
- Geocryological conditions for power plant foundations in Russia. Krivonogova, N.F., et al., [1991.eng] 50-1736
- Hydraulic fill ash storage design for the permafrost zone. Korotova, I.V., et al., [1995.eng] 50-1838
- Ice jamming in upper Niagara River: processes and plan of study. Crissman, R.D., et al., [1995.eng] 50-362
- Icenet: hydro power for Europe. De Jong, D.J., [1995.eng] 50-2969
- Icing of wind turbine rotor blades during operation. Seifert, H., [1992.eng] 50-3631
- Icing test and rework of WECS for use on Lapland's fjells. Böhmek, G., et al., [1992.eng] 50-3635
- Lakes and hydropower in Xizang. Wang, Y.L., [1992.chi] 50-1481
- Nature of hydroelectric power exploitation. Vischer, D., [1996.ger] 50-4175
- Passive melting of ice and snow on solar photovoltaic arrays. Ross, M.M.D., et al., [1996.eng] 50-5370
- Potentials for utilization of hydroelectric resources in Greenland. Taagholt, J., [1995.eng] 50-2963
- Problems in energy savings and key trends in their solutions. Elokkin, V.R., et al., [1992.rus] 50-704
- Problems in the energy supply of the Murmansk region. Stepanov, I.R., ed., [1992.rus] 50-703
- Proceedings. International Experts' Meeting on Wind Power in Icing Conditions, Helsinki, Finland, 1992. Boreas-North Wind-Pohjatuuli, [1992.eng] 50-3626
- Producing energy for polar stations from the wind-water temperature gradient. LeGoff, H., et al., [1994.eng] 50-4275
- Prospects for energy supply in industrial centers. Panin, A.P., [1992.rus] 50-712
- Prospects for the industrial use of wind power on the Kola Peninsula. Minin, V.A., et al., [1992.rus] 50-710
- Prospects for using solar energy in the Murmansk region. Minin, V.A., et al., [1992.rus] 50-711
- Russian alternative energy sources in the Antarctic. Sheinshstein, A.S., [1994.eng] 50-4276
- Status report on alternative energy systems at antarctic stations. Guichard, A., [1994.eng] 50-6423
- Structure-independent measurement of icing. Maikonen, L., [1992.eng] 50-3629
- Temperature-controlled tests on a snow-removal system for photovoltaic panels. Gastonguay, L., et al., [1996.eng] 50-5403
- Towards new energy systems for antarctic stations. Guichard, A., [1994.eng] 50-4274
- Turbine blade icing model. Finstad, K.J., et al., [1992.eng] 50-3628
- Using solar energy at the South Pole: photovoltaic electricity and solar heating. Willis, R.H., [1988.eng] 50-3880
- Utilities and systems for the new Amundsen-Scott Station. Theno, S., et al., [1996.eng] 50-6142
- Wind energy research in NEMO—research program. Peltola, E., [1992.eng] 50-3627
- Wind turbines in northern climates—Canadian experiences. Brothers, C., [1992.eng] 50-3634
- World's first artificial ice plug for a hydro tunnel. Berggren, A.L., et al., [1995.eng] 50-5708
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- DC characteristics of local arc on ice surfaces. Farzaneh, M., et al., [1996.eng] 50-5344
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- Conductivity effects on electromagnetic emissions (EME) from ice fracture. O'Keefe, S.G., et al., [1996.eng] 50-4221
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Microwave permittivity of dry snow. Mätzler, C., [1996,eng] 50-3887
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Effect of freezing on the electric conductivity and dielectric constant of Portland cement. Olson, R.A., et al., [1995,eng] 50-368
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Electrical freezing potentials measured in a pingo growing in the western Canadian Arctic. Parameswaran, V.R., et al., [1996,eng] 50-5471
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Laboratory technique for measurement of spectral induced polarization response of soil samples. Vanhala, H., et al., [1995,eng] 50-2998
Leakage resistance of iced insulators and chemical data of ice and snow. Sugawara, N., et al., [1996,eng] 50-5384
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Electrical and magnetic methods for gold exploration. Shi, K.F., et al., [1993,chi] 50-2387
Electrical sounding of the cryolithozone in the Arctic using transient processes. Nim, I.U.A., [1989,rus] 50-2303
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Electromagnetic methods in permafrost research. Krylov, S.S., et al., [1995,rus] 50-2511
Electromagnetic system and its use in electrometry of the cryolithozone. Badalov, V.D., et al., [1989,rus] 50-2306
Geophysical investigations of cryolithozone. Scientific papers. Frolov, A.D., ed., [1995,rus] 50-2502
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Geophysical studies of the Antarctic Peninsula. Fournier, H.G., [1994,eng] 50-1322
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Measurement of ice accretion and persistence at unmanned sites. Final report. Hill, G.E., [1990,eng] 50-4365
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Cold regions engineering research—a strategic plan. Carlson, R.F., ed., et al., [1988,eng] 50-6209
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Cyclic triaxial tests of the Bootlegger Cove Formation, Anchorage, Alaska. Lade, P.V., et al., [1988,eng] 50-405
Dam construction for Norway's largest hydropower reservoir. Karlsen, L.E., et al., [1995,eng] 50-5707
Earthquake induced landslide in Anchorage, 1964. Udpick, R.G., et al., [1988,eng] 50-401
Ecologization of technological processes in oil and gas construction in arctic regions. Shishov, V.N., et al., [1990,rus] 50-1606
Effects of climatic change on permafrost in the arid and semi-arid regions of China. Xie, Y.Y., [1995,eng] 50-3391
Engineering geological characteristics of solifluctive soil (Yamal Peninsula). Platov, N.A., et al., [1985,rus] 50-244
Engineering role of processes caused by the interaction of natural and artificial factors. Glotov, V.E., [1991,rus] 50-438
Engineering-ecological basis for the oil and gas development of the North. Mazur, I.I., [1990,rus] 50-1600
Engineering-ecology safety during the operation of oil and gas facilities. Konstantinov, I.P., [1996,rus] 50-6845
Engineering-geocryological conditions of the Neytinsk structure. Dan'ko, V.K., et al., [1983,rus] 50-310

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- Engineering-geocryological environment and changes in natural conditions in Punginsk. Shamanova, I.I., et al. [1985.rus] 50-247
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- Engineering-geocryological regionalization of Tazov Peninsula. Belopukhova, E.B., et al. [1983.rus] 50-308
- Engineering-geocryological regionalization of the central regions of northwestern Siberia. Belopukhova, E.B., et al. [1985.rus] 50-241
- Environmental activity management and control exercised by pipeline association. Shishov, V.N., [1991.eng] 50-1762
- Environmental research project for Yambug gas fields. Chlenov, A.V., [1991.eng] 50-1766
- Environmental safety of construction of gas and oil facilities in arctic regions. Mazur, I.I., et al. [1991.eng] 50-1764
- Evolving description of a fractured carbonate reservoir: the Lisburne Field, Prudhoe Bay, Alaska. Missman, R.A., et al. [1991.eng] 50-1755
- Exploration for hydrocarbon deposits and engineering preparation of oil and gas provinces. Akhmetshin, A.A., et al. [1996.rus] 50-6371
- Forecasting seismic effects under cryolithozone conditions. Dzburik, V.I., [1995.rus] 50-2506
- Fracturing of glacial drift and bedrock over longwall mine panels. Johnston, M.A., et al. [1993.eng] 50-5517
- Frozen ground structures—basic principles of design. ISGF (International Symposium on Ground Freezing) Working Group 2, [1992.eng] 50-34
- Gas-producing units construction experience in the arctic regions. Zavizion, V.G., [1991.eng] 50-1763
- Geocryological conditions of Transbaikalia and engineering-geocryological problems. Shesternev, D.M., et al. [1993.rus] 50-108
- Geocryological studies in arctic regions, Vol. 5: Poster papers. Geokriologicheskoe issledovanie v arkticheskikh raionakh: mezhdunarodnyi simpozium, SSSR, IAmburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, August 1989). [1990.rus] 50-2299
- Geocryological typification of a territory according to frost heave formation conditions. Verkhoviz, I.I., et al. [1993.rus] 50-113
- Geophysical and laboratory methods for studying the mechanical characteristics of permafrost. Mamzelev, A.P., [1996.rus] 50-6833
- Geotechnical design of the Baydaratskaya Bay pipeline crossing. Osell, J.M., et al. [1995.eng] 50-177
- Hydraulic conductivity of frozen granular soils. Andersland, O.B., et al. [1996.eng] 50-4048
- Hydrogeology and engineering geology of permafrost zones. Yang, R.T., et al. [1986.chi] 50-1169
- Model of protecting the geological environment in the permafrost region. Kagan, A.A., [1995.eng] 50-343
- Models in engineering geocryology and their use in the organization of scientific studies. Levkovich, V.R., et al. [1989.rus] 50-2304
- Nearshore geotechnical and environmental properties in arctic regions. Clausner, J.E., et al. [1978.eng] 50-3941
- Practical considerations for GRM refraction surveys in glacial terrains. Kassenar, D., et al. [1993.eng] 50-5516
- Problems in improving the reliability of geotechnology and their systematic analysis. Linkov, A.S., [1989.rus] 50-2305
- Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991, [1991.eng] 50-1696
- Prospects for using geochemical methods in forecasting and evaluating technogenic talik zones. Tregubov, O.D., [1996.rus] 50-6855
- Prospects for using solar energy technology in Transbaikalia. Zhelezniak, I.I., et al. [1993.rus] 50-110
- Questions in engineering-geological mapping of routes of linear structures. Demidiuk, L.M., et al. [1983.rus] 50-309
- Questions in regional and engineering geocryology. Soboleva, I.V., ed. [1983.rus] 50-307
- Recent ground freezing in Scandinavia. Berggren, A.L., [1992.eng] 50-35
- Regional geocryological studies; collected scientific papers. Sukhodol'skii, S.E., ed. et al. [1985.rus] 50-238
- Regionalization of territories according to degree of risk to cryogenic processes. Kuznetsova, I.L., et al. [1996.rus] 50-6396
- Relation between permeability and pore size distribution of compacted clayey silts. Garcia-Bengochea, I., [1978.eng] 50-2802
- Research on new Alaskan mining technology. Chamberlain, P.G., [1991.eng] 50-1715
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- Review of papers on engineering problems of frozen ground. Thimus, J.F., [1992.eng] 50-28
- Subsurface seismostratigraphic mapping at Anchorage. Schmoll, H.R., et al. [1986.eng] 50-483
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- Study of the heat of crystallization of bound water in clay soils. Starostin, E.G., et al. [1996.rus] 50-6809
- Temperature effects on porous solid capillary functions. Grant, S.A., et al. [1996.eng] 50-5965
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- Laboratory studies of astrophysical ices. Dissly, R.W., [1994.eng] 50-680
- Model of predicting snow disaster using NOAA/AVHRR data in Nagqu area of Xizang. Lu, A.X., et al. [1995.chi] 50-3987
- Model of snow disaster assessment using NOAA/AVHRR data in Nagqu area of Xizang. Feng, X.Z., et al. [1995.chi] 50-3988
- Oil spill risks for Copper River Delta in Alaska. Christensen, F.T., et al. [1996.eng] 50-5556
- Physical modeling of ice jams. Wuebben, J.L., [1995.eng] 50-789
- Smart Weapons Operability Enhancement (SWOE) Joint Test and Evaluation (JT&E) Program. Final report. Welsh, J.P., [1994.eng] 50-2453
- Smart weapons operability enhancement synthetic scene generation process. Koenig, G.G., et al. [1995.eng] 50-3755
- Snow monitoring from satellite data in Xizang. Feng, X.Z., et al. [1995.chi] 50-3986
- Spatial analysis operation of background database of snow disaster. Sun, W.X., et al. [1995.chi] 50-3980
- Statistical validation of IR smart weapons scene generation. Welsh, J.P., et al. [1995.eng] 50-3754
- Study on snow disaster monitoring using remote sensing in Nagqu area of Xizang. Feng, X.Z., et al. [1995.chi] 50-3978
- Synthetic scene generation process for smart weapons. Welsh, J.P., et al. [1995.eng] 50-3834
- WinOil: an oil spill model for Windows 95. McGillivray, D.G., et al. [1996.eng] 50-5555
- Environmental impact**
- Active layer changes following forest tundra fire. Mackay, J.R., [1995.eng] 50-2807
- Aerial surveillance of oil sheen following the Exxon Valdez oil spill shoreline cleanup. Taft, D.G., et al. [1995.eng] 50-3919
- Aerosol deposition to an alpine tundra ecosystem. Sievering, H., et al. [1996.eng] 50-5964
- Airborne Arctic Stratospheric Expedition: prologue. Turco, R.P., et al. [1990.eng] 50-5973
- Aircraft measurements of the stable carbon isotopic ratio of atmospheric methane over Siberia. Sugawara, S., et al. [1996.eng] 50-6051
- Algae in terrestrial phytocoenoses of the east European Arctic. Patova, E., [1995.eng] 50-3175
- Analysis of the ecological status in the Ladoga Lake basin. Rumiantsev, V.A., et al. [1992.rus] 50-385
- Analysis of the Komi-Neft pipeline oil. Lambert, P., et al. [1995.eng] 50-5734
- Analytical methods to study road construction encroachment on the environment. Ivehammar, P., [1996.swe] 50-6686
- Analyzing frozen soil stability in Siberian oil and gas production regions. Tumel', N.V., et al. [1994.rus] 50-262
- Analyzing the composition of ecosystems of land in the Noril'sk industrial region. Igamberdiev, V.M., et al. [1994.rus] 50-277
- Analyzing the composition of tundra shrubs in Central Yamal. Arefev, S.P., [1994.rus] 50-265
- Analyzing the stability of soil-vegetation cover under mechanical forces. Zvereva, T.S., [1994.rus] 50-273
- Analyzing the state of Ul' tributaries of the Ob' River according to zoobenthos indicators. Sharapova, T.A., et al. [1994.rus] 50-283
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- Anthropogenic climate change and reduction of water resources. Golubov, V.V., et al. [1996.eng] 50-5055
- Anthropogenic effect on plant communities on Otkriab'skaya Revoliutsiya I. Gavrilov, M.V., [1991.rus] 50-1309
- Anthropogenic factors in the dynamics of shelf and the Barents Sea coastal ecosystems. Matishov, G.G., et al. [1993.eng] 50-2190
- Anthropogenic impacts on biodiversity in the Arctic. Young, O.R., et al. [1995.eng] 50-3899
- Arctic haze phenomenon. Shaw, G.E., [1995.eng] 50-4569
- Arctic marine mammals as integrators and indicators of mercury in the Arctic. Wagemann, R., et al. [1995.eng] 50-881

- Arctic radioactive contamination from former Soviet Union sources. Bradley, D.J., [1992.eng] 50-5844
- Arctic terrestrial ecosystems and environmental change. Callaghan, T.V., et al. [1995.eng] 50-5232
- Arctic vegetation types as response predictors to global change. Chapin, F.S., III, et al. [1996.eng] 50-6557
- Assessing effects on cryogenic terrain. Zotova, L.I., et al. [1996.rus] 50-6846
- Assessment of the impact of the greenhouse gas emission and sink scenarios in Finland. Pipatti, R., et al. [1994.eng] 50-3234
- At the center of scientists' attention—problems of biology in northern seas. Matishov, G.G., [1995.rus] 50-4304
- Atmospheric carbon emission from North Asian lakes: a factor of global significance. Semiletov, I.P., et al. [1996.eng] 50-5609
- Atmospheric deposition and pollutant exposure of eastern U.S. forests. Mohnen, V.A., [1992.eng] 50-4052
- Atmospheric deposition effects on foliar injury and foliar leaching in red spruce. Schier, G.A., et al. [1992.eng] 50-4056
- Avalanche report from Mt. Shasta. Bachman, D., [1996.eng] 50-4759
- Balancing safety and the environment. Mericas, D., et al. [1994.eng] 50-2123
- Barents Sea biomass reaction to gas condensate pollution. Gorbacheva, E.A., et al. [1996.eng] 50-6581
- Basic problems in the study of biota and its role in the life of Arctic ecosystems. Kallakin, V.N., et al. [1991.rus] 50-1297
- Basis for statistical inferences in coastal injury assessment of Exxon Valdez oil spill. McDonald, L.L., et al. [1995.eng] 50-3922
- Beaufort Sea Planning Area Oil and Gas Lease Sale 144. Final environmental impact statement. U.S. Department of the Interior. Minerals Management Service. Alaska Outer Continental Shelf Region, [1996.eng] 50-4552
- Biogeochemistry of heavy metals in the Arctic. Dobrovolskii, V.V., [1995.rus] 50-3971
- Biological rehabilitation of disturbed lands in the arctic gas-producing regions. Masalkin, S.D., [1991.eng] 50-1767
- Catline rehabilitation and restoration. Bolstad, R., [1971.eng] 50-3245
- Causes and consequences of plant functional diversity in arctic ecosystems. Chapin, F.S., III, et al. [1995.eng] 50-3902
- Changes in the level of industrial air pollutants in peat bogs in the cryolithozone. Evseev, A.V., et al. [1996.rus] 50-6853
- Changes in trace element speciation in Kola north surface waters during snow melt. Rodushkin, I.V., et al. [1995.eng] 50-4080
- Characteristics of air pollution in the Magadan District. Kozovets, N.E., [1991.rus] 50-442
- Chaudiere Island proposed snow dumping facility: an environmental appraisal. Lopez, K., et al. [1981.eng] 50-1200
- Chemical and toxicological evaluation of water quality following the Exxon Valdez oil spill. Neff, J.M., et al. [1995.eng] 50-3917
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995.eng] 50-5717
- Chemical characterization of individual aerosol particles in central Siberia. Van Malderen, H., et al. [1996.eng] 50-4966
- Chemistry of artificial snow and its influence on the germination of mountain flora. Jones, H.G., et al. [1995.eng] 50-2428
- Chernobyl fallout in Bering Sea sediments. Kuskabe, M., et al. [1988.eng] 50-4635
- Cleansing role of clay-oil flocculation in shoreline sediments following an oil spill. Bragg, J.R., et al. [1995.eng] 50-3918
- Cleanup assessment of the pipeline oil spill on the Kova River. Sienkiewicz, A.M., et al. [1996.eng] 50-5570
- Climate change impact on hydrology and cryology. Sæthun, N.R., [1995.eng] 50-1005
- Cloud attenuation of ultraviolet radiation in alpine regions. Blumhaller, M., et al. [1996.eng] 50-3610
- Coastal environments of the western Kara and eastern Barents Seas. Pirman, S.L., et al. [1995.eng] 50-4558
- Command organization on the Severnaya Zemlya archipelago. Petrov, V.N., et al. [1991.rus] 50-1292
- Comparative study of bottom sediment pollution in Lianyungang and Vladivostok harbors. Tkalin, A.V., [1995.eng] 50-5063
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- Computer database on anthropogenic arctic vegetation. Sumina, O.I., [1994.rus] 50-261
- Concepts and criteria of reestablishing natural systems. Tiurin, V.N., [1994.rus] 50-297
- Conflicts and communications in the cryosphere. Osherenko, G., et al. [1990.eng] 50-1662
- Contaminants in the arctic marine environment: priorities for protection. Macdonald, R.W., et al. [1996.eng] 50-5574
- Crop-hail damage in the Midwest corn belt. Hillaker, H.J., Jr., et al. [1985.eng] 50-4592
- Damming James Bay: I. Potential impacts on coastal climate and the water balance. Rouse, W.R., et al. [1992.eng] 50-5030
- Damming James Bay: II. Impacts on coastal marshes. Price, J.S., et al. [1992.eng] 50-5031
- Decline of fauna in small streams in the Swedish mountain range. Olofsson, E., et al. [1995.eng] 50-4078
- Determining the geocological stability of the cryolithozone. Osadchaia, G.G., et al. [1996.rus] 50-6851

Environmental impact

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- Development of an Alaskan North Slope soils database for drill cuttings reclamation. Schumacher, J.P., et al. [1991.eng] 50-1722
- Development of the North and the problem of recultivation. International Conference on the Development of the North and the Problem of Recultivation. 2nd, Syktyvkar, Apr. 25-28, 1994. [1994.rus] 50-251
- Dispersal of metal-contaminated sediments in an arctic river. Sear, D., et al. [1996.eng] 50-6516
- Distribution of cesium-137 in Bering and Chukchi Sea marine sediments. Cooper, L.W., et al. [1995.eng] 50-5062
- Distribution of pesticide residues in arctic coastal ecosystems. Bright, D.A., et al. [1995.eng] 50-4747
- Disturbance and recovery of arctic Alaskan vegetation. Walker, D.A., [1996.eng] 50-4841
- Diversity of pine forests in the Lapland State Reserve, the Kola Peninsula. Neshataev, V.I.U., et al. [1995.eng] 50-3174
- Dredging Eagle River Flats: remediation study in an active impact area. Walsh, M.R., [1996.eng] 50-5913
- Ecogeochemical investigations, Kola Peninsula: sulphur and trace element content in snow. Äyräs, M., et al. [1995.eng] 50-4081
- Ecologic-geographical basis for monitoring technogenic oil and gas polluted territories in the Usinsk region. Evdokimova, T.V., et al. [1994.rus] 50-260
- Ecological problems in the cryogenic-hydrogeological conditions in northwestern Siberia. Petrova, R.G., et al. [1996.rus] 50-6847
- Ecological protection in mining of minerals. Tsygankov, A.V., et al. [1992.rus] 50-818
- Ecological safety of navigation on the Northern Sea Route. Semanov, G.N., [1996.eng] 50-4437
- Ecological-hygienic aspects of the development of the Bovanenkov gas condensate field. Kvashina, S.I., [1994.rus] 50-301
- Ecology and decline of red spruce in the eastern United States. Eagar, C., ed. et al. [1992.eng] 50-4049
- Ecophysiology of a snow-bed moss during snowmelt. Woolgrove, C.E., et al. [1996.eng] 50-6748
- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: introduction. Reynolds, J.F., et al. [1996.eng] 50-4839
- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: progress and prospects. Tenhunen, J.D., et al. [1996.eng] 50-4857
- Effect of air pollution on flora and fauna in tundra landscapes. Polishvedkin, V.V., [1994.rus] 50-256
- Effect of air pollution on soil invertebrates in the Lapland biosphere reserve. Giliazova, E.V., [1994.rus] 50-286
- Effect of deer on roadside trees in Hokkaido. Miyamoto, S., et al. [1995.jp] 50-6788
- Effect of ethanol additives on odor detection of Alaskan gasolines. Zhao, X.H., et al. [1995.eng] 50-3393
- Effect of introduced disturbances on the development of thermo-erosional processes. Glavatskikh, V.V., et al. [1996.rus] 50-6404
- Effect of oil pollution on the ecosystems of Kola Bay. Sakulina, M.V., et al. [1991.rus] 50-1320
- Effect of technogenic disturbances on the thermal regime of soils in Central Yakutia. Skriabin, P.N., et al. [1996.rus] 50-6394
- Effect of the laying of gas pipelines on the geosystem of the cryolithozone in Western Siberia. Moskalenko, N.G., [1996.rus] 50-6849
- Effect of the popularization of studless tires on the road environment. Mima, H., et al. [1995.jp] 50-6790
- Effects of air pollution on carbon allocation in red spruce. McLaughlin, S.B., et al. [1992.eng] 50-4058
- Effects of climate change on plant diversity and distribution. Holten, J.I., [1995.eng] 50-1006
- Effects of deicing salt on vegetation along highways in Sweden. Bäckman, L., et al. [1995.eng] 50-4602
- Effects of fire in the taiga on the environment. Lotspeich, F.B., et al. [1971.eng] 50-3244
- Effects of forest clearcutting on snow hydrology. Meng, F.R., et al. [1995.eng] 50-768
- Effects of oil spills on high arctic plant communities in Greenland. Bay, C., et al. [1994.eng] 50-303
- Effects of smelter emissions on pine tree frost hardness. Suinen, M.L., et al. [1996.eng] 50-4309
- Effects of the Exxon Valdez oil spill on subtidal sediments in bays. Page, D.S., et al. [1996.eng] 50-5563
- Effects of vehicle tracks on arctic tundra. Kevan, P.G., et al. [1995.eng] 50-962
- Emissions from antiskid materials applied to icy roadways. Phase 2. Kinsey, J.S., [1995.eng] 50-3939
- Endurance of arctic ecosystems in changes in the environment. Golikov, A.N., et al. [1991.rus] 50-1294
- Energy flow to arctic tundra surface and experiences of induced disturbances. Rydén, B.E., [1993.eng] 50-2209
- Engineering-ecology safety during the operation of oil and gas facilities. Konstantinov, I.P., [1996.rus] 50-6845
- Engineering-geocryological environment and changes in natural conditions in Punginsk. Shamanova, I.I., et al. [1985.rus] 50-247
- Environmental activity management and control exercised by pipelaying association. Shishov, V.N., [1991.eng] 50-1762
- Environmental aspects of the Northern Sea Route. Hansson, R., et al. [1996.eng] 50-4439
- Environmental changes in the North under the influence of technogenic factors. Makarova, O.A., [1994.rus] 50-285
- Environmental degradation in the northeastern Qinghai-Xizang Plateau. Zheng, Y.C., [1994.eng] 50-4786
- Environmental effects of the Antonio Gramsci oil spill in 1987. Hirvi, J.P., [1990.eng] 50-469
- Environmental evaluation of the rebuilding of Signy Station. British Antarctic Survey, [1990.eng] 50-1546
- Environmental factors: conceptual design and current status. Hansson, R., et al. [1996.eng] 50-4436
- Environmental impact assessment (EIA) in INSROP. Thomasen, J., et al. [1996.eng] 50-4438
- Environmental impact of offshore oil exploration in the Arctic. Mosbech, A., et al. [1995.eng] 50-2964
- Environmental protection measures for the West Siberian Arctic and Subarctic. Chistov, S.V., [1991.rus] 50-1298
- Environmental research project for Yamburg gas fields. Chlenov, A.V., [1991.eng] 50-1766
- Environmental safety of construction of gas and oil facilities in arctic regions. Mazur, I.I., et al. [1991.eng] 50-1764
- Environmental security and the NSR: a pan-Arctic challenge? Östreg, W., [1996.eng] 50-4451
- Estimating deformation in river floodplains under conditions of human activity. Zimichev, V.P., [1991.rus] 50-1306
- Evaluating the anthropogenic transformation of tundra vegetation in the Nenets Autonomous District. Akul'shina, N.P., et al. [1994.rus] 50-257
- Evaluating the stability of natural complexes in tundra under technogenic disturbances. Demanov, V.E., et al. [1994.rus] 50-259
- Evaluation procedures for deicing chemicals and improved sodium chloride. Chappelov, C.C., et al. [1993.eng] 50-875
- Evolution of the ecosystem and biogeography of seas in the European Arctic. Pavlov, D.S., ed. [1994.rus] 50-3088
- Experiment in compiling a review map of anthropogenic degradation of the high-latitude areas of Russia. Serebrianniy, L.R., et al. [1992.eng] 50-3434
- Extreme fire seasons in the forests of Evenkia. Ivanova, G.A., [1995.eng] 50-4700
- Exxon Valdez Oil Spill Restoration Plan. Final environmental impact statement. Exxon Valdez Oil Spill Trustee Council, Anchorage, AK, [1994.eng] 50-369
- Exxon Valdez Oil Spill Restoration Plan. Exxon Valdez Oil Spill Trustee Council, Anchorage, AK, [1994.eng] 50-398
- Fate of oil determinations under arctic conditions; the Komi pipeline oil spill experience. Nadeau, R.J., et al. [1995.eng] 50-5732
- Forest dynamics and disturbance in the temperate rainforests of the Americas. Veblen, T.T., et al. [1996.eng] 50-4065
- Forest fire of May 6, 1987, in the Greater Khingan Range. Lou, Y.H., [1991.ch] 50-5853
- Fresh water in Svalbard fjord ecosystems. Węśłowski, J.M., et al. [1995.eng] 50-4137
- Geobotanical maps as an aid in assessing surface impacts. Everett, K.R., et al. [1994.eng] 50-304
- Geochemical analyses of Exxon Valdez oil spill. Bence, A.E., et al. [1996.eng] 50-6339
- Geography and economy. Volume 5: Ecology of the Baltic region (collected scientific papers). Gladkii, I.U.N., ed. et al. [1992.rus] 50-383
- Geological specifics in the natural dynamics of the subarctic cryolithozone. Oberman, N.G., [1996.rus] 50-6850
- Global climate change adaptation: examples from Russian boreal forests. Dixon, R.K., et al. [1996.eng] 50-5056
- Greenhouse effect and the global environmental changes. Obrebska-Starkel, B., et al. [1991.pol] 50-5003
- Growing perennial grasses on dredging grounds in Southern Yakutia. Petrova, A.N., [1994.rus] 50-288
- Growth response of mosses to simulated subarctic environmental change. Potter, J.A., et al. [1995.eng] 50-3860
- Guide to environmental impact assessment of activities in Antarctica. London. Foreign and Commonwealth Office. South Atlantic and Antarctic Department. Polar Regions Section, [1995.eng] 50-948
- Hearing on arctic coastal plain leasing to petroleum interests. U.S. Congress. House. Committee on Resources, [1995.eng] 50-3455
- Hot ice could contaminate fish. Edwards, R., [1996.eng] 50-4205
- Human impact around polar stations on Fildes Peninsula. Krzyżowska, A., [1993.eng] 50-2189
- Hydrogeochemistry of Fraser River, British Columbia. Cameron, E.M., [1996.eng] 50-5815
- Ice hydraulic investigation for the snow disposal structure, Ottawa River. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1981.eng] 50-1199
- Ice-crystal fogs of central Sakha. Osipov, D.A., [1995.eng] 50-4702
- Icy indicators of global warming. Denniston, D., [1993.eng] 50-3344
- Impact of deicing chemicals on plants in Hokkaido. Miyamoto, S., et al. [1994.jp] 50-2828
- Impact of federal programs on wetlands, Vol.2. U.S. Department of the Interior, [1994.eng] 50-1670
- Impact of fires on mountain sod-taiga soils under larch forests in Mongolia. Krasnoshechekov, I.U.N., [1995.eng] 50-2715
- Impact of iceberg scouring on polar benthic habitats. Gutt, J., et al. [1996.eng] 50-6567
- In situ bioremediation in arctic Canada. Carrs, J.G., et al. [1994.eng] 50-1472
- Indicators of soil polluted by heavy metals. El'kina, G.I.A., et al. [1994.rus] 50-274
- Influence of ocean dredging on Barents Sea biota. Matishov, G.G., et al. [1995.eng] 50-3062
- Influence of pocket gophers on the status of nutrients in alpine soils. Litvak, M.I., et al. [1996.eng] 50-4951
- Initial analyses of Eagle River Flats hydrology and sedimentology. Fort Richardson, Alaska. Lawson, D.E., et al. [1995.eng] 50-392
- Integrated analysis of oil hydrocarbons in a marine environment and in the fat of animals. Khesina, A.I.A., et al. [1991.rus] 50-1316
- Integrated ecosystem research in northern Alaska, 1947-1994. Shaver, G.R., [1996.eng] 50-4840
- International Conference on Global Change and Arctic Terrestrial Ecosystems—recommendations. Arctic Global Change Conference, Oppdal, Norway, Aug. 21-26, 1993. [1993.eng] 50-3331
- Investigation of proposed snow dump facility. Gore & Storrie Limited, Ottawa, Ontario, [1983.eng] 50-1197
- Iron(II) in rainwater, snow, and surface seawater from a coastal environment. Zhuang, G.S., et al. [1995.eng] 50-979
- Komi oil spill—an assessment by a multi-national team. Devenis, P.K., [1995.eng] 50-5731
- Krill biomass variations in West Antarctica, 1981-1989. Godlewska, M., [1993.eng] 50-2186
- Landscape damage by skiing at the Schausinsland in the Black Forest, Germany. Ries, J.B., [1996.eng] 50-4234
- Landscape function and disturbance in arctic tundra. Reynolds, J.F., ed. et al. [1996.eng] 50-4838
- Large volume oil spill on land surface: the Vozey oil field, Russia. Zoltai, S.C., et al. [1995.eng] 50-5733
- Late Holocene record of aeolian and fire activity in northern Québec, Canada. Filion, L., et al. [1991.eng] 50-3304
- Legal means for the protection of the antarctic environment from human activities. Machowski, J., [1993.eng] 50-2181
- Lichen accumulation of airborne metals adjacent to a lead-zinc mine. Pilegaard, K., [1994.eng] 50-5604
- Lichens as an object of technogenic impact. Magomedova, M.A., et al. [1994.rus] 50-267
- Logging effects on an aquatic ecosystem on Vancouver Island. Hetherington, E.D., [1996.eng] 50-4070
- Long range forecasting of avalanche regimes and some ecological changes on Zailiyskiy Alatau. Kondrashov, I.V., et al. [1991.rus] 50-9
- Mathematical model of pollution vectors in the arctic basin. Krapivin, V.F., et al. [1996.eng] 50-3412
- Model of arctic radiation fog trace gas processing. Bergin, M.H., et al. [1996.eng] 50-5764
- Model of effects of global warming of water balance of subarctic forest ecosystems. Kellomäki, S., et al. [1996.eng] 50-4750
- Modeling dry deposition of dust along the Dalton Highway. Lamprecht, R., et al. [1996.eng] 50-4853
- Modelling the release of radioactive waste in the Kara Sea. Timms, S.J., et al. [1995.eng] 50-5059
- Natural cleaning of oiled coarse sediment shorelines in arctic and Atlantic Canada. Owens, E.H., et al. [1994.eng] 50-6231
- Natural resources of the northern polar regions: its use and protection. Demek, J., [1993.eng] 50-2199
- Navigation and the pollution of the coastal zone of Arctic seas. Slevich, S.B., et al. [1991.rus] 50-1319
- New radiochemical procedures for environmental actinide measurements and data quality control. Testa, C., et al. [1995.eng] 50-2344
- Nitrous oxide emission from an agricultural soil subjected to different freeze-thaw cycles. Chen, Y., et al. [1995.eng] 50-5687
- Northern forest plants under the pressure of environmental changes. Laine, K., et al. [1994.eng] 50-3231
- Northern Sea Route: is it a viable marine insurance risk? Gold, E., [1996.eng] 50-4443
- Northern Sea Route; future & perspective. Northern Sea Route; future & perspective. Proceedings of INSROP Symposium. Tokyo, Oct. 1-6, 1995. [1996.eng] 50-4419
- Ocean pollution in the Arctic north and the Russian Far East. Kirk, E.J., ed. [1995.eng] 50-5058
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge, Alaska. Department of Environmental Conservation. Division of Environmental Quality, [1990.eng] 50-3913
- Oil on shorelines and shoreline treatment: a state-of-knowledge review. Owens, E.H., et al. [1996.eng] 50-5560
- Oil pollution in Arctic waters. Futsaeter, G., et al. [1991.eng] 50-3421
- Oil spill risks for Copper River Delta in Alaska. Christensen, F.T., et al. [1996.eng] 50-5556
- Organochlorines in the arctic ecosystem. Jensen, J., [1991.eng] 50-3422
- Paleoecology of Swedish bogs. Segerström, U., et al. [1996.eng] 50-4373
- Parameterizing environmental assessments for oil and gas facility construction. Semenov, L.P., [1991.eng] 50-1765
- Permafrost and global warming: strategies of adaptation. Anisimov, O.A., et al. [1996.eng] 50-5057
- Permafrost soil thawing after forest fires. Swanson, D.K., [1996.eng] 50-5497
- Persistence of white phosphorus particles in sediment. Walsh, M.E., et al. [1995.eng] 50-878
- Petroleum exploration opportunities on the U.S.-Russia Chukchi Sea continental shelf. Warren, T., et al. [1995.eng] 50-2110

Environmental protection

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- Phosphorus in river runoff. Savenko, V.S., et al. [1995.rus] 50-4122
- Photo-registration of pre- and post-breakdown situations in oil pipelines in Siberia. Eliseev, I.U.B., [1996.rus] 50-6858
- Physiological responses of *Pinus sylvestris* on changing carbon dioxide and ozone concentration. Holopainen, T., et al. [1994.eng] 50-3232
- Phyto-recultivation of technologically disturbed lands. Valeeva, E.I., [1994.rus] 50-293
- Plant ecology during desertification of an arctic salt marsh. Srivastava, D.S., et al. [1996.eng] 50-4523
- Plant-vertebrate herbivore interface in arctic ecosystems. Jefferies, R.L., et al. [1995.eng] 50-3905
- Policy issues associated with leasing of the Arctic National Wildlife Refuge, Alaska. Westermeyer, W.E., [1990.eng] 50-1607
- Political, legal and strategic aspects of the Northern Sea Route. Ushakov, A.P., [1996.eng] 50-4455
- Pollution distribution and hydrographic variability of the Kara Sea. Pavlov, V.K., et al. [1995.eng] 50-4557
- Pollution of natural ice in the Arctic and its indications. Ivanov, A.V., [1989.rus] 50-2301
- Potential for greater use of wetlands for waste treatment in northern Canada. Doku, I.A., et al. [1995.eng] 50-361
- Preliminary results of studies of industrial and nuclear contaminants in the Ob and Yenisey rivers and the Kara Sea. Champ, M.A., et al. [1995.eng] 50-5060
- Preventing the pollution of indigenous streams during open pit placer mining. Tsygankov, A.V., et al. [1990.rus] 50-1604
- Prince William Sound intertidal biota—good news and bad news five years later. Houghton, J.P., et al. [1995.eng] 50-5730
- Problems in environmental protection: vol.4. Pavlov, G.F., ed. [1991.rus] 50-437
- Problems in protecting the geological environment: in the example of Eastern Siberia. Pinneker, E.V., ed. [1993.rus] 50-91
- Problems in the ecology of polar regions, vol.2: collected scientific papers. Bogoslovskaya, L.S., ed. [1991.rus] 50-1288
- Problems in the rational use of coastal zones of arctic seas. Sovershaev, V.A., et al. [1991.rus] 50-1299
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 18th, Edmonton, Alberta, June 14-16, 1995. [1995.eng] 50-5715
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 19th, Calgary, Alberta, June 12-14, 1996. [1996.eng] 50-5551
- Proceedings. Arctic and Marine Oilspill Program Technical Seminar, 13th, Edmonton, Alberta, June 6-8, 1990. [1990.eng] 50-466
- Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991. [1991.eng] 50-1696
- Proceedings. International Symposium on Biogeochemistry of Seasonally Snow-covered Catchments, Boulder, CO, July 1-14, 1995. [1995.eng] 50-2391
- Project II.6.2: Environmental safety of navigation. Tsoi, L.G., et al. [1996.eng] 50-4440
- Protection of the vegetation cover in the Far North: problems and prospects. Druzhinina, O.A., et al. [1990.rus] 50-92
- Radioactive contaminants: potential risk to ocean ecosystems. Kelley, J.J., et al. [1996.eng] 50-5906
- Radioecological hazard of ship nuclear reactors sunken in the Arctic. Sivintsev, I.U.V., et al. [1996.eng] 50-5676
- Radioecological studies of radioactive contaminants in Ussury Bay, Sea of Japan. Soifer, V.N., [1995.eng] 50-5061
- Reaction of plant communities to technogenic disturbances in tundras in Yamal. Khutun, O.V., et al. [1994.rus] 50-258
- Reactivating the ecosystems in the Russian Arctic. Zarubin, S.I., et al. [1994.rus] 50-289
- Regionalization of territories according to degree of risk to cryogenic processes. Kuznetsova, I.L., et al. [1996.rus] 50-6396
- Release of volatile halogenated organic compounds by uniaxial cultures of polar macroalgae. Laturnus, F., [1995.eng] 50-1202
- Report on acidification in the arctic countries. Nenonen, M., [1991.eng] 50-3418
- Report on heavy metals. Mel'nikov, S.A., [1991.eng] 50-3419
- Report on radioactivity in the Arctic region. Paakkola, O., [1991.eng] 50-3423
- Report on the proposed snow dumping facilities, Ottawa River. McNeely Engineering Consultants Ltd., Ottawa, Ontario. [1980.eng] 50-1201
- Report on underwater noise. Davis, R.A., et al. [1991.eng] 50-3420
- Research on new Alaskan mining technology. Chamberlain, P.G., [1991.eng] 50-1715
- Risk assessment of offshore oil spills. LaBelle, R.P., [1990.eng] 50-470
- River pollution of Russian northern seas. Rovinskiĭ, F.I.A., et al. [1995.eng] 50-6548
- Road-related disturbances in an arctic watershed. Leadley, P.W., et al. [1996.eng] 50-4856
- Role of industries and environmental effects on corrosion control in the North. Dutta, P.K., [1996.eng] 50-3760
- Role of the large-scale Arctic Ocean circulation in the transport of contaminants. Schlosser, P., et al. [1995.eng] 50-4556
- Searching for ways of stimulating oil biodegradation in soil. Kazakova, E.N., et al. [1994.rus] 50-281
- Shoreline cleanup following the Exxon Valdez oil spill. Owens, E.H., et al. [1990.eng] 50-476
- Shoreline cleanup following the Exxon Valdez oil spill. Teal, A.R., [1990.eng] 50-477
- Shoreline ecology program following the Exxon Valdez oil spill, pt.1. Page, D.S., et al. [1995.eng] 50-3921
- Shoreline ecology program following the Exxon Valdez oil spill, pt.3. Gilfillan, E.S., et al. [1995.eng] 50-3925
- Shoreline impacts in the Gulf of Alaska region following the Exxon Valdez oil spill. Gilfillan, E.S., et al. [1995.eng] 50-3926
- Shoreline oiling conditions in Prince William Sound following the Exxon Valdez oil spill. Neff, J.M., et al. [1995.eng] 50-3923
- Silt fence testing for Eagle River Flats dredging. Henry, K.S., et al. [1995.eng] 50-880
- Simple field screening method for white phosphorus (P₄) in sediment. Walsh, M.E., et al. [1995.eng] 50-2328
- Sites used for disposal of radioactive waste in Alaska. [1994.eng] 50-4943
- Snow disposal sites—the Regional Municipality of Ottawa-Carleton experience. Becking, J.J., [1986.eng] 50-1196
- Snow disposal study for the designated growth centres. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1990.eng] 50-1153
- Snow in the cities—a history of America's urban response. McKelvey, B., [1995.eng] 50-1123
- Snowbed bryophyte tissue composition related to air pollution. Woolgrove, C.E., et al. [1996.eng] 50-4004
- Soil properties beneath ceanothus and pine stands in the eastern Sierra Nevada. Johnson, D.W., [1995.eng] 50-630
- Soil-mediated effects of atmospheric deposition on eastern U.S. spruce-fir forests. Johnson, D.W., et al. [1992.eng] 50-4055
- Some regularities in the formation of algal flora in disturbed tundra ecosystems. Sharipova, M.I.U., et al. [1994.rus] 50-268
- Stability of biogeocoenoses in the Far North. Mel'tser, L.I., [1990.rus] 50-1602
- Stability of tundra ecosystems and forecasting their reaction to anthropogenic transformation. Vil'chek, G.E., [1995.rus] 50-3970
- State of Alaska's participation in spill response and preparedness in the state. Vogt, D., [1992.eng] 50-87
- Stranded oil persistence in cold climates. Humphrey, B., et al. [1990.eng] 50-475
- Studying arctic and subarctic ecosystems of impact regions using remote monitoring methods. Tereshenkov, O.M., et al. [1994.rus] 50-278
- Subsurface Oil in Coarse Sediments Experiments (SOCSEX II). Harper, J.R., et al. [1995.eng] 50-5726
- Summary report on the snow disposal study for Portland, Maine. Woodard & Curran Inc., Consulting Engineers, Portland, ME, [1990.eng] 50-1203
- Symposium on Environmental Toxicology and Risk Assessment, 3rd, Atlanta, GA, Apr. 26-28, 1993. Exxon Valdez oil spill: fate and effects in Alaska waters. [1995.eng] 50-3914
- Synthesis and conclusions from studies of red spruce decline. Johnson, A.H., et al. [1992.eng] 50-4059
- Technogenic dynamics of oil field terrain in the cryolithozone. Popkov, O.N., [1996.rus] 50-6852
- Technogenic land formation around the city of Anadyr'. Kotov, A.N., [1996.rus] 50-6854
- Technological effects on tundra ecosystems and the recultivation of disturbed territory. Sumina, O.I., [1992.rus] 50-3406
- Technological improvement of biological recultivation of soils in Komi. Lobovikov, N.N., et al. [1994.rus] 50-291
- Technological-ecological problems in navigation. Stepanov, A.L., [1991.rus] 50-1318
- Technology adaptation to arctic mineral resource development. Zamoshch, M.N., [1991.eng] 50-1754
- Terrestrial component of the cryosphere. Melnikov, P.A., et al. [1993.eng] 50-5483
- Theoretical model of the transfer of radionuclides (the accident at the Siberian chemical plant). Belov, P.N., [1995.rus] 50-3774
- Tracing radioactive contamination in the Siberian Arctic. Sayles, F.L., et al. [1996.eng] 50-6668
- Transfer of reprocessing wastes from north-west Europe to the Arctic. Kershaw, P., et al. [1995.eng] 50-4559
- Trichloroacetic acid in conifer needles and arboreal lichens in forest environments. Juuti, S., et al. [1996.eng] 50-4206
- Tropical toxins ruin arctic catch. Pearce, F., [1995.eng] 50-968
- Ultraviolet radiation effects on arctic lake water organic chemistry. Scully, N.M., et al. [1996.eng] 50-5820
- Understanding the impact of climate change on mountain ecosystems: an overview. Guisan, A., et al. [1995.eng] 50-1003
- Urban hailstorms: a view from Alberta. Charlton, R.B., et al. [1995.eng] 50-3960
- Use of a Geographical Information System in environmental management in Greenland. Aastrup, P., [1994.eng] 50-302
- Use of geosynthetics to prevent waterfowl white phosphorus poisoning. Henry, K.S., et al. [1995.eng] 50-2865
- Use of mussels to assess bioavailability of hydrocarbons from the Exxon Valdez oil spill. Shigenaka, G., et al. [1995.eng] 50-3920
- Vegetation cover in technogenic regions of Northern Europe. Gruzdev, B.I., et al. [1994.rus] 50-263
- Vegetation in industrial northeastern Yakutia and its recultivation. Mironova, S.I., [1994.rus] 50-266
- Ways of solving problems in the protection of natural complexes in the high Arctic. Belikov, S.E., et al. [1991.rus] 50-1289
- West coast Newfoundland oil spill sensitivity atlas. Dempsey, J., et al. [1995.eng] 50-1468
- What makes permafrost permanent? Schoonmaker, D., [1993.eng] 50-3147
- Winter tests of artillery firing into Eagle River Flats, Fort Richardson, Alaska. Collins, C.M., et al. [1995.eng] 50-391
- XX Polar Symposium. Man impact on polar environment. Polar Symposium, 20th, Lublin, Poland, June 3-5, 1993. [1993.eng] 50-2180
- Environmental protection**
- Achieving protection of the coastal belt of the Taymyr Peninsula and nearby islands. Chernous, V.F., [1991.rus] 50-1293
- Air quality at a zinc/lead mine in arctic Alaska. MacCay, C., et al. [1996.eng] 50-6174
- Air temperature effects on cold weather drilling mud dewatering. Wojtanowicz, A.K., et al. [1991.eng] 50-1708
- Alaska pipeline oil spill contingency plan. Aliyeva Pipeline Service Company, Anchorage, AK, [1991.eng] 50-850
- Alternatives for closure of solid oily waste sites on the North Slope of Alaska. Kellens, B.L., et al. [1991.eng] 50-1709
- Allyeska/SERVS technological innovations for oil spill response. Hillman, S.O., [1996.eng] 50-5552
- Analytical methods to study road construction encroachment on the environment. Ivehammar, P., [1996.swe] 50-6686
- Anchorage, Alaska's wetlands management plan. Salvesen, D.A., [1995.eng] 50-1683
- Another look at oil transportation in and from the arctic environment. Marsden, S.S., Jr., et al. [1991.eng] 50-1711
- Antarctic journal of the United States, Vol.30, No.1-4. U.S. National Science Foundation, [1995.eng] 50-6499
- Anthropogenic impacts on biodiversity in the Arctic. Young, O.R., et al. [1995.eng] 50-3899
- Arctic bioremediation: a case study. Liddell, B.V., et al. [1991.eng] 50-1752
- Arctic Centre news, 1993, No.3. [1993.eng] 50-3599
- Arctic research at San Diego State University. [1996.eng] 50-5573
- Arctic systems: natural environments, human actions, nonlinear processes. International Arctic Science Committee, [1995.eng] 50-5302
- Balancing safety and the environment. Mericas, D., et al. [1994.eng] 50-2123
- Biodiversity of Canadian forests, with particular reference to the west coast forests. Boyle, T.J.B., [1996.eng] 50-4071
- Biological phosphorus removal: effect of low temperature. Kumar, P., et al. [1996.eng] 50-4755
- Biological rehabilitation of disturbed lands in the arctic gas-producing regions. Masalkin, S.D., [1991.eng] 50-1767
- Biological treatment of waste water containing glycols from deicing agents. Nitschke, L., et al. [1996.eng] 50-3619
- Bioremediation of a petroleum-contaminated cryic soil. Walworth, J.L., et al. [1995.eng] 50-781
- Catline rehabilitation and restoration. Bolstad, R., [1971.eng] 50-3245
- Clean-up programme of stations of the Alfred Wegener Institute. Kohnen, H., [1994.eng] 50-4271
- Cold regions engineering research—a strategic plan. Carlson, R.F., ed. [1988.eng] 50-6209
- Command organization on the Severnaya Zemlya archipelago. Petrov, V.N., et al. [1991.rus] 50-1292
- Concepts and criteria of reestablishing natural systems. Tiurin, V.N., [1994.rus] 50-297
- Conflicts and communications in the cryosphere. Osherenko, G., et al. [1990.eng] 50-1662
- Contaminants in the arctic marine environment: priorities for protection. Macdonald, R.W., et al. [1996.eng] 50-5574
- County improves its snow and ice control program. da Cunha, M., [1996.eng] 50-6101
- Creation of high-productive seedling meadows on disturbed arctic lands. Tikhmenev, E.A., [1991.eng] 50-1744
- Cryogenic phenomena in the lithosphere. Gavrilov, A.V., et al. [1996.rus] 50-6352
- Current problems in the Aral Sea and prospects for their solutions. Tsyusarin, A.G., et al. [1991.rus] 50-731
- Developing the U.S. Coast Guard's Airborne Dispersant Delivery System capability. Bleicher, D., et al. [1995.eng] 50-5722
- Development of the North and the problem of recultivation. International Conference on the Development of the North and the Problem of Recultivation, 2nd, Syktyvkar, Apr. 25-28, 1994. [1994.rus] 50-251
- Dirty oil makes a feast for soil bacteria. Kiernan, V., [1996.eng] 50-4872
- Disposal of drilling wastes in permafrost. Prudhoe Bay, Alaska. Hansen, P., et al. [1996.eng] 50-6134
- Drilling wastes management for Alaska's North Slope. Fristoe, B.R., [1991.eng] 50-1723
- Dusting river ice with leaf mulch to aid in ice deterioration. Haehnel, R.B., et al. [1996.eng] 50-6072
- Dynamics of the ecosystem of the Barents Sea. Matishov, G.G., et al. [1991.rus] 50-1295
- Ecologic-geographical basis for monitoring technogenic oil and gas polluted territories in the Usinsk region. Evdokimova, T.V., et al. [1994.rus] 50-260
- Ecological monitoring of territories with oil and gas reserves in the cryolithozone. Antonov-Druzhinin, V.P., et al. [1990.rus] 50-1605
- Ecological problems in the cryogenic-hydrogeological conditions in northwestern Siberia. Petrova, R.G., et al. [1996.rus] 50-6847
- Ecological situation in Russia and environmental protection in Magadan. Chernen'kiĭ, B.I., [1991.rus] 50-439
- Ecologization of technological processes in oil and gas construction in arctic regions. Shishov, V.N., et al. [1990.rus] 50-1606

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- Effect of air pollution on soil invertebrates in the Lapland biosphere reserve. Giliyova, E.V., [1994.rus] 50-286
- Effect of technogenic disturbances on the thermal regime of soils in Central Yakutia. Skriabin, P.N., et al., [1996.rus] 50-6394
- Effect of the popularization of studless tires on the road environment. Mima, H., et al., [1995.jp] 50-6790
- Effects of fire in the taiga on the environment. Louspeich, F.B., et al., [1971.eng] 50-3244
- Effects of widespread use of studless tire on traffic conditions. Horita, N., et al., [1994.jp] 50-2829
- Engineering-ecology safety during the operation of oil and gas facilities. Konstantinov, I.P., [1996.rus] 50-6845
- Enhancing the encounter rate of a prototype weir skimmer. Delozier, M.J., [1995.eng] 50-5724
- Environmental changes in the North under the influence of technogenic factors. Makarova, O.A., [1994.rus] 50-285
- Environmental evaluation of the rebuilding of Signy Station. British Antarctic Survey, [1990.eng] 50-1546
- Environmental protection measures for the West Siberian Arctic and Subarctic. Chistov, S.V., [1991.rus] 50-1298
- Environmental research project for Yamburg gas fields. Chlenov, A.V., [1991.eng] 50-1766
- Environmental safety of construction of gas and oil facilities in arctic regions. Mazur, I.I., et al., [1991.eng] 50-1764
- Escorting and tethering oil tankers in Prince William Sound. Corsini, T.J., [1995.eng] 50-5718
- Experimental studies of the interaction of oil with cryogenic rocks. Ershov, E.D., et al., [1996.rus] 50-6823
- Explore Antarctica. Crossley, L., [1995.eng] 50-230
- Exxon Valdez Oil Spill Restoration Plan. Final environmental impact statement. Exxon Valdez Oil Spill Trustee Council, Anchorage, AK, [1994.eng] 50-369
- Exxon Valdez Oil Spill Restoration Plan. Exxon Valdez Oil Spill Trustee Council, Anchorage, AK, [1994.eng] 50-398
- Field test of waste oil combustion and empty drum cleaning at Alexandra Fiord, NWT. McCourt, J., et al., [1996.eng] 50-5565
- Geo-ecological problems of the oil and gas complex in Yamal. Melnikov, E.S., et al., [1990.rus] 50-1599
- Geocryological studies in arctic regions. Vol.3, Part 1: Environmental protection in the Arctic. Geokriologicheskoe issledovanie v arkticheskikh raionakh: mezhdunarodnyy simpozium, SSSR. Iamburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, August 1989), [1990.rus] 50-1597
- Geography and economy. Volume 5: Ecology of the Baltic region (collected scientific papers). Gladkii, I.U.N., ed, et al., [1992.rus] 50-383
- Guide to environmental impact assessment of activities in Antarctica. London. Foreign and Commonwealth Office. South Atlantic and Antarctic Department. Polar Regions Section, [1995.eng] 50-948
- Hearing on arctic coastal plain leasing to petroleum interests. U.S. Congress. House. Committee on Resources, [1995.eng] 50-3455
- Heat and moisture supply of natural biogeocenoses in the Northern, Subpolar and Polar Urals. Belonenko, G.V., et al., [1994.rus] 50-269
- Impact of federal programs on wetlands, Vol.2. U.S. Department of the Interior, [1994.eng] 50-1670
- Industrial use of natural resources of northeastern USSR and problems of protecting hydrobionts. Kuklin, A.I., [1991.rus] 50-1312
- International Conference on Global Change and Arctic Terrestrial Ecosystems—recommendations. Arctic Global Change Conference. Oppdal, Norway, Aug. 21-26, 1993, [1993.eng] 50-3331
- Ladakh: an update on natural resources. Dhar, U., et al., [1994.eng] 50-5423
- Legal means for the protection of the antarctic environment from human activities. Machowski, J., [1993.eng] 50-2181
- Living Arctic. Uspenskii, S.M., [1987.rus] 50-90
- Management of shoreline protection and treatment operations. Owens, E.H., [1996.eng] 50-5562
- Merging U.S. Canadian arctic areas considered. [1994.eng] 50-942
- Mining engineering reclamation of disturbed land under conditions in the North. Aleksandrov, I.N., et al., [1992.rus] 50-817
- Model of protecting the geological environment in the permafrost region. Kagan, A.A., [1995.eng] 50-343
- Municipal solid waste characterization in a cold remote region. Ogbé, A.A., et al., [1996.eng] 50-6172
- Natural resources of the northern polar regions: its use and protection. Demek, J., [1993.eng] 50-2199
- Necessity and means of reactivating disturbed lands in the North. Kriuchkov, V.V., [1994.rus] 50-253
- New environmental database mapping for oil spill response in Alaska. O'Brien, D.K., et al., [1995.eng] 50-5719
- New protected areas in Russia in the framework of a circumpolar protected area network plan. Prokosh, P., [1995.eng] 50-3169
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge. Alaska. Department of Environmental Conservation. Division of Environmental Quality, [1990.eng] 50-3913
- Oil recovery and nearshore protection in Prince William Sound. Hood, S.D., [1995.eng] 50-5721
- Ottawa firm makes wastewater 'white as snow'. Kneisel, S., [1996.eng] 50-6744
- Parameterizing environmental assessments for oil and gas facility construction. Semenov, L.P., [1991.eng] 50-1765
- Patterns, cause, changes and consequences on biodiversity in arctic and alpine ecosystems. Chapin, F.S., III, et al., [1995.eng] 50-3907
- Petroleum exploration opportunities on the U.S.-Russia Chukchi Sea continental shelf. Warren, T., et al., [1995.eng] 50-210
- Physical environment, its utilization and conservation of the Karakoram and Kunlun Mts. region. Zheng, D., [1992.chi] 50-1483
- Polar regions: a political geography. Chaturvedi, S., [1996.eng] 50-5926
- Polar vision or tunnel vision: The making of Canadian Arctic waters policy. Huebert, R., [1995.eng] 50-4503
- Policy issues associated with leasing of the Arctic National Wildlife Refuge, Alaska. Westermeyer, W.E., [1990.eng] 50-1607
- Possible ways of preventing fallout of carcinogenic hydrocarbons. Bez'azykova, A.N., et al., [1991.rus] 50-1317
- Potential for bioremediation of fuel-contaminated soil in Antarctica. Wardell, I.J., [1995.eng] 50-782
- Potential for integrated waste management in the United States Antarctic Program as a model. Juergens, E.D., [1994.eng] 50-4270
- Practical solution to the problems of biological reclamation in the Far North. Archegova, I.B., et al., [1994.rus] 50-254
- Preventing the pollution of indigenous streams during open pit placer mining. Tsygankov, A.V., et al., [1990.rus] 50-1604
- Primary and secondary containment of hazardous substances in cold regions with HDPE liner. Richards, F.T., et al., [1991.eng] 50-1710
- Problems in environmental protection; vol.4. Pavlov, G.F., ed, [1991.rus] 50-437
- Problems in protecting the geological environment; in the example of Eastern Siberia. Pinkeer, E.V., ed, [1993.rus] 50-91
- Problems in the ecology of polar regions, vol.2: collected scientific papers. Bogoslovskaya, L.S., ed, [1991.rus] 50-1288
- Problems in the rational use of coastal zones of arctic seas. Sovershaev, V.A., et al., [1991.rus] 50-1299
- Problems of protection and restoration of land resources in the Komi Republic. Ermakov, A.A., et al., [1994.rus] 50-252
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar. 18th, Edmonton, Alberta, June 14-16, 1995, [1995.eng] 50-5715
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar. 19th, Calgary, Alberta, June 12-14, 1996, [1996.eng] 50-5551
- Proceedings. International Arctic Technology Conference. Anchorage, Alaska, May 29-31, 1991, [1991.eng] 50-1696
- Project II.6.2: Environmental safety of navigation. Tsai, L.G., et al., [1996.eng] 50-4440
- Protected areas and conservation of rare endemic plants in the Himalaya. Rawat, G.S., [1994.eng] 50-5422
- Protecting tundra ecosystems in oil extraction regions. Solov'ev, V.A., et al., [1994.rus] 50-255
- Protection of relic associations on arctic islands and the Chukotskiy tundra. Urtsev, B.A., [1991.rus] 50-1307
- Protection of the vegetation cover in the Far North: problems and prospects. Druzhinina, O.A., et al., [1990.rus] 50-92
- Rational methods of using and reactivating agricultural terrain in Northeastern Russia. Pugachev, A.A., et al., [1994.rus] 50-287
- Rational use of natural resources and protection of the zone of algae macrophytes in a northern region. Makarov, V.N., [1991.rus] 50-1311
- Reactivating the ecosystems in the Russian Arctic. Zarubin, S.I., et al., [1994.rus] 50-289
- Reestablishing the trophic function of soils in disturbed territories in the North. Popov, A.I., et al., [1994.rus] 50-275
- Reestablishment and protection of biodiversity in the European taiga. Anufriev, V.M., [1994.rus] 50-284
- Regional system of protected natural areas in the north of Western Siberia. Pokrovskaya, I.V., [1995.eng] 50-3170
- Regionalization of territories according to degree of risk to cryogenic processes. Kuznetsova, I.L., et al., [1996.rus] 50-6396
- Review of bioremediation experience in Alaska. Kellems, B.L., et al., [1994.eng] 50-1473
- Review of select exploration and development activity in state nearshore areas. Hansen, J., [1995.eng] 50-6305
- River ice control and fish habitat restoration: mutual interests and benefits. Lever, J.H., et al., [1995.eng] 50-3121
- Road-related disturbances in an arctic watershed. Leadley, P.W., et al., [1996.eng] 50-4856
- Role of geomorphological analysis in coastal environmental protection measures. Finarov, D.P., et al., [1992.rus] 50-386
- Safe operation of arctic offshore drilling systems in the United States. Regg, J., et al., [1995.eng] 50-216
- Sea ice over-flooding and oil spills in the Mackenzie Delta. Webb, R., [1995.eng] 50-5720
- Searching for ways of stimulating oil biodegradation in soil. Kazakova, E.N., et al., [1994.rus] 50-281
- Shoreline ecology program following the Exxon Valdez oil spill, pt.1. Page, D.S., et al., [1995.eng] 50-3921
- Shoreline oiling conditions in Prince William Sound following the Exxon Valdez oil spill. Neff, J.M., et al., [1995.eng] 50-3923
- Siberian oil eating bacteria. [1991.eng] 50-4378
- Ski slope vegetation in central Honshu, Japan. Tsuyuzaki, S., [1995.eng] 50-1861
- Some aspects of the protection of water-bog areas in European northeastern USSR. Mineev, I.U.N., [1991.rus] 50-1291
- State of Alaska's participation in spill response and preparedness in the state. Vogt, D., [1992.eng] 50-87
- Strategy for the protection of pine crops in territories being reactivated. Iurkina, E.V., et al., [1994.rus] 50-282
- Studying arctic and subarctic ecosystems of impact regions using remote monitoring methods. Tereshenkov, O.M., et al., [1994.rus] 50-278
- Swedish building research in Antarctica. Swedish Council for Building Research, [1992.eng] 50-1419
- Symposium on Antarctic Logistics and Operations, 6th. Proceedings. Symposium on Antarctic Logistics and Operations, 6th, Rome, Italy, Aug. 29-31, 1994, [1994.eng] 50-4267
- Technological improvement of biological reclamation of soils in Komi. Lobovikov, N.N., et al., [1994.rus] 50-291
- Tests clear snow, path for use of liquid anti-icing in northwest. Deep, D., et al., [1995.eng] 50-1954
- U.S. arctic policy aims for circumpolar cooperation. Senseney, R., [1995.eng] 50-955
- United States arctic research plan: Biennial revision: 1996-2000. Meyers, C.E., et al., [1995.eng] 50-3243
- Use and protection of ground water from depletion and pollution (Magadan). Elinek, L.I.A., [1991.rus] 50-440
- Use of a Geographical Information System in environmental management in Greenland. Aastrup, P., [1994.eng] 50-302
- Use of dispersants in broken ice. Brown, H.M., et al., [1996.eng] 50-5553
- Use of geosynthetics to prevent waterfowl white phosphorus poisoning. Henry, K.S., et al., [1995.eng] 50-2865
- Utilization and protection of natural resources in the Hengduan Mountains region. Li, M.S., [1992.chi] 50-1482
- Waste management concept at the German winter station Neumayer. El Naggar, S., et al., [1994.eng] 50-4269
- Ways of solving problems in the protection of natural complexes in the high Arctic. Belikov, S.E., et al., [1991.rus] 50-1289
- WinOil: an oil spill model for Windows 95. McGillivray, D.G., et al., [1996.eng] 50-5535
- XX Polar Symposium. Man impact on polar environment. Polar Symposium, 20th, Lublin, Poland, June 3-5, 1993, [1993.eng] 50-2180
- Environmental tests**
- Accretion of monodisperse droplets on a thin wire. Prodi, F., et al., [1996.eng] 50-5393
- Acid aerosols in rime on Kyushu, Japan. Nagafuchi, O., et al., [1995.eng] 50-4957
- Acid pollutants in air and precipitation/deposition at the Sudeten Mountains, Poland. Kmiec, G., et al., [1995.eng] 50-4954
- Aerosols composition over the Arctic Ocean. Shevchenko, V.P., et al., [1995.eng] 50-2061
- Airborne measurements of atmospheric methane over oil fields in western Siberia. Tohjima, Y., et al., [1996.eng] 50-6509
- Alaskan tundra sedge response to fertilizer treatment. Shaver, G.R., et al., [1995.eng] 50-1469
- ALOMAR—a new facility for middle atmosphere research at arctic latitudes. Thrane, E.V., et al., [1995.eng] 50-4261
- Alternatives for closure of solid oily waste sites on the North Slope of Alaska. Kellems, B.L., et al., [1991.eng] 50-1709
- Analysis of long term sulfate and nitrate budgets in a Rocky Mountain basin. Baron, J.S., et al., [1995.eng] 50-2417
- Arctic atmospheric composition during episodic air pollution. Lejenäs, H., et al., [1996.eng] 50-6710
- Arctic dwarf shrub response to simulated climatic warming. Michelsen, A., et al., [1996.eng] 50-5770
- Arctic marine mammals as integrators and indicators of mercury in the Arctic. Wagemann, R., et al., [1995.eng] 50-881
- Arctic research at San Diego State University. [1996.eng] 50-5573
- Arsenic pollutants in Pechora Sea sediments. Loring, D.H., et al., [1995.eng] 50-1829
- Artificial ice tests for long insulator strings. Wu, D., et al., [1996.eng] 50-5341
- Atmospheric aerosol in the Finnish Arctic. Virkkula, A., et al., [1995.eng] 50-4952
- Barents Sea biomass reaction to gas condensate pollution. Gorbacheva, E.A., et al., [1996.eng] 50-6581
- Benthic sediment hydrocarbon sources following the Exxon Valdez oil spill. Page, D.S., et al., [1995.eng] 50-3915
- Breakthrough loads of floating ice sheets: small-scale tests with urea model ice. Sodhi, D.S., [1995.eng] 50-2939
- Buildings with short piles and ventilated foundations in permafrost. Zhu, L.N., et al., [1995.chi] 50-5625
- Cation trace analysis of snow and firn samples from high-alpine sites by ion chromatography. Döschner, A., et al., [1995.eng] 50-594
- Chemical and toxicological evaluation of water quality following the Exxon Valdez oil spill. Neff, J.M., et al., [1995.eng] 50-3917
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al., [1995.eng] 50-1863
- Chemical characterization of individual aerosol particles in central Siberia. Van Malderen, H., et al., [1996.eng] 50-4966
- Chemical correlates of Hg and methyl-Hg in northern Wisconsin lake waters under ice-cover. Wauas, C.J., et al., [1995.eng] 50-2125
- Chernobyl fallout in Bering Sea sediments. Kusakabe, M., et al., [1988.eng] 50-4635
- Cleansing role of clay-oil flocculation in shoreline sediments following an oil spill. Bragg, J.R., et al., [1995.eng] 50-3918
- Contemporary status of bottom fauna in the Chernaya Bay (Novaya Zemlya Archipelago). Matishov, G.G., et al., [1996.eng] 50-4147

Environments

- Current water quality in Cook Inlet, Alaska, study. University of Alaska. Environment and Natural Resources Institute. [1995,eng] 50-4400
- Deposit of atmospheric biphenyls in the Canadian Arctic. Gregor, D., et al. [1996,eng] 50-6521
- Detection of air pollution at a Svalbard mountain station. Beine, H.J., et al. [1996,eng] 50-5205
- Dirty oil makes a feast for soil bacteria. Kiernan, V., [1996,eng] 50-4872
- Distribution of pesticide residues in arctic coastal ecosystems. Bright, D.A., et al. [1995,eng] 50-4747
- Dry depositional loading of nitrogen to an alpine snowpack. Niwot Ridge, Colorado. Cress, R.G., et al. [1995,eng] 50-2396
- Effect of the environment on the bearing capacity of a road. Final report. Part 1. Pfister, R., et al. [1979,fr] 50-2451
- Effects of acidification on plankton biomass in high mountain lakes. Engle, D., et al. [1995,eng] 50-2149
- Effects of smelter emissions on pine tree frost hardiness. Sutinen, M.L., et al. [1996,eng] 50-4309
- Environmental factors influencing the biodegradation of petroleum hydrocarbons in cold seawater. Siron, R., et al. [1995,eng] 50-651
- Estimation of aerosol deposition to a snow surface. Sharma, M., et al. [1995,eng] 50-3011
- Evaluation of the changes in regional wintertime deposition in Finland during 1976-1993. Sovieri, J., et al. [1995,eng] 50-4956
- Experimental studies on ice forces on conical structures using segmented model. Kato, K., et al. [1996,eng] 50-5875
- Experimental study of ice load on conical structures. Ohia, M., et al. [1996,eng] 50-5877
- Experimental study of tearing toughness K_{IIC} for fresh water ice. Li, G.W., et al. [1995,eng] 50-2974
- Fingerprinting hydrocarbons in the biological resources of the Exxon Valdez spill area. Bence, A.E., et al. [1995,eng] 50-3916
- Galloping on overhead transmission test lines with artificial snow. Ozawa, A., et al. [1996,eng] 50-5379
- Genotoxicity of snow in the Montreal metropolitan area. White, P.A., et al. [1995,eng] 50-1567
- Geochemical analyses of Exxon Valdez oil spill. Bence, A.E., et al. [1996,eng] 50-6339
- Growth responses of an alpine grassland to elevated CO_2 . Schappi, B., et al. [1996,eng] 50-5771
- Halocarbon seasonal variations in the arctic troposphere. Yokouchi, Y., et al. [1996,eng] 50-5612
- Handling practice effects on soil sample chemistry. Hewitt, A.D., [1996,eng] 50-5962
- Heavy metal concentrations in peat profiles from the high Arctic. Headley, A.D., [1996,eng] 50-3721
- Hydraulic conductivity of frozen granular soils. Andersland, O.B., et al. [1996,eng] 50-4048
- Ice shedding effects on an overhead transmission line. Jamaledine, A., et al. [1996,eng] 50-5337
- Influence of forest fire aerosols on sampling of polar atmospheres. Polissar, A.V., et al. [1996,eng] 50-5206
- Ion chemistry controls for a Chinese river. Williams, M.W., et al. [1995,eng] 50-2604
- Labile dissolved forms of heavy metals in the Kara Sea waters. Kravtsov, V.A., et al. [1995,eng] 50-3534
- Laboratory study of microwave backscattering from saline ice. Porco, R.L., [1994,eng] 50-683
- Laboratory tests of oil fate in cold water, ice and waves. Timco, G.W., et al. [1995,eng] 50-51
- Lake acidification during mountain snowmelt. Stoddard, J.L., [1995,eng] 50-4076
- Lead isotopic ratios in Greenland and antarctic snow and ice. Chisholm, W., et al. [1995,eng] 50-1256
- Lichen accumulation of airborne metals adjacent to a lead-zinc mine. Pilegaard, K., [1994,eng] 50-5604
- Low-temperature environmental testing system design—Part 1. Lynde, P.G., et al. [1996,eng] 50-2457
- Manganese and other trace elements in urban snow near an expressway. Loranger, S., et al. [1996,eng] 50-5776
- Mechanisms of ice gouging. Kioka, S., et al. [1995,eng] 50-194
- Model test of ground temperature variation of embankment. Ye, B.Y., et al. [1989,chi] 50-1396
- Monitoring organic pollutants in the Arctic in 1992. Fellin, P., et al. [1996,eng] 50-4359
- Movement of fuel spills in the Ross Ice Shelf. Tumeo, M.A., et al. [1994,eng] 50-5216
- Nutrient and persistent pollutant deposition on the Bothnian Bay ice and snow fields. Rahm, L., et al. [1995,eng] 50-1650
- Ozone deposition in a subarctic woodland, pt.1. Munger, J.W., et al. [1996,eng] 50-6641
- Periodic variations in air-water gas exchange of Arctic Ocean insecticide pollutants. Jannunen, L.M., et al. [1995,eng] 50-1862
- Pesticide degradation in an arctic lake and watershed. Falconer, R.L.M., et al. [1995,eng] 50-1131
- Physical modeling of ice jams. Wuebben, J.L., [1995,eng] 50-789
- Prince William Sound, Alaska beach tar ball origins. Kvenvolden, K.A., et al. [1995,eng] 50-1864
- Pu, ^{137}Cs and excess ^{210}Pb in Russian arctic sediments. Baskaran, M., et al. [1996,eng] 50-5606
- Radionuclide tracer profiles on Arctic Ocean ice islands. Smith, J.N., et al. [1995,eng] 50-4560

- Relation between gouging force and the shape of ice floe. Terai, Y., et al. [1996,eng] 50-5887
- Response of alpine vegetation canopy to experimental wind barrier. Smith, B., et al. [1996,eng] 50-3786
- Responses of arctic polar desert plant litter chemistry to climatic changes. Robinson, C.H., et al. [1995,eng] 50-5100
- Road surfaces under severe climatic conditions. Pigois, M.L., [1980,fr] 50-2444
- Runoff composition in a bedrock catchment watershed. Clow, D.W., et al. [1995,eng] 50-2415
- Scaling snowdrift development rate. Lever, J.H., et al. [1995,eng] 50-3114
- Scaling snowdrift development rate. Lever, J.H., et al. [1995,eng] 50-6047
- Scavenging rates affecting Arctic Ocean radionuclide distributions. Cochran, J.K., et al. [1995,eng] 50-4562
- Seasonal cycle of C_2-C_5 hydrocarbons over the Baltic Sea and northern Finland. Laurila, T., et al. [1996,eng] 50-5607
- Sedimentation and mixing rates of radionuclides in Barents Sea sediments off Novaya Zemlya. Smith, J.N., et al. [1995,eng] 50-4561
- Shear strength of ice rubble in laboratory tests. Lehmus, E., et al. [1995,eng] 50-181
- Shoreline ecology program following the Exxon Valdez oil spill, pt.1. Page, D.S., et al. [1995,eng] 50-3921
- Shoreline ecology program following the Exxon Valdez oil spill, pt.2. Boehm, P.D., et al. [1995,eng] 50-3924
- Shoreline impacts in the Gulf of Alaska region following the Exxon Valdez oil spill. Gilfillan, E.S., et al. [1995,eng] 50-3926
- Snowbed bryophyte tissue composition related to air pollution. Woolgrove, C.E., et al. [1996,eng] 50-4004
- Snowpack evidence of air pollution in Lapland and the Kola Peninsula. Lindroos, A.J., et al. [1995,eng] 50-4955
- Solid phase extraction of nitroaromatics from water. Jenkins, T.F., et al. [1995,eng] 50-1977
- Sources of acidity in fresh snowfall elemental concentrations. Baisden, W.T., et al. [1995,eng] 50-2126
- Spectrometric detection of chloride ions in snow. Vanchikova, E.V., et al. [1995,eng] 50-3791
- Streamwater quality variations in a Colorado alpine environment. Caine, N., [1995,eng] 50-4189
- Subarctic lake pollution by gold mine arsenic effluent. Bright, D.A., et al. [1996,eng] 50-4207
- Sulfur hexafluoride—a powerful new atmospheric tracer. Maiss, M., et al. [1996,eng] 50-5608
- Surface ozone at high latitudes. Theodorsen, A., et al. [1996,eng] 50-4871
- Symposium on Environmental Toxicology and Risk Assessment, 3rd. Atlanta, GA. Apr. 26-28, 1993. Exxon Valdez oil spill: fate and effects in Alaska waters. [1995,eng] 50-3914
- Temperature elevation effects on arctic soil insects. Coulson, S.J., et al. [1996,eng] 50-3529
- Thickness and fracture toughness of freshwater ice. Chang, C., et al. [1995,eng] 50-2975
- Tibetan alpine ecosystem response to climatic changes. Zhang, Y.Q., et al. [1996,eng] 50-5495
- Tracing radioactive contamination in the Siberian Arctic. Sayles, F.L., et al. [1996,eng] 50-6668
- Transfer of European coastal pollution to the Arctic: radioactive tracers. Dahlgaard, H., [1995,eng] 50-1136
- Use of mussels to assess bioavailability of hydrocarbons from the Exxon Valdez oil spill. Shigenaka, G., et al. [1995,eng] 50-3920
- UV-B-tolerance of alpine and arctic *Daphnia*. Zellmer, I.D., [1995,eng] 50-1972
- Variable leaf respiration rates of arctic and subarctic plant leaves. Collier, D.E., [1996,eng] 50-4368
- Velocity dependence of ice failure load in a 2-dimensional ship model. Adachi, M., et al. [1996,eng] 50-5878
- Wear resistance of concrete pavements to studded tires. Hultqvist, B.A., et al. [1996,eng] 50-3847
- Yield conditions of an assembly of discrete ice floes. Sayed, M., et al. [1995,eng] 50-182

Environments

See [also]: Alpine landscapes; Arctic landscapes; Deserts; Forest land; Landscape types; Littoral zone; Ocean environments; Planetary environments; Steppes; Subarctic landscapes; Taiga; Tundra

Eolian soils

- Aeolian facies belts in the Taklimakan Desert. Li, B.S., et al. [1995,eng] 50-4127
- Buried loess in the Bohai Sea bottom and exposed along the coast. Liu, J.P., et al. [1995,chi] 50-4125
- Changes in the Late Cenozoic environment of the Gonghe Basin in Qinghai. Xu, S.Y., [1986,chi] 50-1983
- Chinese loess accumulation compared to Greenland ice core climatology. An, Z.S., et al. [1995,eng] 50-1065
- Depositional sequence of the Quaternary period in Xinjiang. Peng, X.L., [1985,chi] 50-2005
- Desert and lake deposits in the Taklimakan Desert. Endo, K., et al. [1991,jpn] 50-1423
- Determination of total carbonate content in some representative loess-paleosol profiles. Gerei, L., et al. [1995,eng] 50-1043
- Effect of orbital variations on past eolian deposits. Kutzbach, J.E., [1989,eng] 50-5410
- Electron scanning of Quaternary deposit grain shape. Molnar, B., et al. [1995,eng] 50-1040
- Eolian dust in deep sea sediments from arctic pack ice. Pirman, S., et al. [1989,eng] 50-5408

Equipment

- Forms of unusual patterned ground: examples from the Falkland Islands, South Atlantic. Wilson, P., [1995,eng] 50-2718
- Geochemistry of niveo-eolian sediments in Spitsbergen. Gorniak, A., et al. [1993,eng] 50-2200
- Geomorphological effects of the actions of eolian processes in Oscar II Land (Spitsbergen). Sinkiewicz, M., [1989,pol] 50-2896
- Geomorphological studies on the arid regions of northwest China. Yang, X.P., [1991,ger] 50-2770
- Granulometric investigations of loess profiles in Hungary. Kis, E., [1995,eng] 50-1039
- Japan-China Joint Study on Desertification, Apr. 1990-Mar. 1991. Japan. Science and Technology Agency. Research and Development Bureau (Kagaku gijutsucho Kenkyu kaihatsukyoku). [1991,jpn] 50-1421
- Late Holocene record of aeolian and fire activity in northern Québec, Canada. Filion, L., et al. [1991,eng] 50-3304
- Late Quaternary flux of eolian dust to the pelagic ocean. Rea, D.K., et al. [1994,eng] 50-1242
- Loess distribution, origin, and chronology. Pécsi, M., [1990,ger] 50-1794
- Loess layer and the palaeoclimate of northern piedmont of Tian Shan. Zhang, H.Y., et al. [1985,chi] 50-2003
- Magnetic climatology: mineral magnetism and the ice ages. Heller, F., et al. [1996,ger] 50-4743
- Method for the study of Quaternary environmental evolution of the loess plateau in China. Zhang, Z.H., et al. [1995,eng] 50-1045
- Morphoscopy and morphometry of quartz grains from loess and buried soil layers. Velichko, A.A., et al. [1995,eng] 50-1038
- Paleoclimatic models of Chinese loess and paleosol sequences. Thompson, R., et al. [1995,eng] 50-2542
- Paleoenvironmental implications of modern periglacial eolian deposits. Dijkman, J.W.A., et al. [1991,eng] 50-5172
- Periglacial landforms and sediments. Semmel, A., [1990,ger] 50-1793
- Periglacial overlying strata in the Bavarian forest. Völkel, J., [1993,eng] 50-1679
- Plan for the Japan-China joint study of the Taklimakan Desert. Japan. Science and Technology Agency. Research and Development Bureau. [1991,jpn] 50-1422
- Preliminary study on fossil dunes in the Qaidam Basin. Zhong, D.C., [1986,chi] 50-1990
- Quaternary loess and stratigraphy in Inner Mongolia. Dong, G.R., et al. [1986,chi] 50-1991
- Quaternary of the loess plateau. Sun, J.Z., ed. et al. [1991,chi] 50-2010
- Radiocarbon dating of glacial moraines in California. Dorn, R.J., [1996,eng] 50-6098
- Sedimentary structures of cold-climate coastal dunes, eastern Hudson Bay, Canada. Ruz, M.H., et al. [1995,eng] 50-3862
- Simulation of Quaternary loess deposit magnetic profiles. Anderson, R.S., et al. [1996,eng] 50-4584
- Snow and water chemistry of a headwater alpine basin, Urumqi River, Tian Shan, China. Liu, F.J., et al. [1995,eng] 50-2413
- Stereo satellite image of sand particle transport in the Taklimakan Desert. Nagashima, H., [1991,jpn] 50-1433
- Study on soil erosion in Inner Mongolia. Zhao, Y., et al. [1989,chi] 50-3269
- Terrestrial molluscs as indicators of global aeolian dust fluxes during glacial stages. Rousseau, D.D., [1992,eng] 50-2552
- Transport of sand particles and dune shifting by wind in the Taklimakan Desert. Nagashima, H., [1991,jpn] 50-1431
- Transport of sand particles and dune shifting by wind in the Taklimakan Desert. Okumura, T., et al. [1991,jpn] 50-1432
- Two-year record of eolian sedimentation in the Wind River Range, Wyoming, U.S.A. Dahms, D.E., et al. [1996,eng] 50-5496
- Ventifacts as palaeo-wind indicators in southern Scandinavia. Schlyter, P., [1996,eng] 50-6698
- Weathering of aeolian dusts in alpine snows. Delmas, V., et al. [1996,eng] 50-4588

Equipment

- Airfoil with integral de-icer using overlapped tubes. Rauckhorst, R.L., [1993,eng] 50-2338
- Alternative energy at the Juan Carlos I Station. Castellvi, J., et al. [1994,eng] 50-4277
- Antarctic alternative energy summary. Chiang, E., U.S. National Science Foundation. Office of Polar Programs. [1994,eng] 50-4278
- Antarctic Walk Environmental Research Expedition, 1991-1993. Yoshikawa, K., ed. et al. [1995,eng] 50-4381
- Anti-skid chain for vehicle tires. Franklin, C.R., [1992,eng] 50-2246
- Apparatus and method for powered thermal friction adjustment. Tabar, W.J., [1995,eng] 50-3462
- Artificial snow making equipment as seen in the patents. Seki, M., [1995,jpn] 50-1001
- Assembly for studying physical processes during drilling. Antipin, I.N., et al. [1992,rus] 50-796
- Automated measuring system ASI-500-1 for studying the properties of frozen ground. Ivanov, A.I., et al. [1983,rus] 50-318
- Automobile traction enhancement device. Morelli, R.L., [1995,eng] 50-3470
- Belt track for track-laying vehicles and snowmobiles. Wiesner, H.H., et al. [1991,eng] 50-2239
- Chain dredger for working flooded placer deposits. Knyschenko, N.S., [1992,rus] 50-806
- Condensation on cooled surfaces of optical devices at the cosmic conditions. Drobyshev, A., et al. [1992,eng] 50-624

Erie, Lake

Evapotranspiration

- Detector for indicating ice formation on the wing of an aircraft. Luukkala, M., [1995.eng] 50-3472
- Development of a mobile garage/vehicle servicing facility. Haley scientific station. Smith, A.L., et al. [1994.eng] 50-4268
- Device for applying an insulation cover on overhead power lines. Gonchar, M.I., et al. [1929.rus] 50-1919
- Device for creating a spring ice jam. Ilarov, N.A., et al. [1992.rus] 50-1903
- Device for determining ice adhesion. Gnatiuk, V.V., et al. [1992.rus] 50-1931
- Device for maintaining ice-free areas around a floating dredging pump. Barskii, B.L., et al. [1992.rus] 50-1941
- Device for preventing water from freezing. Turutin, B.F., et al. [1992.rus] 50-1950
- Device for protecting a pipeline from freezing. Diachenko, K.S., et al. [1992.rus] 50-1916
- Device for pushing broken ice ahead of a ship or the like. Donderi, D.C., [1990.eng] 50-2241
- Device for snow retention. Khuzin, V.Kh., [1992.rus] 50-1927
- Device for towing a seismographic bar in ice-covered seas. Sokholov, I.I., et al. [1989.rus] 50-1658
- Diversity of modern antarctic vessels. Mäkinen, E., et al. [1994.eng] 50-4280
- Electromagnetic wave attenuating and deicing structure. Webster, S.D., et al. [1991.eng] 50-2343
- Gravitational platform and the means for its assembly. Ionin, V.S., et al. [1992.rus] 50-1904
- Ice breaking device for an offshore platform. Mishin, V.N., et al. [1992.rus] 50-1949
- Ice dam melting system. Tourangeau, D.R., et al. [1995.eng] 50-3481
- Ice detection apparatus for transportation safety. Stolarczyk, L.G., et al. [1995.eng] 50-3475
- Ice zipper. Tetrault, M., [1987.eng] 50-2240
- Ice-breaking device frees structures. [1989.eng] 50-5650
- Improving the working capacity of rock-tunneling machines in frozen placer deposits. Egorov, I.K., et al. [1992.rus] 50-810
- Insulating structure. Ericsson, B., [1989.eng] 50-2340
- Method of and apparatus for removing debris from the floppal medium. Johnson, P.R., et al. [1995.eng] 50-3464
- Method of calculating the sensitivity and instrument accuracy of borehole temperature equipment. Pakulin, V.A., [1983.rus] 50-317
- Modular articulated track for automotive vehicles. Remy, C., et al. [1993.fre] 50-2229
- New technology of diamond drilling of exploratory wells in Yakutia. Skriabin, R.M., et al. [1992.rus] 50-795
- Physical-technical problems in the development of deposits in the North. Zarovniyev, B.N., ed. [1992.rus] 50-793
- Pneumatic regeneration system of a filtration substance in filters. Tomides, M., et al. [1962.cze] 50-2228
- Prevention of icing in the intakes of aerospace propulsors. Scott, J.L., et al. [1991.eng] 50-2236
- Producing energy for polar stations from the wind-water temperature gradient. LeGoff, H., et al. [1994.eng] 50-4275
- Question of using highly durable steels in the metal construction of load bearing machines. Pustovoi, V.N., [1992.rus] 50-759
- Removal of hydrocarbons from the *Bahia Paraiso*. Arangio, I.A., [1994.eng] 50-4272
- Ribbon track for tracked vehicles and snowmobiles. Wiesner, H.H., et al. [1990.ger] 50-2500
- Self-regulating deicer valve. Phillips, R.W., II., [1988.eng] 50-2244
- Snow guard. Smeja, G.C., et al. [1995.eng] 50-3474
- Splash board for car bodies. Szabo, Z., [1989.eng] 50-2341
- Thermal anti-icing of aircraft structures. Arnold, M.J., et al. [1993.eng] 50-2234
- Towards new energy systems for antarctic stations. Guichard, A., [1994.eng] 50-4274
- Using "Navstar" to determine ship maneuvering elements. Dudnik, S.A., [1993.rus] 50-17
- Ventilated cap system for the ridge of a roof. Sells, G.L., [1995.eng] 50-3466
- Warning device for precipitation. Romanov, E.V., et al. [1992.rus] 50-1906
- Ways of creating equipment and technology for the mining of mineral deposits in the North. Sleptsov, A.E., [1992.rus] 50-794
- Wheels that provide lateral friction on ice. Alderman, R.L., et al. [1995.eng] 50-3460
- Windshield wiping device for automobiles. Kühbauch, G., [1993.ger] 50-2389
- Working element of a tool with lifting-percussion action. Glebov, V.D., et al. [1992.rus] 50-1915
- Workshop on Antarctic Air Transport Networks. Council of Managers of National Antarctic Programs. [1995.eng] 50-6270
- See [also]: Airborne equipment; Construction equipment; Electric equipment; Electronic equipment; Infrared equipment; Machinery; Military equipment; Portable equipment; Railroad equipment; Rescue equipment; Telemetering equipment; Test equipment
- Erie, Lake**
- Lake Erie ice scour study.** Lake, K., [1991.eng] 50-491
- Erosion**
- Climate change impact on hydrology and cryology. Selthun, N.R., [1995.eng] 50-1005
- Effect of climate change on erosion and nutrient transport from arable land. Kallio, K., et al. [1994.eng] 50-3196
- Effect of introduced disturbances on the development of thermo-erosional processes. Glavatskikh, V.V., et al. [1996.rus] 50-6404
- Glacial or non-glacial origin for the Bigganjarga tillite. Finnmark, northern Norway. Jensen, P.A., et al. [1996.eng] 50-4395
- Impact of Cenozoic uplift on offshore Norwegian hydrocarbon exploration. Doré, A.G., et al. [1996.eng] 50-5327
- Migration of chemical elements and ions in the seasonal thaw layer and upper layer of perennially frozen rocks. Leibman, M.O., et al. [1996.rus] 50-6848
- Pleistocene-Holocene fluxes are not the Earth's norm. Hay, W.W., [1994.eng] 50-1237
- Satellite regolith frozen ground collapse as solar system geological paradigm. Moore, J.M., et al. [1996.eng] 50-6588
- Stability of sublittoral, fine-grained sediments in a subarctic estuary. Amos, C.L., et al. [1996.eng] 50-4044
- Thermo-abundant and thermo-erosion of the shores of arctic seas as a system of exogenous processes. Voskresenskii, K.S., et al. [1991.rus] 50-1300
- See [also]: Avalanche erosion; Bank protection (waterways); Glacial erosion; Ice erosion; Shore erosion; Snow erosion; Soil erosion; Water erosion; Wind erosion
- Errors**
- See [also]: Accuracy
- Estonia**
- Decomposition of soil surface lichens in mountain tundra and taiga. Parinkina, O.M., et al. [1995.eng] 50-3875
- Rate of carbon accumulation in boreal mires. Tolonen, K., et al. [1994.eng] 50-3223
- Estuaries**
- ²³⁴Th as an indicator of particulate fluxes in the Kara Sea. Kuptsov, V.M., et al. [1995.eng] 50-3544
- Biogeochemistry of sediment diagenesis at Kara Sea-Yenisey River boundary layer. Lein, A.I.U., et al. [1995.eng] 50-3535
- Bottom sediment chemical composition of the Kara Sea and estuaries. Gurvich, E.G., et al. [1995.eng] 50-3545
- Chemical composition of suspended sediments in the Lena River and its mixing zone. Gordeev, V.V., et al. [1995.eng] 50-2081
- Coastal environments of the western Kara and eastern Barents Seas. Pirman, S.L., et al. [1995.eng] 50-4558
- Differentiation of Ob and Yenisey waters in the Kara Sea by alkalinity and silicate. Stunzhas, P.A., [1995.eng] 50-6688
- Distribution of oxygen and nutrients in the Laptev Sea in summer. Pivovarov, S.V., et al. [1995.eng] 50-2079
- Dissolved inorganic carbon in the Kara Sea and in the mouths of the Ob and Yenisey Rivers. Makkaveev, P.N., [1995.eng] 50-3533
- Distribution of metals in Laptev Sea pore waters. Langner, C., [1995.eng] 50-2103
- Distribution of river run-off in the Laptev Sea: the environmental effect. Dmitrenko, I.A., et al. [1995.eng] 50-2077
- Distribution of river water and suspended sediments in the river deltas of the Laptev Sea. Ivanov, V.V., et al. [1995.eng] 50-2080
- Distribution of sea-ice algae in Hudson Bay. Monti, D., et al. [1996.eng] 50-5211
- Distribution of trace elements in the Laptev Sea. Hölemann, J.A., et al. [1995.eng] 50-2098
- Dynamic model of the pelagic ecosystem of the Kara Sea. Lebedeva, L.P., et al. [1995.eng] 50-3540
- Evaluation of controls on iceberg-calving glaciers. Wiles, G.C., et al. [1995.eng] 50-3324
- Formammina in glaciomarine sediments of arctic fjords. Korsun, S.A., et al. [1995.eng] 50-939
- Freshwater impact on Hudson Bay ecosystems under sea ice, pt. 1. Ingram, R.G., et al. [1996.eng] 50-4019
- Freshwater impact on Hudson Bay ecosystems under sea ice, pt. 2. Legendre, L., et al. [1996.eng] 50-4020
- Freshwater impact on Hudson Bay ecosystems under sea ice, pt. 3. Fortier, L., et al. [1996.eng] 50-4021
- Geochemistry of Lena River suspended sediments. Rachold, V., [1995.eng] 50-2095
- Glacier-fed delta at a Barents Sea fjord. Laberg, J.S., et al. [1996.eng] 50-5921
- Hydrobiological research in the Lena polynya. Gukov, A.I.U., [1995.eng] 50-2089
- Hydrochemical characteristics of the Kara Sea. Makkaveev, P.N., et al. [1995.eng] 50-3532
- Ice-thermal regime at front deltas of rivers of the Laptev Sea. Nalimov, I.U.V., [1995.eng] 50-2070
- Influence of runoff from land on the distribution of hydrologic characteristics of the Kara Sea. Burenkov, V.I., et al. [1995.eng] 50-3531
- Labile dissolved forms of heavy metals in the Kara Sea waters. Kravtsov, V.A., et al. [1995.eng] 50-3534
- Laptev Sea organic carbon surface sediments. Stein, R., et al. [1995.eng] 50-2097
- Lipid geochemistry of the Kara Sea bottom sediments. Beliaeva, A.N., et al. [1996.eng] 50-4867
- Marginal filter of the ocean. Lisitsyn, A.P., [1995.eng] 50-3542
- Marine record of the Russell Fjord outburst flood, Alaska. U.S.A. Cowan, E.A., et al. [1996.eng] 50-6260
- Mesoplankton in the east Kara Sea and the Ob and Yenisey River estuaries. Vinogradov, M.E., et al. [1995.eng] 50-3539
- Natural and technogenic water and sediment supply to the Laptev Sea. Alabian, A.M., et al. [1995.eng] 50-2094
- On the interannual variability of precipitation and runoff in the Mackenzie drainage basin. Björnsson, H., et al. [1995.eng] 50-2737
- Organic sedimentation in an arctic delta. Peulvé, S., et al. [1996.eng] 50-5819
- Outflow of Lena River water to the Laptev Sea. Golovin, P.N., et al. [1995.eng] 50-2075
- Particle fluxes in the Kara Sea and Ob and Yenisey estuaries. Lisitsyn, A.P., et al. [1995.eng] 50-3543
- Plume of the Yukon River in relation to the oceanography of the Bering Sea. Dean, K.G., et al. [1989.eng] 50-3933
- Primary production and chlorophyll in the Kara Sea in September 1993. Vederikov, V.I., et al. [1995.eng] 50-3536
- Reassessment of the Eurasian river input of water, sediment, major elements, and nutrients to the Arctic Ocean. Gordeev, V.V., et al. [1996.eng] 50-5693
- Relative sea level in the area of Matane (Québec) from deglaciation to present day. Dionne, J.C., et al. [1995.fre] 50-5036
- River pollution of Russian northern seas. Rovinskiy, F.I.A., et al. [1995.eng] 50-6548
- River-coastal sea ice interaction model: Mackenzie River Delta. Searcy, C., et al. [1996.eng] 50-5265
- Russian oceanographic expedition in the Kara Sea. Lisitsyn, A.P., et al. [1995.eng] 50-3530
- Russian-German cooperation: Laptev Sea system. Kassens, H., ed. et al. [1995.eng] 50-2059
- Sedimentary environment of the Laptev Sea: preliminary results of the TRANSDRIFT II Expedition. Dehn, J., et al. [1995.eng] 50-2100
- Sedimentology and geomorphology of fjords. Syvitski, J.P.M., et al. [1995.eng] 50-1116
- Some lithological-geochemical features of modern bottom sediments of the Laptev Sea shelf. Iakovlev, A.V., [1995.eng] 50-2101
- Stability of sublittoral, fine-grained sediments in a subarctic estuary. Amos, C.L., et al. [1996.eng] 50-4044
- Stable carbon isotope ratios in the waters of the Laptev Sea/Sep. 94. Erlenkeuser, H., et al. [1995.eng] 50-2082
- Storm surges in Canadian waters. Murty, T.S., et al. [1995.eng] 50-1854
- Study of the calcareous microfauna from Laptev Sea sediments. Bauch, H.A., et al. [1995.eng] 50-2102
- Surface sediment mineralogy of the Laptev Sea. Wahsner, M., [1995.eng] 50-2099
- Taku Glacier, southeast Alaska, U.S.A.: Late Holocene history of a tidewater glacier. Motyka, R.J., et al. [1996.eng] 50-4335
- Technogenic cryomorphogenesis and pollution of river estuaries in the Arctic basin. Grigorev, M.N., et al. [1991.rus] 50-1303
- Tracing radioactive contamination in the Siberian Arctic. Sayles, F.L., et al. [1996.eng] 50-6668
- See [also]: Deltas
- Europe**
- Climate changes in Europe during the last glacial/interglacial transition. Walker, M.J.C., [1995.eng] 50-502
- Problems of dead ice and ground ice in the central part of the north European plain. Böse, M., [1995.eng] 50-508
- Evaporation**
- Alcohols in interstellar ice mantles. Charnley, S.B., et al. [1995.eng] 50-5101
- Climate change and water resources in Vuoksi watershed. Vehviläinen, B., et al. [1994.eng] 50-3195
- Evaporation from a small lake in the continental Arctic using multiple methods. Gibson, J.J., et al. [1994.eng] 50-5694
- Evaporation rate, free energy, and entropy of amorphous water at 150 K. Speedy, R.J., et al. [1996.eng] 50-5920
- Explicit cloud physics parameterization for operational numerical weather prediction. Schultz, P., [1995.eng] 50-1529
- Heterogeneous chemistry of polar stratospheric clouds. Mather, J.H., et al. [1990.eng] 50-4726
- Hydrologic role of soils and ecological methods of regulating water resources. Voronkov, N.A., [1995.eng] 50-3879
- Microclimatic models, estimation of solar radiation and evaporation over land surfaces. Heikinheimo, M., et al. [1994.eng] 50-3186
- Seeding implications of ice crystal growth in the turbulent boundary layer. Levy, G., et al. [1984.eng] 50-4496
- Snow cover effect on the heat and water balance in northwestern China. Kondo, J., et al. [1996.jp] 50-6729
- Snowmelt, global warming, and water level of Lake Biwa. Ikebuchi, S., [1992.eng] 50-3029
- Test of variant soil moisture conditions on the Canadian Global Forecast Model. Delage, Y., et al. [1995.eng] 50-1528
- Unusual PSCs observed by lidar in Antarctica. Stefanutti, L., et al. [1995.eng] 50-753
- See [also]: Evapotranspiration; Ice sublimation; Snow evaporation; Sublimation; Transpiration
- Evapotranspiration**
- Arctic Flux Study: a regional view of trace gas release. Weller, G., et al. [1995.eng] 50-3809
- Estimation of daily evapotranspiration from one time-of-day thermal infrared temperature. Li, F.Q., et al. [1990.chi] 50-6662
- Impacts of climate variability and change on Canadian wetlands. Woo, M.K., [1992.eng] 50-4805
- Initial assessment of multi-scale measures of CO₂ and H₂O flux in the Siberian taiga. Hollinger, D.Y., et al. [1995.eng] 50-3810

Excavation

- Model of effects of global warming of water balance of subarctic forest ecosystems. Kellomäki, S., et al. [1996.eng] 50-4750
- Regional snow and water balance models. Xu, C.Y., et al. [1996.eng] 50-5835
- Simulation of soil moisture variations reflecting the hydrological cycle. Akinremi, O.O., et al. [1996.eng] 50-5918
- Variable leaf respiration rates of arctic and subarctic plant leaves. Collier, D.E., [1996.eng] 50-4368
- Excavation**
- Characteristics of working in permafrost in Transbaikalia. Kozlov, V.A., et al. [1993.rus] 50-111
- Device for loosening frozen ground before excavation. Mashev, V.A., et al. [1992.rus] 50-1942
- Device for maintaining ice-free areas around a floating dredging pump. Barski, B.L., et al. [1992.rus] 50-1941
- Disposal of drilling wastes in permafrost, Prudhoe Bay, Alaska. Hansen, P., et al. [1996.eng] 50-6134
- Drilling waste disposal in the Arctic using below-grade freeze-back. Maund, T.E., et al. [1991.eng] 50-1697
- Effect of frozen ground strength on hardening performance of the Hard Mobile Launcher. Chamberlain, E.J., et al. [1989.eng] 50-3042
- Experimental analysis of breakup of kimberlites using charges of low density explosives. Bondarenko, I.F., [1992.rus] 50-800
- Feasibility study of foxhole excavation by compressed gas blasting. Mellor, M., et al. [1971.eng] 50-5757
- Hydromechanization of earthwork under the conditions in the Far East and Siberia. Mel'nikov, I.T., [1995.rus] 50-3077
- Impact fracturing of frozen ground and rocks. Fedulov, A.I., et al. [1996.eng] 50-4740
- Large-diameter glory hole drilling: the evolution from 12- to 20-ft diameter. Shields, R.G., [1991.eng] 50-1738
- Mechanism of breaking up a bench and optimizing the parameters of borehole-blasting excavation. Mikhailov, A.G., [1992.rus] 50-804
- Method of excavating in frozen ground. Mukhametdinov, Kh.K., et al. [1992.rus] 50-1944
- Ocean bottom trenching by an Icelandic glacier. Björnsson, H., [1996.eng] 50-6252
- Physical-technical problems in the development of deposits in the North. Zarovniaev, B.N., ed. [1992.rus] 50-793
- Preparation for excavation of frozen sands by using high frequency currents. Mal'kov, I.U.K., [1992.rus] 50-819
- Using Rutschblock testing to avoid avalanches. Abromait, D., [1995.eng] 50-2863
- See [also]: Earthwork; Pits (excavations); Rock excavation; Trenching; Tunneling (excavation)
- Expansion**
- See [also]: Thermal expansion
- Expeditions**
- 100th anniversary of the Nansen expedition (1888-1899). Matalewski, S., [1989.pol] 50-2929
- 14th Spitsbergen-Hornsund 91/92 Expedition. Gizejewski, J., [1993.eng] 50-2218
- Almost forgotten expedition. Maksimova, O., [1995.rus] 50-3803
- Alone: the classic polar adventure. Byrd, R.E., [1995.eng] 50-2851
- Antarctic Walk Environmental Research Expedition. 1991-1993. Yoshikawa, K., ed. et al. [1995.eng] 50-4381
- Arctic lichen collections from 1959 excursion. Thomson, J.W., et al. [1992.eng] 50-6522
- Arktis 1993: report on the field phase with examples of measurements. Brümmer, B., ed. [1993.eng] 50-4945
- Background to Aleksandr Vasil'yevich Kolchak's expedition to Bennett Island, 1903. Barr, W., [1992.eng] 50-3432
- Background to the German expedition to Clearwater Fiord, Baffin Island. Barr, W., [1992.eng] 50-3428
- Cartography of the Northern Sea Route, 15th-19th centuries. Okhuizen, E., [1996.eng] 50-4484
- Centennial of the Norwegian Polar expedition on board of the FramR. 1893-1896. Matalewski, S.M., [1993.eng] 50-2183
- Circumpolar Expedition Mapfre'92 to the Arctic. De Larra-mendi, R.H., et al. [1993.spa] 50-2781
- Contributions to polar geomorphology by the German Spitsbergen expeditions 1990-1992. Blümel, W.D., [1993.eng] 50-1672
- CTD measurements in the Greenland Sea, 1993. Budéus, G., et al. [1996.eng] 50-5105
- Ecosystem dynamics of the Bering and Chukchi Seas. Tsyan, A.V., [1995.eng] 50-3608
- Ecosystem of the sea ice in Antarctica. Rakusa-Suszczewski, S., [1989.pol] 50-2875
- Expedition ARKTIS-VII/3 of RV *Polarstern* in 1990. Müller, H., ed. et al. [1996.eng] 50-4326
- Expedition ARKTIS-XI/2 of RV *Polarstern* in 1995. Krause, G., ed. [1996.eng] 50-5104
- Expedition of the Murmansk Marine Biology Institute to Franz Josef Land and Novaya Zemlya, 1991. Matishov, G.G., [1992.rus] 50-730
- Expedition to Bennett Island in search of Baron Toll, 1903. Kolchak, A.V., [1992.eng] 50-3433
- Expedition to the Far North on the Yamal Peninsula in 1928-1929. Evladov, V.P., [1992.rus] 50-88
- Explore Antarctica. Crossley, L., [1995.eng] 50-230
- Fifteen years of arctic acoustics and ice camps. Von der Heydt, K., et al. [1996.eng] 50-6667
- Filchner's expedition to the Weddell Sea. Filchner, W., [1994.eng] 50-397

- First Poles in Antarctica—the beginnings of the history of our Antarctic studies. Zalewski, S.M., [1989.pol] 50-2872
- Geodetic support for Spitsbergen expedition. Rawiel, P., et al. [1994.ger] 50-1576
- German expedition of the First International Polar Year to Cumberland Sound, Baffin Island, 1882-83. Abbas, H., [1992.eng] 50-3429
- History of the exploration of the vascular flora of Greenland. Pringle, J.S., [1995.eng] 50-3413
- Ice shelf structure at Maudheim Station. Schytt, V., [1958.eng] 50-6420
- Ice: the antarctic diary of Charles F. Passel. Passel, C.F., [1995.eng] 50-3927
- Icebreaker transit analysis for a voyage across the Arctic Ocean. Brigham, L.W., [1996.eng] 50-4460
- Information booklet on the Arctic and Antarctic Research Institute (Russia). Mustafin, N.V., [1993.eng] 50-19
- International Glaciological Greenland Expedition, 1959/60. Hofmann, W., [1958.ger] 50-5745
- Japanese glaciological environmental studies in the arctic cryosphere. Watanabe, O., [1995.jp] 50-3507
- JARE-33 activities in summer 1991-1992 and winter 1992. Fukuchi, M., et al. [1996.jp] 50-6348
- Living Arctic. Uspenski, S.M., [1987.rus] 50-90
- Log of the *Scotia* Expedition, 1902-4. Bruce, W.S., [1992.eng] 50-3578
- Movement of the ice shelf at Maudheim. Swithinbank, C., [1958.eng] 50-6525
- National Antarctic Research Program. Cervellati, R., [1994.ita] 50-2823
- Northern exposure—traversing Baffin Island's icy reaches. Dunn, J., [1995.eng] 50-4358
- O.Y.U. Shmidt's scientific ideas on the strategy of developing the Arctic. Shevelev, M.I., [1992.eng] 50-3430
- Progress in glaciology and Quaternary glaciation research in China since 1978. Shi, Y.F., et al. [1995.eng] 50-4510
- Report of the Hokkaido University 3rd Alaska glacier survey, June 17-July 28, 1975. Higashi, A., [1976.jp] 50-482
- Report on the 30th Soviet Antarctic Expedition. Sovetskaya antarktikeskaya ekspeditsiya, [1992.rus] 50-144
- Report on the Czechoslovak biological diving expedition "Arctic '92". Duvříl, Z., [1993.eng] 50-2217
- Research work on the Kolka Glacier and other glaciers in Northern Ossetia in 1971. Rotoktev, K.P., et al. [1972.rus] 50-549
- Snow studies at Maudheim. Schytt, V., [1958.eng] 50-6418
- Snow studies inland. Schytt, V., [1958.eng] 50-6419
- Svalbard—field excursion in arctic marine biology, June 5-14, 1995. Weissenberger, J., ed. et al. [1995.eng] 50-1554
- Topographic and thematic maps of the Spitsbergen Expedition, 1990-1992. Brunner, K., et al. [1994.ger] 50-1575
- Tracing radioactive contamination in the Siberian Arctic. Sayles, F.L., et al. [1996.eng] 50-6668
- U.S. Army research camps in northwest Greenland. Tobisson, W., [1968.eng] 50-3882
- See [also]: Traverses
- Expenses**
- See [also]: Cost analysis
- Experimentation**
- Development of the JARE deep ice coring system (II). Narita, H., et al. [1995.jp] 50-1693
- Electrical conductivity measurements in ice. Sugiyama, K., et al. [1995.eng] 50-2575
- High-resolution mass spectrometry for ice core trace element determination. Shimamura, T., et al. [1995.eng] 50-2576
- HIPLEX-1: experimental design and response variables. Smith, P.L., et al. [1984.eng] 50-4918
- HIPLEX-1: statistical evaluation. Mielke, P.W., Jr., et al. [1984.eng] 50-4919
- Ice loss. Rice, D., [1996.eng] 50-5083
- Laboratory exercise introducing glacial geomorphology. Harbor, J.M., et al. [1995.eng] 50-3861
- Making an ice core. Kopaska-Merkel, D.C., [1995.eng] 50-1150
- Exploding wires**
- Dynamic testing of frozen soil sample with an exploding wire system. Fyfe, I.M., [1968.eng] 50-2029
- Exploration**
- \$1.5 billion development plan set for BP's Alaskan Beaufort Sea fields. [1996.eng] 50-5290
- 1995 annual report on Alaska's mineral resources. Schneider, J.L., ed. [1995.eng] 50-5664
- Acquisition and processing of remote sensing data on ore deposits. Guo, H.D., et al. [1993.chi] 50-2380
- Alone: the classic polar adventure. Byrd, R.E., [1995.eng] 50-2851
- Arctic not so costly and design ice loads falling. [1990.eng] 50-5586
- Arctic operators seek warmth in a cold climate. Cottrill, A., [1986.eng] 50-5653
- Beaufort Sea Planning Area Oil and Gas Lease Sale 144. Final environmental impact statement. U.S. Department of the Interior. Minerals Management Service. Alaska Outer Continental Shelf Region, [1996.eng] 50-4552
- Carboniferous siliceous rock and its relation to metallic sulfide deposits in northern Xinjiang. Yang, W.H., et al. [1993.chi] 50-2358
- CASP annual report—1 February 1995-31 January 1996. Cambridge Arctic Shelf Programme, [1996.eng] 50-4794
- Challenges for the development of hydrocarbon fields in the Barents Sea. Gudmestad, O.T., et al. [1995.eng] 50-209

Exploration

- Chemistry of salt minerals and their depositional environment in the Qaidam Basin. Dong, J.H., [1986.chi] 50-1988
- Conglomerate identification and mapping leads to development success in a mature Alaskan field. O'Sullivan, T.P., et al. [1991.eng] 50-1756
- Core preservation to aid arctic oil reservoir evaluation. MacGregor, K.W., et al. [1991.eng] 50-1740
- Cretaceous/Tertiary marine stratigraphy and petroleum potential. Tarim Basin. Tang, T.F., et al. [1989.chi] 50-1847
- Danish Polar Center annual report, 1994. Dansk Polarcenter, [1995.eng] 50-659
- Diamond exploration in glaciated terrain: a Russian perspective. Golubev, I.U.K., [1995.eng] 50-1092
- Electrical and magnetic methods for gold exploration. Shi, K.F., et al. [1993.chi] 50-2387
- Environment and resources of the Qinghai-Xizang Plateau. Liu, T.S., [1992.chi] 50-1476
- Environmental impact of offshore oil exploration in the Arctic. Mosbech, A., et al. [1995.eng] 50-2964
- Exploration and development of oil and gas field on the shelf of Sakhalin. Bogdanovich, S.M., et al. [1995.eng] 50-168
- Exploratory oil drilling in the Beaufort Sea. Cottrill, A., [1986.eng] 50-5651
- Features of potash sedimentation in the upper salt layer (S₄) in the Qarhan Salt Lake. Li, B.X., et al. [1992.chi] 50-1487
- Future of oil and gas in northern Alaska. Bird, K.J., et al. [1995.eng] 50-5642
- Genetic types of granitoids and their mineralization in northern Xinjiang. Wang, Z.G., et al. [1993.chi] 50-2359
- Geochemistry of the Ulungur-Zhaisangpo tectonic melange belt. Liu, W., et al. [1993.chi] 50-2366
- Geological evolution and diagenetic mineralization in Xinjiang. Tu, G.Z., [1993.chi] 50-2351
- Geological structure of the Laptev Ocean shelf. Kim, V.I., et al. [1995.eng] 50-2108
- Geology and mineralogy of some important nonmetal deposits. Cao, J.C., et al. [1993.chi] 50-2379
- Geology of the Red Mountain gold deposit in British Columbia. Greig, C.J., et al. [1994.eng] 50-84
- Geophysical model of ore-bearing rock in Xinjiang. Zhang, S.Z., et al. [1993.chi] 50-2383
- Geophysical prospecting methods for Cu-Ni minerals. Zhang, S.Z., et al. [1993.chi] 50-2381
- Giving full play to the mineral resources, to promote the economic development in Xizang. Cao, Y.G., et al. [1992.chi] 50-1485
- Glacial deposit geochemistry at a Manitoba mining site. Nielsen, E., et al. [1991.eng] 50-3911
- Gold mineralization in western Junggar. Shen, Y.C., et al. [1993.chi] 50-2371
- Hearing on arctic coastal plain leasing to petroleum interests. U.S. Congress. House. Committee on Resources, [1995.eng] 50-3455
- History of the exploration of the vascular flora of Greenland. Pringle, J.S., [1995.eng] 50-3413
- Impact of Cenozoic uplift on offshore Norwegian hydrocarbon exploration. Doré, A.G., et al. [1996.eng] 50-5327
- Implication of glacial dispersal patterns for mineral exploration. McClenaghan, M.B., et al. [1996.eng] 50-6515
- Isotope geochemistry and crustal evolution of northern Xinjiang. Hu, A.Q., et al. [1993.chi] 50-2353
- Kennecott's Diavik project: diamond exploration enters the final stage. [1996.eng] 50-2447
- Late Cenozoic geology and environmental evolution of the Qaidam Basin in Qinghai. [1986.chi] 50-1981
- Log of the *Scotia* Expedition, 1902-4. Bruce, W.S., [1992.eng] 50-3578
- Logistics in remote areas in Greenland. Andersson, T.I.H., et al. [1995.eng] 50-2967
- Mafic intrusive body bearing Cu-Ni mineralization in Xinjiang. Yuan, Q.L., et al. [1993.chi] 50-2376
- Magmatic activities and its relation to tectonic setting and gold mineralization in western Junggar. Jin, C.W., et al. [1993.chi] 50-2360
- Metallogenic geology and geochemistry related to Ertix volcanism. Liu, T.G., et al. [1993.chi] 50-2375
- Metallogenic mechanism of Cu in Altay. Li, Z.C., [1993.chi] 50-2374
- Metallogenic mechanism of tungsten deposit in Alatau. Wang, K.R., et al. [1993.chi] 50-2373
- Moss species discovered in Arctic Canada. Hedderston, T.A., et al. [1992.eng] 50-6523
- Multilaterals, horizontal wells could access remote Russian oil reserves. Hazen, T., [1996.eng] 50-6575
- Muon μ -particle: a new technique for mineral exploration. Zhou, D.Z., [1993.chi] 50-2382
- New advances in solid earth sciences in northern Xinjiang. Tu, G.Z., ed. [1993.chi] 50-2350
- New improvement of mathematical geology applying in gold mineralization. Shen, B.M., et al. [1993.chi] 50-2386
- New regional mapping project in Vernon map area, British Columbia. Thompson, R.I., et al. [1994.eng] 50-85
- North Sea and Norwegian Sea hydrocarbon exploration. Alberti, Di Catenaja, C., et al. [1994.ita] 50-2818
- Norway enters exploration groups with improved licensing terms. [1995.eng] 50-2537
- Norwegian petroleum resources with focus on challenges and opportunities in the Barents Sea. Aamodt, F.R., [1995.eng] 50-174
- Oil and gas fields of Qinghai and Xizang. Gu, S.S., ed. [1990.chi] 50-2177

Explosion effects

- Ophiolitic belts and their genetic environment in western Junggar. Zhang, C., et al. [1993.chi] 50-2355
- Origin of sylvites and salts in the Qaidam Basin. Yang, Q., [1986.chi] 50-1987
- Overlapping mineralization of Karatongki Cu-Ni deposit. Zhan, X.Z., [1993.chi] 50-2377
- Paleogeography of Cenozoic lithofacies and their evolution in the Qaidam Basin. Yang, Z.L., [1986.chi] 50-1982
- Paleozoic petroleum source rocks in Saskatchewan and Manitoba. Osadetz, K.G., et al. [1995.eng] 50-232
- Pb isotope province and geochemical prospecting in northern Xinjiang. Zhu, B.Q., et al. [1993.chi] 50-2354
- Pb-Zn-Au deposits in Carboniferous strata of northern Xinjiang. Yang, W.H., et al. [1993.chi] 50-2357
- Petroleum exploration opportunities on the U.S.-Russia Chukchi Sea continental shelf. Warren, T., et al. [1995.eng] 50-210
- Petroleum in glacially-related sandstones of Gondwana: a review. Potter, P.E., et al. [1995.eng] 50-3252
- Petroleum resources of the Mackenzie Delta and Beaufort Sea. Dixon, J., et al. [1994.fre] 50-3319
- Petroleum-producing sequences in the Phanerozoic deposits of the arctic islands. Daniushchevskaya, A.I., [1996.eng] 50-5704
- Plate and terrain tectonics of northern Xinjiang. Cao, R.L., et al. [1993.chi] 50-2352
- Preliminary stratigraphy from Lansang map area, Yukon Territory. Roots, C., et al. [1994.eng] 50-80
- Principal mineral resources and their distribution on the Qinghai-Xizang Plateau. Xu, Z.Y., et al. [1991.chi] 50-2295
- Proceedings of the first symposium on the Qinghai-Xizang Plateau. China Society of Qinghai-Xizang Plateau Research. Symposium, 1st. Mar. 1990. [1992.chi] 50-1475
- Proceedings. International Arctic Technology Conference. Anchorage, Alaska, May 29-31, 1991. [1991.eng] 50-1696
- Quaternary geology of the Buchans area, Newfoundland: implications for mineral exploration. Klassen, R.A., et al. [1996.eng] 50-6634
- Rare earths in the granitoids of the Altay region. Zhao, Z.H., et al. [1993.chi] 50-2368
- Regional geochemistry of Alatau region. Li, S.G., et al. [1993.chi] 50-2369
- Regional metallogenic model of Alatau region. Man, F.S., et al. [1993.chi] 50-2372
- Remote sensing for mineral exploration in northern Xinjiang. Guo, H.D., et al. [1993.chi] 50-2384
- Research on clay minerals in salt lakes of China. Xu, C., [1993.chi] 50-1850
- Review of select exploration and development activity in state nearshore areas. Hansen, J., [1995.eng] 50-6305
- Rivers and lakes of Xizang. Guan, Z.H., et al. [1984.chi] 50-1846
- Russia opens far east offshore. [1993.eng] 50-5440
- Safe operation of arctic offshore drilling systems in the United States. Regg, J., et al. [1995.eng] 50-216
- Saline-lake resources on the Qinghai-Xizang Plateau and their developed prospect. Zheng, M.P., [1992.chi] 50-1486
- Salt lakes in Xizang. Zheng, X.Y., et al. [1988.chi] 50-1848
- Salt lakes of Inner Mongolia. Zheng, X.Y., et al. [1992.chi] 50-1849
- Salt lakes of Qaidam Basin. Zhang, P.X., et al. [1987.chi] 50-1845
- Seismic reflection results from an ice island over the arctic continental shelf. Cox, T.P., et al. [1990.eng] 50-3763
- Sequence of glacial ice flows in Abitibi-Timiskaming. Veillette, J.J., et al. [1996.eng] 50-2499
- Shaft and Tunnel Access (SATAC) concepts for developing petroleum reserves. Haskin, C.A., et al. [1991.eng] 50-1742
- Shell to break Chukchi ice. [1989.eng] 50-5644
- Sino-Kazakhstan-Mongolia border area tectonics from satellite data. Yang, D.C., et al. [1993.chi] 50-2385
- Some geological problems regarding salt lakes on the Qinghai-Xizang Plateau. Zhang, P.X., [1986.chi] 50-1985
- Stable isotopic character of mineralization of some deposits in northern Xinjiang. Zhang, G.X., et al. [1993.chi] 50-2378
- Stratigraphic and structural setting of mineral deposits in British Columbia. Davies, A.G.S., et al. [1994.eng] 50-83
- Submarine cryolithozone of Russian Arctic off-shore: problems of hydrocarbon recovery. Kul'pin, L.G., et al. [1995.eng] 50-2961
- Sulfide occurrences in northwestern British Columbia. Gunning, M.H., et al. [1994.eng] 50-82
- Surprising success for Arctic lease sale. [1988.eng] 50-4967
- Tectonic framework of the Teslin region, southern Yukon Territory. Gorday, S.P., et al. [1994.eng] 50-81
- Trace element geochemistry of volcanic rocks along the Ertix River. Mei, H.J., et al. [1993.chi] 50-2365
- U.S.G.S. Geotechnical Investigation—Beaufort Sea, Alaska-1979. Vol.1. Bruggers, D.E., et al. [1979.eng] 50-3313
- Explosion effects**
- 110,000-yr record of explosive volcanism from the GISP2 (Greenland) ice core. Zielinski, G.A., et al. [1996.eng] 50-4575
- Behavior of crystals in kimberlite and ice under the action of shock waves. Beloborodov, V.N., et al. [1995.eng] 50-1206
- Dynamic testing of frozen soil samples with an exploding wire system. Fyfe, I.M., [1968.eng] 50-1668
- Electrolytical processes in dirty planetary ices. Drobyshevskii, E.M., et al. [1995.eng] 50-655
- Explosives in frozen ground. Roberts, A., [1971.eng] 50-5763
- No iridium anomaly after the 1908 Tunguska impact: evidence from a Greenland ice core. Rasmussen, K.L., et al. [1995.eng] 50-2741

- Pipe rigidity as a failure index under explosive loads. Abd El Halim, A.O., et al. [1996.eng] 50-5047
- Study of blast action from extended explosive charges in frozen cohesive rocks. Kiprianov, G.O., et al. [1992.rus] 50-803
- Underwater explosions beneath ice. Tanglis, E., et al. [1989.eng] 50-3836
- Volcanic eruption at a New Zealand ski resort prompts reevaluation of hazards. Ruapehu Surveillance Group. [1996.eng] 50-5501
- Winter tests of artillery firing into Eagle River Flats, Fort Richardson, Alaska. Collins, C.M., et al. [1995.eng] 50-391
- See [also]: Blasting; Ice blasting
- Explosives**
- Adsorption-desorption of TNT and RDX in soils. Xue, S.K., et al. [1995.eng] 50-1686
- Analytical methods for explosives contamination on army installations. Jenkins, T.F., et al. [1995.eng] 50-1094
- Churchill Falls development. Canadian Industries Limited. Explosives Technical Marketing Services. [1971.eng] 50-5738
- Comparison criteria for environmental chemical analyses of split samples sent to different laboratories. Grant, C.L., et al. [1996.eng] 50-5912
- Composite report on drilling and blasting of permafrost at Ferris Mine. Lang, L.C., [1964.eng] 50-5762
- Development of a field method for ammonium picrate/picric acid in soil and water. Thorne, P.G., et al. [1995.eng] 50-2440
- Development of colorimetric field screening methods for munitions compounds in soil. Jenkins, T.F., et al. [1995.eng] 50-1095
- Dredging Eagle River Flats: remediation study in an active impact area. Walsh, M.R., [1996.eng] 50-5913
- Driving the diversion tunnel at Manic 3. Canadian Industries Limited. Explosives Technical Marketing Services. [1972.eng] 50-5737
- Experimental analysis of breakup of kimberlites using charges of low density explosives. Bondarenko, I.F., [1992.rus] 50-800
- Explosives in frozen ground. Roberts, A., [1971.eng] 50-5763
- Feasibility study of foxhole excavation by compressed gas blasting. Mellor, M., et al. [1971.eng] 50-5757
- Features of borehole blasting excavation of placers in the Far North. Dobrovolskii, G.N., et al. [1992.rus] 50-802
- Holding-time estimates for soils containing explosives. Grant, C.L., et al. [1995.eng] 50-944
- Improvements in and relating to emulsion explosives. Cechanski, M., [1993.eng] 50-2237
- New permafrost blasting method developed at Asbestos Hill. Lang, L.C., [1976.eng] 50-5749
- Physical-technical problems in the development of deposits in the North. Zarovniaev, B.N., ed. [1992.rus] 50-793
- Problems of borehole-blasting excavation in open pit mining. Zarovniaev, B.N., [1992.rus] 50-801
- Results of a survey on gas avalanche triggers (GAZEX). Rapin, F., et al. [1995.fre] 50-4670
- Sample representativeness: The missing element in explosives site characterization. Jenkins, T.F., et al. [1996.eng] 50-5960
- Simple field screening method for white phosphorus (P₄) in sediment. Walsh, M.E., et al. [1995.eng] 50-2328
- Slope engineering of benches using low density explosives in interstitial contours. Shebarshov, A.A., et al. [1992.rus] 50-799
- Solid phase extraction of nitroaromatics from water. Jenkins, T.F., et al. [1995.eng] 50-1977
- Study of blast action from extended explosive charges in frozen cohesive rocks. Kiprianov, G.O., et al. [1992.rus] 50-803
- Transport of TNT and RDX in soils. Selim, H.M., et al. [1995.eng] 50-1688
- Use of geosynthetics to prevent waterfowl white phosphorus poisoning. Henry, K.S., et al. [1995.eng] 50-2865
- Winter tests of artillery firing into Eagle River Flats, Fort Richardson, Alaska. Collins, C.M., et al. [1995.eng] 50-391
- Exposure**
- Initiation and development of natural ground ice exposures. Canadian Arctic. Lewkowicz, A.G., [1990.eng] 50-1633
- See [also]: Cold exposure; Orientation; Slope orientation
- Extraterrestrial ice**
- 3.5-cm radar investigation of Mars and Mercury: planetological implications. Butler, B.J., [1994.eng] 50-690
- Alcohols in interstellar ice mantles. Charnley, S.B., et al. [1995.eng] 50-5101
- Alteration of volatile inventories by polar clathrate formation on Mars. Musselwhite, D., et al. [1995.eng] 50-2133
- Chemical sputtering could produce sodium vapor and ice on Mercury. Potter, A.E., [1995.eng] 50-3093
- Compaction tests to simulate icy satellite regolith physics. Leliwa-Kopystyński, J., et al. [1995.eng] 50-5200
- Condensation of cometary ice analogs. Patnaik, A., et al. [1996.eng] 50-6222
- Cosmochemical significance of hydrocarbon reaction to frozen benzene impact. Mimura, K., et al. [1995.eng] 50-631
- Cosmoglaciology: evolution of ice in interstellar space and the early solar system. Kouchi, A., et al. [1995.eng] 50-1030
- Cryovolcanism on the icy satellites. Kargel, J.S., [1994.eng] 50-1860
- Description of the Martian polar cap breeze. Fernández, W., [1995.eng] 50-3671
- Ejection velocity of ice impact fragments. Arakawa, M., et al. [1995.eng] 50-2153

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- Electrolytical processes in dirty planetary ices. Drobyshevskii, E.M., et al. [1995.eng] 50-655
- Enrichment of CO over N₂ by their trapping in amorphous ice and implications to comet P/Halley. Nosesco, G., et al. [1996.eng] 50-5834
- Erosion on Titan: past and present. Lorenz, R.D., et al. [1996.eng] 50-5832
- Feasibility of infrared sensing of Martian cloud and surface ices. Johnson, B.R., et al. [1996.eng] 50-3865
- First observational evidence for condensation of Io's SO₂ atmosphere on the nightside. Buratti, B.J., et al. [1995.eng] 50-2154
- Formation of amino acid precursors in cometary ice environments by cosmic radiation. Kobayashi, K., et al. [1995.eng] 50-652
- Formation of condensates on dust in interstellar clouds. Duley, W.W., et al. [1995.eng] 50-3290
- Formation of organic molecules in astronomical ices. Schutte, W.A., [1995.eng] 50-653
- High-density amorphous ice, the frost on interstellar grains. Jenniskens, P., et al. [1995.eng] 50-2780
- High-pressure Brillouin scattering and elastic properties of liquid and solid methane. Shimizu, H., et al. [1996.eng] 50-5682
- Hoods, mists, frosts, and ice caps at the poles of Mars. Dollfus, A., et al. [1996.eng] 50-5194
- Impact crater lakes on Mars. Newsom, H.E., et al. [1996.eng] 50-5777
- Infrared spectroscopy of organics of planetological interest at low temperatures. Khanna, R.K., [1995.eng] 50-656
- Ion irradiation of astrophysical ices. Strazzulla, G., et al. [1995.eng] 50-3022
- Laboratory comparisons of organic materials to interstellar dust and the Murchison meteorite. Pendleton, Y.J., [1995.eng] 50-3025
- Laboratory infrared spectra (2.3-23μm) of SO₂ phases: applications to Io surface analysis. Nash, D.B., et al. [1995.eng] 50-1463
- Laboratory studies of astrophysical ices. Dissly, R.W., [1994.eng] 50-680
- Light flash and ionization from hypervelocity impacts on ice. Burchell, M.J., et al. [1996.eng] 50-6530
- Low brightness temperatures of Martian polar caps: CO₂ clouds or low surface emissivity? Forget, F., et al. [1995.eng] 50-2120
- Mass dependence of energy loss in collisions of icy spheres: an experimental study. Dilley, J., et al. [1996.eng] 50-5196
- Near-infrared absorption coefficients of solid nitrogen as a function of temperature. Tryka, K.A., et al. [1995.eng] 50-1078
- Neutral and ionized PAHs: contribution to the interstellar extinction. Salama, F., et al. [1995.eng] 50-3021
- New high-pressure phase of ice. Benoit, M., et al. [1996.eng] 50-6096
- Numerical simulation of the Martian polar cap breeze. Fernández, W., [1995.eng] 50-3672
- O₂ on Ganymede: spectral characteristics and plasma formation mechanisms. Calvin, W.M., et al. [1996.eng] 50-4256
- Observations of molecular ices. Whittet, D.C.B., [1993.eng] 50-3363
- Organic compounds produced by photolysis of simulated cometary ices. Bernstein, M.P., et al. [1995.eng] 50-2724
- Origin and thermal evolution of icy satellites. Coradini, A., et al. [1995.eng] 50-1069
- Photochemistry of Triton's atmosphere and ionosphere. Krasnopolsky, V.A., et al. [1995.eng] 50-2121
- Production and chemical analysis of cometary ice tholins. McDonald, G.D., et al. [1996.eng] 50-5833
- Radiation chemistry of ices of planetological interest at low temperature. Strazzulla, G., [1995.eng] 50-654
- Radioactive heating of porous cometary nuclei. Prialnik, D., et al. [1995.eng] 50-1464
- Radiometry of icy Jovian satellites. Tamppari, L.K., et al. [1995.eng] 50-637
- Rheology of water ices V and VI. Durham, W.B., et al. [1996.eng] 50-3450
- Satellite regolith ground collapse as solar system geological paradigm. Moore, J.M., et al. [1996.eng] 50-6588
- Seasonal nitrogen cycles on Pluto. Hansen, C.J., et al. [1996.eng] 50-4347
- Seasonal nitrogen cycles on Triton and Pluto. Hansen, C.J., [1994.eng] 50-682
- Simulation of extraterrestrial ice radiation absorption properties. Schutte, W.A., et al. [1995.eng] 50-3023
- SO₂ distributions on Io. Sartoretti, P., et al. [1996.eng] 50-6529
- Spectra of mixed ices on Io. Dahmani, R., et al. [1996.eng] 50-6071
- Spectra of nitrogen component of ices in cosmic dust. Whittet, D.C.B., et al. [1996.eng] 50-6210
- Spectral albedos of Charon's surface composition. Roush, T.L., et al. [1996.eng] 50-4002
- Spectropolarimetry of the 3 micron ice feature toward the Becklin-Neugebauer object. Hough, J.H., et al. [1996.eng] 50-5504
- Spectroscopy of ices in quiescent cosmic dust clouds. Chiar, J.E., et al. [1995.eng] 50-2779
- Sputtering of ices in the outer solar system. Johnson, R.E., [1996.eng] 50-5296
- Sputtering of water ice surfaces and the production of extended neutral atmospheres. Shi, M., et al. [1995.eng] 50-2774

Extraterrestrial material

- State of SO₂ on Io's surface. Kerton, C.R., et al. [1996,eng] 50-4257
- Study of ice spectra in cosmic dust. Brooke, T.Y., et al. [1996,eng] 50-3964
- Surface features of interstellar ice. McCoustra, M., et al. [1996,eng] 50-5244
- Thermal conductivity of model ice comet surfaces. Ibadinov, Kh.I., et al. [1987,eng] 50-1770
- Titan's surface: composition and variability from the near-infrared albedo. Coustenis, A., et al. [1995,eng] 50-2031
- Ultraviolet photodesorption from water ice. Westley, M.S., et al. [1995,eng] 50-3024
- Vapor deposited water ice: astrophysical implications. Sack, N.J., [1992,eng] 50-697
- Volcanic and tectonic history of Enceladus. Kargel, J.S., et al. [1996,eng] 50-3864
- Volcanic and tectonic history of Enceladus. Kargel, J.S., et al. [1996,eng] 50-3864
- Water vapor saturation at low altitudes around Mars aphelion: a key to Mars climate? Clancy, R.T., et al. [1996,eng] 50-5831
- Extraterrestrial material**
See [also]: Cosmic dust
- Extremes**
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- Falkland Islands**
Forms of unusual patterned ground: examples from the Falkland Islands, South Atlantic. Wilson, P., [1995,eng] 50-2718
- Falling bodies**
No iridium anomaly after the 1908 Tunguska impact: evidence from a Greenland ice core. Rasmussen, K.L., et al. [1995,eng] 50-2741
- Falling snow**
Bistatic scattering of radiowaves by a melting layer of precipitation. Zhang, W., et al. [1996,eng] 50-6335
- Deposition around a coal-fired power station during a winter-time precipitation event. Jylhä, K., [1995,eng] 50-4953
- Effect of breakup of melting snowflakes on the resulting size distribution of raindrops. Fujiyoshi, Y., et al. [1996,eng] 50-6724
- Estimating visibility on roads in snow by video. Ishimoto, K., et al. [1995,jpn] 50-6800
- Experimental formula of falling velocity of snow crystals. Kajikawa, M., [1975,eng] 50-3883
- Factors affecting the stability of fall attitude of cone-like graupel. Kajikawa, M., [1996,jpn] 50-4935
- Fall velocity of snowflakes. Jüsto, J.E., et al. [1971,eng] 50-3884
- Forecasting avalanches from freshly fallen, snowstorm and wet snow in the Anzobskiy Pass region. Kharitonov, G.G., et al. [1991,rus] 50-12
- Measurement of falling velocity of rimed snowflakes. Ishizaka, M., [1995,jpn] 50-1171
- Measuring the density of snow particles and snowfall rate. Muramoto, K.I., et al. [1995,eng] 50-4573
- New look at the melting layer. Drummond, F.J., et al. [1996,eng] 50-4145
- New method for measuring snow crystals (snow crystal measuring system). Kikuchi, K., et al. [1982,eng] 50-5798
- Obscuration in smoke and snow. Hutt, D.L., [1990,eng] 50-733
- On the scattered radiation intensity fluctuations for a focused laser beam in snowfall. Vostretsov, N.A., et al. [1994,eng] 50-1285
- Precipitation hydrometeor characterization by a CW Doppler radar. Duvernoy, J., et al. [1996,eng] 50-5165
- Precipitation parameters in natural obscuration. Hogan, A.W., [1990,eng] 50-734
- Radar image tracking and its use in a short-term snowfall prediction system. Neill, P.P., et al. [1993,eng] 50-5248
- Radio wave scattering from melting snow particles. Zhang, W., et al. [1996,eng] 50-6622
- Snow identification from radar wind profiler spectra. Ralph, F.M., et al. [1996,eng] 50-5163
- Snow scavenging effects on large-area smoke screens. Slota, J.R., et al. [1991,eng] 50-764
- Snow scavenging on the winter battlefield. Slota, J.R., et al. [1990,eng] 50-735
- Snowfall intensity climatologies within the contiguous United States. Ryerson, C.C., [1991,eng] 50-763
- Sorption of nonpolar organic vapors by ice and snow. Hoff, J.T., et al. [1995,eng] 50-644
- Submesoscale variation in snow-induced obscuration. Hogan, A.W., [1991,eng] 50-762
- Submillimeter wave attenuation in falling snow. Suzuki, M., et al. [1979,jpn] 50-3940
- Fallout**
Atmospheric deposition at Niwot Ridge, CO. Rusch, D., et al. [1995,eng] 50-2395
- Chernobyl fallout in Bering Sea sediments. Kusabe, M., et al. [1988,eng] 50-4635
- Distribution of cesium-137 in Bering and Chukchi Sea marine sediments. Cooper, L.W., et al. [1995,eng] 50-5062
- Dry depositional loading of nitrogen to an alpine snowpack. Niwot Ridge, Colorado. Cress, R.G., et al. [1995,eng] 50-2396
- Estimates of Greenland atmospheric impurity variations during deglaciation. Alley, R.B., et al. [1995,eng] 50-1872

- Estimation of aerosol deposition to a snow surface. Sharma, M., et al. [1995,eng] 50-3011
- Evolution of the ecosystem and biogeography of seas in the European Arctic. Pavlov, D.S., ed. [1994,rus] 50-3088
- Isotopic tracers for investigating hydrological processes. Cooper, L.W., et al. [1996,eng] 50-4846
- Kulshan caldera: a Quaternary subglacial caldera in the North Cascades, Washington. Hildreth, W., [1996,eng] 50-6547
- Model for measuring PAH deposits on snow. Sharma, M., et al. [1995,eng] 50-3037
- Nitrogen deposition and release in alpine watersheds. Loch Vale, Colorado, USA. Campbell, D.H., et al. [1995,eng] 50-2416
- No iridium anomaly after the 1908 Tunguska impact: evidence from a Greenland ice core. Rasmussen, K.L., et al. [1995,eng] 50-2741
- Nutrient and persistent pollutant deposition on the Bothnian Bay ice and snow fields. Rahm, L., et al. [1995,eng] 50-1650
- O₂ and NO₂ fluxes over snow measured by eddy correlation. Stocker, D.W., et al. [1995,eng] 50-2151
- Ozone deposition in a snow-covered subalpine spruce-fir forest environment. Zeller, K., et al. [1995,eng] 50-2394
- Periglacial overlying strata in the Bavarian forest. Völkel, J., [1993,eng] 50-1679
- Pu-¹³⁷Cs and excess ²¹⁰Pb in Russian arctic sediments. Baskaran, M., et al. [1996,eng] 50-5606
- Radionuclide tracer profiles on Arctic Ocean ice islands. Smith, J.N., et al. [1995,eng] 50-4560
- Report on radioactivity in the Arctic region. Paakkola, O., [1991,eng] 50-3423
- Runoff composition in a bedrock catchment watershed. Clow, D.W., et al. [1995,eng] 50-2415
- Scavenging rates affecting Arctic Ocean radionuclide distributions. Cochran, J.K., et al. [1995,eng] 50-4562
- Sedimentation and mixing rates of radionuclides in Barents Sea sediments off Novaya Zemlya. Smith, J.N., et al. [1995,eng] 50-4561
- Snowmelt induced chemical changes in seven streams in the Sierra Nevada, California. Melack, J.M., et al. [1995,eng] 50-2414
- Subglacial ice accretion in an Alaskan glacier. Strasser, J.C., et al. [1996,eng] 50-6250
- Tracing radioactive contamination in the Siberian Arctic. Sayles, F.L., et al. [1996,eng] 50-6668
- Transfer of European coastal pollution to the Arctic: radioactive tracers. Dahlgaard, H., [1995,eng] 50-1136
- Farming**
See [also]: Agriculture
- Fast ice**
Build-up, decay and role of the sea-ice cover of the Liefdefjord, NW Spitsbergen. King, L., et al. [1994,ger] 50-1596
- Coastal environments of the western Kara and eastern Barents Seas. Pfliman, S.L., et al. [1995,eng] 50-4558
- Contribution of fast-ice algae to the spring phytoplankton bloom in Ellis Fjord. McMinn, A., [1996,eng] 50-5271
- Hydrotechnical structure for fast ice. Silin, A.V., et al. [1992,rus] 50-1937
- Microbial sea ice ecology at a coastal antarctic site. Archer, S.D., et al. [1996,eng] 50-5456
- North-East Water polynya: satellite observations summer 1992 and 1993. Gudmandsen, P., et al. [1995,eng] 50-1814
- Observations on a plug of old sea ice in the entrance to Nansen Sound. Ellesmere Island. Sadler, H.E., et al. [1981,eng] 50-46
- Of ocean waves and sea ice. Squire, V.A., et al. [1995,eng] 50-5241
- Polar hydrocarbon technologies: future developments. Yates, J., et al. [1995,eng] 50-5446
- Problems in the rational use of coastal zones of arctic seas. Sovershaev, V.A., et al. [1991,rus] 50-1299
- Relation between scattering coefficient and radiation flux over land-fast sea ice. Barber, D.G., et al. [1995,eng] 50-1816
- River-coastal sea ice interaction model: Mackenzie River Delta. Searcy, C., et al. [1996,eng] 50-5265
- Sea ice formation in Cook Inlet Alaska: a high energy environment. Nelson, W.G., [1995,eng] 50-2944
- Seismic activity of landfast ice. Nikitin, V.A., et al. [1995,eng] 50-188
- Shore ice pile-up and ride-up: field observations, models, theoretical analyses. Kovacs, A., et al. [1979,eng] 50-856
- Study of multi-year pressure ridges and shore ice pile-up. Kovacs, A., [1975,eng] 50-855
- Summer phytoplankton bloom under fast ice around Showa Station. Odate, T., et al. [1996,eng] 50-6037
- Fatigue (materials)**
Congressional hearing on programs related to aircraft deicing. 1992, U.S. Congress. House. Committee on Public Works and Transportation, [1992,eng] 50-6204
- Evaluating the effects of icing on wind turbines. Walsh, M., [1992,eng] 50-3636
- Fatigue criteria for asphalt pavements. Laboratory and field criteria. Committee 34. Wiman, L.G., ed. [1996,swe] 50-5603
- Fatigue reliability calculation for structure members of offshore fixed platform. Fang, H.C., et al. [1995,eng] 50-218
- Mechanical behavior of 18 Ni 200 grade maraging steel at cryogenic temperatures. Wagner, J.A., [1986,eng] 50-4101
- Post-yield strength of icebreaking ship structural members. DesRochers, C.G., et al. [1995,eng] 50-877
- Preliminary results from fatigue tests on in situ sea ice beams. Haskell, T.G., et al. [1996,eng] 50-5469
- Study of concrete bridges exposed to deicing salts. Novokshchenov, V., [1989,eng] 50-4225

- Fauna**
See [also]: Animals
- Faunal remains**
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- Fences**
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- Films**
Aerial surveillance of oil sheen following the Exxon Valdez oil spill shoreline cleanup. Taft, D.G., et al. [1995,eng] 50-3919
- Cratering phenomena on aircraft anti-icing films. La Due, J., et al. [1996,eng] 50-4219
- Diffusive properties of polymer membranes prepared by freeze/thaw techniques. Hickey, A.S., et al. [1995,eng] 50-2698
- Effects of anti-icing fluid on wing lift during supercooled precipitation. Bouchard, G., et al. [1995,eng] 50-3255
- New laser plasma source for extreme-ultraviolet lithography. Jin, F., et al. [1995,eng] 50-3678
- Polymer composition for plastic material. Lerner, B.Sh., et al. [1992,rus] 50-1939
- Study on the behaviour of the direct contact melting under unsteady condition. Saito, A., et al. [1996,eng] 50-6449
- See [also]: Water films
- Filters**
Cold-climate constructed wetlands. Møhlum, T., et al. [1995,eng] 50-6066
- Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al. [1996,eng] 50-4766
- Pneumatic regeneration system of a filtration substance in filters. Tomaidis, M., et al. [1962,cze] 50-2228
- Prudhoe Bay field, Alaska, waterflood injection water quality and remedial treatment study. Hsi, C.D., et al. [1991,eng] 50-1700
- Satellite mapping and monitoring of sea ice. Smith, D.M., et al. [1994,eng] 50-5197
- Silt fence testing for Eagle River Flats dredging. Henry, K.S., et al. [1995,eng] 50-880
- Solid phase extraction of nitroaromatics from water. Jenkins, T.F., et al. [1995,eng] 50-1977
- Use of geosynthetics to prevent waterfowl white phosphorus poisoning. Henry, K.S., et al. [1995,eng] 50-2865
- Using reed beds for winter operation of wetland treatment system for wastewater. Yin, H., et al. [1995,eng] 50-6067
- Filtration**
See [also]: Seepage
- Fines**
Effect of fines content on frost heave. Tester, R.E., et al. [1996,eng] 50-6752
- Liquefaction resistance of silty sand based on in situ frozen samples. Yoshimi, Y., et al. [1996,eng] 50-5080
- See [also]: Frozen fines
- Finland**
10,000-years dynamics of limnic ecosystems and climatic change. Salonen, V.-P., et al. [1994,eng] 50-3182
- Acclimation of tree function and structure to climate change and implications to forest carbon balance. Hari, P., et al. [1994,eng] 50-3204
- Accumulation rates of carbon in mires in Finland and implications for climate change. Tolonen, K., et al. [1995,eng] 50-6078
- Age of carbon black atmospheric aerosols over Finland. Raunema, T., et al. [1996,eng] 50-5257
- Application of lake temperature model for predicting the effect of climatic change. Virta, J., et al. [1994,eng] 50-3200
- Assessment of hydrological changes. Hiltunen, T., [1994,eng] 50-3184
- Assessment of the impact of the greenhouse gas emission and sink scenarios in Finland. Pipatti, R., et al. [1994,eng] 50-3234
- Bedrock surface weathering on Finnish fjell summits. McCarroll, D., et al. [1996,eng] 50-5825
- Biomass and production of vascular plants in a mesotrophic fen. Saarinen, T., et al. [1994,eng] 50-3215
- Carbon in boreal coniferous forest soil. Westman, C.J., et al. [1994,eng] 50-3203
- Climate change and forest management alternatives. Valsta, L., et al. [1994,eng] 50-3233
- Climate change and water resources in Vuoksi watershed. Vehviläinen, B., et al. [1994,eng] 50-3195
- Climatic changes in Northern Europe. Heino, R., et al. [1994,eng] 50-3183
- CO₂ fluxes in peatlands under varying temperature and moisture conditions. Silvola, J., et al. [1994,eng] 50-3218
- Demonstration of seasonal changes in the territory of Finland using multi-temporal NOAA-AVHRR data. Andersson, K., [1992,eng] 50-618
- Development of a climate generator for Finland. Il. Pösch, M., [1994,eng] 50-3227
- Diatom, chrysophyte and protozoan distributions along a latitudinal transect in Fennoscandia. Pienitz, R., et al. [1995,eng] 50-4741
- Differences in carbon accumulation of two cut-over peatlands in Finland. Roderfeld, H., et al. [1994,eng] 50-3226
- Economic and game-theoretical analysis of CO₂ reduction agreements. Tahvonen, O., [1994,eng] 50-3235
- Effect of climate change on erosion and nutrient transport from arable land. Kallio, K., et al. [1994,eng] 50-3196

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Floating structures

- Effect of climatic change on photosynthesis, respiration and transpiration of Scots pine. Laitinen, K., [1994,eng] 50-3210
- Effect of drainage intensity and fertilization on peat carbon compounds and their mineralization. Karisto, M., et al, [1994,eng] 50-3225
- Effect of forest drainage on the carbon balance of peatland ecosystems. Laine, J., et al, [1994,eng] 50-3224
- Effect of temperature on the phenology of perennial plant species. Lappalainen, H., et al, [1994,eng] 50-3206
- Effects of climatic change on onset of growth and risk of frost damage in Scots pine. Hanninen, H., [1994,eng] 50-3208
- Effects of elevated N-input and CO₂ on *Sphagnum* with different trophic level. Jauhainen, J., et al, [1994,eng] 50-3214
- Emissions of methane and nitrogen oxides from peatland ecosystems. Martikainen, P.J., et al, [1994,eng] 50-3220
- Energy saving building systems based on advanced hollow core slab technology. Kajava, A., [1984,eng] 50-3160
- Estimation of biomass and other characteristics of boreal forest. Häme, T., et al, [1994,eng] 50-3228
- Estimation of climate change effect on the runoff: catchment-scale application of SOIL-model. Roos, J., et al, [1994,eng] 50-3194
- Evaluation of the changes in regional wintertime deposition in Finland during 1976-1993. Sovieri, J., et al, [1995,eng] 50-4956
- Fine root production and decomposition on drained peatlands. Finér, L., et al, [1994,eng] 50-3217
- Forest damage mapping with multi-temporal ERS-1 SAR data. Rauste, Y., [1994,eng] 50-3229
- Framework for modeling the effects of climate change on material fluxes in forested catchments. Holmberg, M., et al, [1994,eng] 50-3197
- Frost durability of high strength concretes. Kukko, H., et al, [1995,fin] 50-1158
- Geochemical correlation between coarse and fine fractions of till in southern Finland. Tarvainen, T., [1995,eng] 50-2705
- Hydrological processes contributing to nitrogen leaching. Lepistö, A., [1996,eng] 50-5599
- Icebreaker agreement [1992,eng] 50-4413
- Impact of climate change on carbon cycle in freshwater ecosystems. Kankaala, P., et al, [1994,eng] 50-3201
- Leaching of organic carbon and nitrogen from forested catchments. Kortelainen, P., et al, [1994,eng] 50-3221
- Microclimatic models, estimation of solar radiation and evaporation over land surfaces. Heikinheimo, M., et al, [1994,eng] 50-3186
- Model of effects of global warming of water balance of subarctic forest ecosystems. Kellomäki, S., et al, [1996,eng] 50-4750
- Modeling the effects of climate change on lakes. Frisk, T., et al, [1994,eng] 50-3198
- Modeling the effects of climate change, air pollutants and land use on freshwater ecosystems: summary. Kauppi, L., et al, [1994,eng] 50-3192
- Modeling the effects of climatic change on phosphorus transport from a drainage basin. Bileteidin, A., et al, [1994,eng] 50-3199
- Northern forest plants under the pressure of environmental changes. Laine, K., et al, [1994,eng] 50-3231
- Northern wilderness areas: ecology, sustainability, values. International Conference on Northern Wilderness Areas. Arctic Centre. University of Lapland. Rovaniemi, Finland. Dec. 7-9, 1994. [1995,eng] 50-3167
- Paleoecological study of fire-induced lake water acidity variations. Korhola, A., et al, [1996,eng] 50-5020
- Pedestrian slipping accidents and their prevention. Kelkka, M., [1995,fin] 50-5507
- Physiological and genetical adaptation of forest trees to climatic changes. Beuker, E., et al, [1994,eng] 50-3205
- Physiological responses of *Pinus sylvestris* on changing carbon dioxide and ozone concentration. Holopainen, T., et al, [1994,eng] 50-3232
- Pleistocene stratigraphy in the Lappajärvi meteorite crater in Ostrobothnia, Finland. Salonen, V.P., et al, [1992,eng] 50-2556
- Possibilities for industrial cooperation concerning district heating technology. Juvonen, O.A., [1984,eng] 50-3161
- Potential ecological impacts of climate change in the Alps and Fennoscandian mountains. Guisan, A., ed, et al, [1995,eng] 50-1002
- Precision measurements and theoretical calculations for solar ultraviolet radiation. Jokela, K., et al, [1994,eng] 50-3190
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Rate of carbon accumulation in boreal mires. Tolonen, K., et al, [1994,eng] 50-3223
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- Response of boreal forest ecosystems to climatic change and its silvicultural implications: modelling. Kellomäki, S., et al, [1994,eng] 50-3209
- Response of leaching from mire ecosystems to changing climate. Sallantausta, T., [1994,eng] 50-3222
- Response of the boreal forest ecosystem to climatic change and its silvicultural implications. Kellomäki, S., ed, [1994,eng] 50-3207
- Role of above-ground biomass in carbon cycling in drained peatland ecosystems. Laiho, R., et al, [1994,eng] 50-3216
- Seasonal cycle of C₂-C₃ hydrocarbons over the Baltic Sea and northern Finland. Laurila, T., et al, [1996,eng] 50-5607
- Simulation of Scots pine regeneration under changing Finnish climate. Kellomäki, S., et al, [1995,eng] 50-1089
- Soil respiration in a stand of Scots pine under elevated temperature. Pajari, B., [1994,eng] 50-3211
- Solifluction and climatic variation in the Holocene. Frenzel, B., ed, et al, [1993,eng] 50-823
- Solifluction in northern Finland: past and present. Seppälä, M., [1993,eng] 50-830
- Stable carbon isotope ratios in tree rings of pines from northern Finland. Sonninen, E., et al, [1994,eng] 50-3181
- Stratospheric ozone research in Finland, focusing on atmospheric modelling. Rummukainen, M., et al, [1995,eng] 50-1778
- Sulfate aerosols and climate change. Kerminen, V.-M., et al, [1994,eng] 50-3188
- Temporal and spatial variation of CO₂, CH₄ and N₂O fluxes in a boreal microtrophic pine fen. Silvola, J., et al, [1994,eng] 50-3219
- Tropospheric chemistry of greenhouse gases in Finnish conditions. Laurila, T., et al, [1994,eng] 50-3191
- Wilderness quality mapping in the Euro-Arctic Barents region. Husby, E., et al, [1995,eng] 50-3171
- Wind energy research in NEMO—research program. Peltola, E., [1992,eng] 50-3627
- Younger Dryas end moraines in Finland and NW Russia. Rainio, H., et al, [1995,eng] 50-514
- Finland, Gulf**
- Characteristics of the spatial variability in the pollution of snow cover. Adamenko, V.N., et al, [1992,rus] 50-384
- Environmental effects of the *Antonio Gramsci* oil spill in 1987. Hirvi, J.P., [1990,eng] 50-469
- Role of geomorphological analysis in coastal environmental protection measures. Finarov, D.P., et al, [1992,rus] 50-386
- Finland—Etsu-Mustajärvi**
- Paleoecology of Finnish lacustrine deposits. Sarmaja-Korjonen, K., [1995,eng] 50-4738
- Finland—Lapland**
- Atmospheric aerosol in the Finnish Arctic. Virkkula, A., et al, [1995,eng] 50-4952
- Effect of air pollution on soil invertebrates in the Lapland biosphere reserve. Giliazova, E.V., [1994,rus] 50-286
- Snowpack evidence of air pollution in Lapland and the Kola Peninsula. Lindroos, A.J., et al, [1995,eng] 50-4955
- Yearly cycle of lower tropospheric ozone at the Arctic Circle. Rummukainen, M., et al, [1996,eng] 50-5614
- Fires**
- Active layer changes following forest tundra fire. Mackay, J.R., [1995,eng] 50-2807
- Flame spread over fuel-spilled and/or snow-covered asphalt road. Ishida, H., et al, [1996,eng] 50-4230
- Holocene development of a debris slope in subarctic Québec, Canada. Marion, J., et al, [1995,eng] 50-2857
- Ice free fire escapes [1991,eng] 50-4379
- Late Holocene record of aeolian and fire activity in northern Québec, Canada. Filion, L., et al, [1991,eng] 50-3304
- Paleoecology of Swedish bogs. Segerström, U., et al, [1996,eng] 50-4373
- Tunnel completed under Storebælt Strait. Wallis, S., [1995,eng] 50-143
- See [also]: Forest fires
- Firm**
- Atmospheric CO₂ variations inferred from antarctic ice composition. Etheridge, D.M., et al, [1996,eng] 50-3446
- Cation trace analysis of snow and firm samples from high-alpine sites by ion chromatography. Döschner, A., et al, [1995,eng] 50-594
- Century of accumulation and temperature changes in Dronning Maud Land, Antarctica. Isaksson, E., et al, [1996,eng] 50-4352
- Current and ancient glaciation in the Cheshuri River basin (central range of the Caucasus). Gobedzhishvili, R.G., [1972,rus] 50-531
- Effect of snow hydrology on glacial runoff. Fountain, A.G., [1996,eng] 50-6084
- Firn boundary as a high altitude ridge of the belt flow in mountain basins. Shcheglova, O.P., [1973,rus] 50-434
- First results of ¹⁵N/¹⁴N ratios in nitrate from alpine and polar ice cores. Freyer, H.D., et al, [1996,eng] 50-3724
- Fracture toughness of ice and firm determined from the modified ring test. Fischer, M.P., et al, [1995,eng] 50-458
- Glacial-hydrological studies of the Syr Darya basin. Kamalov, B.A., [1973,rus] 50-426
- Glacio-meteorological and isotopic studies along the EGIG line, central Greenland. Fischer, H., et al, [1995,eng] 50-1873
- Morphometric characteristics of current glaciation in the mountains of Central Asia. Dolgushin, L.D., et al, [1972,rus] 50-528
- Observations in a typical glacial basin of the Bol'shaya Khadata River in 1970-71. Gus'kov, A.S., [1972,rus] 50-529
- Radar measurements of melt zones on the Greenland ice sheet. Jezek, K.C., et al, [1994,eng] 50-4804
- Seismic operations in the Dzhanqat Glacier. Aleshin, A.S., [1972,rus] 50-530
- Thermal balance of the surface of the Marukh Glacier. Voloshina, A.P., [1972,rus] 50-535
- Firm stratification**
- Climatological interpretation of a firm pollen profile. Ambach, W., et al, [1967,ger] 50-5746
- Greenland ice core records and rapid climate change. Dowdeswell, J.A., et al, [1995,eng] 50-5239
- Ice core records for analyzing desertification. Nakawo, M., et al, [1995,eng] 50-614
- Ice textures in an ice core from the Guliya Ice Cap. Huang, M.H., et al, [1995,eng] 50-4514
- Japanese glaciological environmental studies in the arctic cryosphere. Watanabe, O., [1995,jpn] 50-3507
- Liquid water content in temperate glacier cores. Joubert, J.L., [1963,fre] 50-5742
- Measuring firm thickness and accumulation temperature. Craig, H., et al, [1996,eng] 50-3640
- Microwave emission from density-stratified antarctic firm at 6 cm wavelength. West, R.D., et al, [1996,eng] 50-4892
- Microwave emission from polar firm. West, R.D., [1994,eng] 50-662
- Passive microwave remote sensing of snow: volume scattering in antarctic firm. Tsang, L., et al, [1995,eng] 50-4181
- Radar investigations of firm structures and crevasses. Glover, J.M., et al, [1992,eng] 50-58
- Snow cover and ice formation on the northern slope of Mount Xixia Bangma. Xie, Z.C., [1982,chi] 50-6597
- Snow stratigraphy and accumulation rate in the Lambert Glacier basin. Ren, J.W., et al, [1995,chi] 50-5640
- Snow studies at Maudheim. Schytt, V., [1958,eng] 50-6418
- Summer temperatures from an ice core at Law Dome. Han, J.K., [1989,chi] 50-6771
- Fracture patterns**
- See [also]: Patterned ground
- Fjords**
- Expedition ARKTIS-X/2 of RV *Polarstern* in 1994. Hubberten, H.W., ed, [1995,eng] 50-1548
- Problems associated with the occurrence of glacial forms on the bottom of fjords in Spitsbergen. Kowalewski, W., et al, [1989,pol] 50-2879
- Tectonics sketch of the offshore area within Hornsund region, Spitsbergen. Bednarek, J., et al, [1993,eng] 50-2195
- Flexural strength**
- Attempt to draw a scenario of ice/propeller interaction. Tamura, K., et al, [1996,eng] 50-4475
- Effects of individual ridging events on the ice thickness distribution in the arctic ice pack. Hopkins, M.A., [1996,eng] 50-3828
- Laboratory tests for ice interaction with steel booms. Timco, G.W., et al, [1996,eng] 50-5812
- Method of estimating sea ice flexural strength based on hydrometeorological data. Gavrilov, V.P., et al, [1995,eng] 50-214
- Post-yield strength of icebreaking ship structural members. DesRochers, C.G., et al, [1995,eng] 50-877
- Response of a circular ice floe to ocean waves. Meylan, M.H., et al, [1996,eng] 50-5264
- Structural failure of the *Tianic*. Garzke, W.H., Jr., et al, [1994,eng] 50-5177
- Structure and flexural strength of sea ice and consolidation of pressure ridges. Shapiro, L.H., et al, [1995,eng] 50-6283
- Study of dynamic effects on icebreaking in 2-dimension: computations and components of icebreaking load. Yamaguchi, H., et al, [1996,eng] 50-4469
- Study of dynamic effects on icebreaking in 2-dimension: experiment. Usami, A., et al, [1996,eng] 50-4468
- Superplasticizer dosage effects on concrete frost resistance. Gagné, R., et al, [1996,eng] 50-5922
- Upheaval buckling of a pipeline in an arctic environment. Quimby, T.B., et al, [1996,eng] 50-6125
- Floating ice**
- Design of ice booms. Foltyn, E.P., et al, [1996,eng] 50-6068
- Development of a portable ice-thickness measuring instrument. Glynn, D.P., et al, [1992,eng] 50-4908
- Effects of floating ice cracks on propagation of flexural waves. Bukatov, A.E., et al, [1996,eng] 50-3410
- Elasto-delayed-elastic simulation of short-term deflection of fresh-water ice covers. Sinha, N.K., et al, [1996,eng] 50-5474
- Method for continuous measurement of ice cover thickness. Nordell, B., et al, [1995,eng] 50-1145
- Method of preserving ice. Feldman, B.I.A., [1992,rus] 50-1947
- Method to prevent weld zone corrosion in offshore structures. DeGeer, D.D., et al, [1991,eng] 50-1726
- Numerical model of flow in ice-covered channel. Yoon, J.Y., et al, [1996,eng] 50-2720
- Observations of the grounding-line area at a floating glacier terminus. Powell, R.D., et al, [1996,eng] 50-6264
- Planar forcing of floating ice sheets. Zhao, Z.G., et al, [1996,eng] 50-1108
- Sliding rocks at the Racetrack, Death Valley: what makes them move. Reid, J.B., Jr., et al, [1995,eng] 50-1106
- Thermal stratification effects near a vertical ice slab in cold water. Kulkulka, D.J., et al, [1993,eng] 50-3361
- See [also]: Ice floes
- Floating structures**
- Concrete TLP to sit out Barents bergs. Cottrill, A., [1990,eng] 50-3866
- Device for maintaining ice-free areas around a floating dredging pump. Barskii, B.L., et al, [1992,rus] 50-1941
- Ice breaking device for an offshore platform. Mishin, V.N., et al, [1992,rus] 50-1949
- Mobile offshore platform and a method for its assembly and dismantling. Ionin, V.S., [1992,rus] 50-1948
- New arctic drilling rig [1987,eng] 50-4286
- Special light weight concrete—resistance to rebar corrosion and salt/frost scaling. Havdahl, J., et al, [1995,eng] 50-2658

Flood control

Flood control

- Avalanche activity during major avalanche events, a case study for hydroelectric reservoirs. Schaer, M., [1995,eng] 50-4660
Mitigation of ice jams. Burrell, B.C., [1995,eng] 50-790
New, low-cost ice control structure. Part 1: concept development. Lever, J.H., et al., [1996,eng] 50-6158
New, low-cost ice control structure. Part 2: construction and performance. Lever, J.H., et al., [1996,eng] 50-6159
River ice control and fish habitat restoration: mutual interests and benefits. Lever, J.H., et al., [1995,eng] 50-3121
Runup and overtopping of impulse waves on dams. Müller, D.R., [1995,ger] 50-858
Three-dimensional simulation of river ice jams. Hopkins, M.A., et al., [1996,eng] 50-6155
- Flood forecasting**
1991 ice jamming along the Saint John River: a case study. Beltaos, S., et al., [1996,eng] 50-5809
ARNO rainfall-runoff model. Todini, E., [1996,eng] 50-3729
Case study: freeze-up and jamming on the Peace River at Peace River. Andres, D.D., [1995,eng] 50-792
Cold climate hydrometeorology. Upadhyay, D.S., [1995,eng] 50-5508
Dynamics of river ice jam release. Shen, H.T., et al., [1996,eng] 50-6156
Floods resulting from glacial lake outbursts. Yrquiang River basin, Xinjiang, China. Li, J., et al., [1994,eng] 50-1535
Hydrometeorological aspects of flood hazards in Canada. Lawford, R.G., et al., [1995,eng] 50-1853
Ice jam flooding on the Missouri River near Williston, North Dakota. Wuebben, J.L., et al., [1995,eng] 50-2707
Joint probability analysis for design storm evaluation. Kaur, S., et al., [1993,eng] 50-233
New ice jam database. White, K.D., [1996,eng] 50-4410
Organization of the river and flood program in the National Weather Service. Stallings, E.A., et al., [1995,eng] 50-1135
Probability distributions for peak stage on rivers affected by ice jams. Tuthill, A.M., et al., [1996,eng] 50-4754
Review of design storm and flood studies for Salal Dam in Chenab basin. Rao, P.R., et al., [1993,eng] 50-234
River ice motion detector. Zufelt, J.E., et al., [1995,eng] 50-889
Runup and overtopping of impulse waves on dams. Müller, D.R., [1995,ger] 50-858
Slushflow prediction project in Rana, Norway. Hestnes, E., et al., [1995,eng] 50-4691
Spatial and temporal distribution of storm precipitation in southwestern British Columbia. Loukas, A., et al., [1996,eng] 50-2603
Terrain as a controlling factor for slush streams in Spitsbergen. Scherer, D., et al., [1994,eng] 50-1588
- Flooding**
1991 ice jamming along the Saint John River: a case study. Beltaos, S., et al., [1996,eng] 50-5809
1994 Lugge Tsho glacial lake outburst flood, Bhutan Himalaya. Watanabe, T., et al., [1996,eng] 50-4236
Catastrophic drainage from ice-dammed glacial Lake Assiniboine. Wolfe, B., et al., [1995,eng] 50-4881
Compositional simulation and performance analysis of the Prudhoe Bay Miscible Gas Project. McGuire, P.L., et al., [1991,eng] 50-1702
Conglomerate identification and mapping leads to development success in a mature Alaskan field. O'Sullivan, T.P., et al., [1991,eng] 50-1756
Danger of lake burst flooding from a Himalayan glacial lake. Watanabe, T., et al., [1995,eng] 50-3338
Effects of nutrient availability on arctic sedge growth. Gebauer, R.L.E., et al., [1995,eng] 50-2540
Evolving description of a fractured carbonate reservoir: the Lisburne Field, Prudhoe Bay, Alaska. Missman, R.A., et al., [1991,eng] 50-1755
Exceptional storm and its effects in the Canadian High Arctic. Cogley, J.G., et al., [1976,eng] 50-3679
Floods resulting from glacial lake outbursts. Yrquiang River basin, Xinjiang, China. Li, J., et al., [1994,eng] 50-1535
Geostatistical analysis of waterflood recoveries from an Alaskan drillsite. Wolcott, D.S., et al., [1991,eng] 50-1757
Glacial to modern changes in global river fluxes. Baker, V.R., [1994,eng] 50-1240
Hydrometeorological aspects of flood hazards in Canada. Lawford, R.G., et al., [1995,eng] 50-1853
Ice jam flooding and mitigation: Lower Platte River basin, Nebraska. White, K.D., et al., [1996,eng] 50-4251
Ice jam flooding on the Missouri River near Williston, North Dakota. Wuebben, J.L., et al., [1995,eng] 50-2707
Identification of elements of fluvio-glacial shapes characteristic of glacial outbursts. Robitaille, A., et al., [1995,eng] 50-5041
Impacts of climate variability and change on Canadian wetlands. Woo, M.K., [1992,eng] 50-4805
Injection profiling in the Kuparuk River Field, Alaska. Scott, H.D., et al., [1991,eng] 50-1741
Jökulhlaup from Katla in 1918. Tómasson, H., [1996,eng] 50-6268
Not yodelling but drowning. Edwards, R., [1995,eng] 50-1965
Oil recovery from Alaskan tar sands using electromagnetic heating. Islam, M.R., et al., [1991,eng] 50-1760
Open-water and ice-jam flooding of a northern delta. Prowse, T.D., et al., [1994,eng] 50-5699
Optimizing fracture stimulations in the McArthur River oil reservoir, Alaska. Schoffmann, A.B., [1991,eng] 50-1750
PennDOT responds to the challenges of January's blizzards and flooding. Chizmar, S., [1996,eng] 50-6102

- Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991. [1991,eng] 50-1696
Role of sediment transport in the mechanics of jökulhlaups. Fowler, A.C., et al., [1996,eng] 50-6269
Sediment discharge from an Alaskan surging glacier. Merrand, Y., et al., [1996,eng] 50-6266
Tunnel valley genesis. Cofaigh, C.O., [1996,eng] 50-5012
Waterflood monitoring enhancement of offshore Alaskan oil reservoir management. Starzer, M.R., et al., [1991,eng] 50-1712
- Floodplains**
Danube River fluvial geomorphodynamics during the Quaternary. Buch, M.W., et al., [1995,eng] 50-2749
Development of the middle and lower course of the Weser River during the Late Pleistocene. Meinke, K., [1995,eng] 50-2746
Estimating deformation in river floodplains under conditions of human activity. Zimichev, V.P., [1991,rus] 50-1306
Evolution of soils in the basin of the middle reach of the Berlek River (Upper Kolyma River). Pavlov, B.A., et al., [1995,eng] 50-3877
Experience in biological recultivation of alluvial sandy soils in the Lena River floodplain. Poklonnaia, L.V., [1994,rus] 50-299
Fabric and structure in glaciofluvial gravels. Rust, B.R., [1975,eng] 50-4816
Late Pleistocene vegetation of eastern Beringia: pollen analysis of dated alluvium. Schweger, C.E., [1982,eng] 50-3373
Natural vegetation complexes of the Northern Dvina River floodplain. Vekhov, N.V., [1995,eng] 50-4699
Paleoenvironmental implications of modern periglacial colian deposits. Dijkman, J.W.A., et al., [1991,eng] 50-5172
Protection of arctic bridge crossing by refrigerated foundation. Christopherson, A.B., et al., [1991,eng] 50-1734
Quaternary fluvio-morphological processes. Bibus, E., et al., [1995,eng] 50-2747
Soil formation in floodplains in high latitudes. Gafurov, F.G., et al., [1992,rus] 50-22
Spruce succession, disturbance, and geomorphology on the Tanana River floodplain, Alaska. Mann, D.H., et al., [1995,eng] 50-2159
Studies on Holocene fluvial geomorphodynamics on the upper Oberweser. Thomas, J., [1993,ger] 50-2769
Valley bottoms in the late Quaternary. Schirmer, W., [1995,eng] 50-2748
Vegetation chronosequence near Exit Glacier, Kenai Fjords National Park, Alaska, U.S.A. Helm, D.J., et al., [1995,eng] 50-3325
- Floods**
Bibliography on the hydrology of the Himalaya-Karakoram region. Young, G.J., et al., [1996,eng] 50-5273
Conditions for formation and variability of flood flow of rivers in northern Tien Shan. Sumarokova, V.V., [1973,rus] 50-435
Dynamic responses of highway bridge under shock forces of icefloe. Cai, Z.R., et al., [1995,eng] 50-192
Eruption-triggered flood from a glacier-clad volcano in Columbia. Thoutert, J.C., et al., [1995,eng] 50-4830
Forecasting gully erosion in Yamburg. Skubitskaia, M.G., [1996,rus] 50-6406
Forty years of disaster mitigation in Xinjiang. Zhu, L.R., ed, et al., [1993,chi] 50-4166
Introduction to river ice jam floods. Gerard, R.L., et al., [1995,eng] 50-784
Overview of the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Hartley, A.E., Sr., [1996,eng] 50-5568
Slush stream phenomena—process and geomorphic impact. Barsh, D., et al., [1993,eng] 50-1674
Survey of calving causing flood waves at the Grubengletscher. Haeblerli, W., [1975,ger] 50-3952
Use of remote sensing spacecraft in real-time support for disaster management. Tortorici Montaperto, A., et al., [1992,eng] 50-620
- Floors**
Energy saving building systems based on advanced hollow core slab technology. Kajava, A., [1984,eng] 50-3160
Foundation heave induced by a subgrade cooling system over permafrost. Scher, R.L., [1991,eng] 50-1737
Freeze-thaw durability testing of oversanded bridge floor concrete. Ouyang, C.S., [1995,eng] 50-4949
Freeze-thaw studies on concrete structural elements. Ganga Rao, H.V.S., et al., [1993,eng] 50-5053
- Flora**
See [also]: Plants (botany); Vegetation
- Flow**
See [also]: Air flow; Fluid flow; Glacier flow; Laminar flow; Pipe flow; Rheology; River flow; Shear flow; Stream flow; Turbulent flow; Unsteady flow; Viscous flow; Water flow
- Flow control**
Damming James Bay: I. Potential impacts on coastal climate and the water balance. Rouse, W.R., et al., [1992,eng] 50-5030
Damming James Bay: II. Impacts on coastal marshes. Price, J.S., et al., [1992,eng] 50-5031
Development of models of freezing and convection during cryogenic pipe freezing. Keary, A.C., et al., [1996,eng] 50-6464
Driving the diversion tunnel at Manic 3. Canadian Industries Limited. Explosives Technical Marketing Services, [1972,eng] 50-5737
Fixing frozen leaks in a dam in Hokkaido. Takada, K., et al., [1995,jpn] 50-6738

Flow rate

- Fuzzy-controller for flow and mixture regulation in an aircraft deicing vehicle. Knappe, H., [1993,eng] 50-2298
Handbook for field evaluation of the 600 ROWPU winterization kit. U.S. Army Cold Regions Research and Engineering Laboratory, [1990,eng] 50-6048
Hydraulic conveying of snow and ice, (3): measurement of pipe flow. Shirakashi, M., et al., [1996,jpn] 50-4934
Hydraulic transport of snow: (4): snow overload detector for snow/water mixing tank. Murayama, K., et al., [1996,jpn] 50-4926
Ice jam flooding on the Missouri River near Williston, North Dakota. Wuebben, J.L., et al., [1995,eng] 50-2707
Ice jamming in upper Niagara River: processes and plan of study. Crissman, R.D., et al., [1995,eng] 50-362
Laboratory testing of air retarders in metal building panels. Flanders, S.N., et al., [1995,eng] 50-1980
Observations of 'freezing-induced redistribution' in soil lysimeters. Butler, A.P., et al., [1996,eng] 50-6082
Open-water and ice-jam flooding of a northern delta. Prowse, T.D., et al., [1994,eng] 50-5699
Pitorifices and small pumps in cold region water distribution systems. Mauser, M.W., [1995,eng] 50-5667
Thermal calculation for anti-icer with micro-ejector. Qui, X.G., et al., [1995,eng] 50-1067
Wellbore multiphase-flow correlation for the eastern operating area of Prudhoe Bay. Bradley, D.A., [1991,eng] 50-1728
World's first artificial ice plug for a hydro tunnel. Berggren, A.L., et al., [1995,eng] 50-5708
- Flow measurement**
Atlantic water in the arctic basin. 2. Circulation. Dmitriev, N.E., et al., [1995,eng] 50-6549
Basal water pressure as indicator of subglacial drainage patterns. Stone, D.B., et al., [1996,eng] 50-6090
Development and stability of preferential flow paths in a layered snowpack. Schneebeli, M., [1995,eng] 50-2402
Dynamics of the Antarctic Circumpolar Current. Ivchenko, V.O., et al., [1996,eng] 50-5157
Flow trajectories in the Bering Sea: evidence for chaos. Reed, R.K., et al., [1990,eng] 50-4730
Gas measurement with large Venturi tubes at Prudhoe Bay, Alaska. Metz, W.P., et al., [1991,eng] 50-1759
Hydraulic conveying of snow and ice, (3): measurement of pipe flow. Shirakashi, M., et al., [1996,jpn] 50-4934
Hydraulic conveying of snow and ice, part 2. Kitahara, T., [1995,jpn] 50-996
Hydrology of a polythermal glacier, Erikbreen, northern Spitsbergen. Vatne, G., et al., [1995,eng] 50-3150
Ice flow observations along traverse routes from the coast to Dome Fuji. Motoyama, H., et al., [1995,eng] 50-1692
Ice force and scour instrumentation for the White River, Vermont. Zabilansky, L.J., [1996,eng] 50-6073
Implications of glacial hydrology and flow for subglacial drainage dynamics. Raymond, C.F., et al., [1995,eng] 50-451
Isotope composition of the ice and subglacial geology near the Allan Hills. Faure, G., et al., [1993,eng] 50-6319
Measurements of powder snow avalanche—nature. Nishimura, K., et al., [1995,eng] 50-1058
Measuring a moving glacier. Sauber, J., et al., [1995,eng] 50-3355
Methods for measuring discharge under ice cover—discussion. Engel, P., et al., [1996,eng] 50-2721
Observations of 'freezing-induced redistribution' in soil lysimeters. Butler, A.P., et al., [1996,eng] 50-6082
Phreatic water surface profiles along ice jams—an experimental study. Saadé, R.G., et al., [1996,eng] 50-6693
Preliminary hydrological results from Sarennes glacier basin, French Alps. Barbet, D., et al., [1993,eng] 50-5690
Protecting water meters from freezing. Kotry, J., [1992,eng] 50-3559
Runoff modeling of a small river basin. Ambroise, B., et al., [1996,eng] 50-6586
Snow hydrological parameters for modelling river runoff. Kuchment, L.S., et al., [1996,eng] 50-5519
Tracer experiments to determine subglacial pressurized flow in Storglaciären. Kohler, J., [1995,eng] 50-445
Tracer study of glacial drainage variations in Switzerland. Nicnow, P., et al., [1996,eng] 50-5580
Water resources data for Alaska, water year 1994. Bigelow, B.B., et al., [1995,eng] 50-2169
- Flow rate**
Dynamics of David Glacier and its floating Drygalski Ice Tongue. Frezzotti, M., [1994,ita] 50-2824
Effect of snow hydrology on glacial runoff. Fountain, A.G., [1996,eng] 50-6084
Evidence for a fluidized till deposit on the Ross Sea continental shelf. Jahns, E., [1994,eng] 50-2695
Evolving front of the Ross Ice Shelf. Keys, H.J.R., et al., [1994,eng] 50-2693
Gas measurement with large Venturi tubes at Prudhoe Bay, Alaska. Metz, W.P., et al., [1991,eng] 50-1759
Ice flow observations along traverse routes from the coast to Dome Fuji. Motoyama, H., et al., [1995,eng] 50-1692
Ice thickness on Lewis Cliff Ice Tongue, 1993-1994. Echelmeyer, K., et al., [1994,eng] 50-1887
Ice velocities near a relic flow feature on Siple Dome. Jacobel, R.W., et al., [1994,eng] 50-1891
Internal layer folding patterns from radar studies of ice streams B and C. Jacobel, R.W., et al., [1994,eng] 50-1892
Probability distributions for peak stage on rivers affected by ice jams. Tuthill, A.M., et al., [1996,eng] 50-4754

Fluid dynamics

- Stratigraphy and physics of the Taylor Dome ice core. Fitzpatrick, J.J., [1994,eng] 50-1900
 Surface ice flow and anisotropic internal radar echoes in Queen Maud Land ice sheet. Maeno, H., et al., [1995,eng] 50-2577
See [also]: Water transport

Fluid dynamics

- ADCP-referenced geostrophic circulation in the Bering Sea basin. Cokelet, E.D., et al., [1996,eng] 50-6635
 Avalanche modeling in concave and convex chutes. Greve, R., et al., [1993,eng] 50-1209
 Climatological aspects of cyclone development and decay in the Arctic. Serreze, M.C., [1995,eng] 50-599
 Contrast between natural and simulated snowdrift experiments. Naaim-Bouvet, F., [1995,eng] 50-1063
 Diffusive properties of polymer membranes prepared by freeze/thaw techniques. Hickey, A.S., et al., [1995,eng] 50-2698
 Effects of anti-icing fluid on wing lift during supercooled precipitation. Bouchard, G., et al., [1995,eng] 50-3255
 Effects of steam quality on cyclic steam stimulation at Cold Lake, Alberta. Ho, D.W., et al., [1991,eng] 50-1703
 Gas measurement with large Venturi tubes at Prudhoe Bay, Alaska. Metz, W.P., et al., [1991,eng] 50-1759
 Heat flux monitoring during cryogenic pipe freezing: a case study. Tavner, A.C.R., et al., [1996,eng] 50-5477
 Ice streams in Antarctica: transverse instability of gravity driven flow. Minale, M., et al., [1996,eng] 50-3722
 Interaction between multiple line plumes: a model study with applications to leads. Ching, C.Y., et al., [1996,eng] 50-4408
 Liquid ice melting along a bundle of heated cylinders. Yamada, M., et al., [1996,eng] 50-4965
 Measurements of powder snow avalanche—nature. Nishimura, K., et al., [1995,eng] 50-1058
 Measurements of powder snow avalanches—laboratory. Keller, S., [1995,eng] 50-1059
 Melting driven thermohaline convection. Bénard, C., et al., [1996,eng] 50-3611
 Method for continuous measurement of ice cover thickness. Nordell, B., et al., [1995,eng] 50-1145
 Natural freeze-thaw dewatering of aerated lagoon sludges. Desjardins, M.A., et al., [1996,eng] 50-5808
 Nucleation rates in freezing of molecular clusters. Bartell, L.S., [1995,eng] 50-2346
 Oil recovery from Alaskan tar sands using electromagnetic heating. Islam, M.R., et al., [1991,eng] 50-1760
 Oil-soluble resin-diverting agents in Prudhoe Bay acidizing operations. Strassner, J.E., et al., [1991,eng] 50-1698
 Oil-soluble resin-diverting agents in Prudhoe Bay acidizing operations. Strassner, J.E., et al., [1991,eng] 50-1698
 Physical and geochemical properties across the Atlantic/Pacific water mass front in the southern Canadian Basin. McLaughlin, F.A., et al., [1996,eng] 50-2845
 Possible consequences of glacially induced groundwater flow. Forsberg, C.F., [1996,eng] 50-5325
 Profiles of particle characteristics in blowing snow. Naaim, M., et al., [1995,eng] 50-1062
 Prudhoe Bay field, Alaska, waterflood injection water quality and remedial treatment study. Hsi, C.D., et al., [1991,eng] 50-1700
 Real-time operational forecasting on shipboard of the Iceland-Faeroe frontal variability. Robinson, A.R., et al., [1996,eng] 50-4742
 Response of a circular ice floe to ocean waves. Meylan, M.H., et al., [1996,eng] 50-5264
 Solidification of pure liquids and liquid mixtures inside ducts and over external bodies. Fukusako, S., et al., [1994,eng] 50-2348
 Solidification of water in a buried pipe. Negiz, A., et al., [1995,eng] 50-1967
 Subtidal and tidal currents in the vicinity of the Iceland-Faeroes front. Allen, J.T., [1995,eng] 50-159
 Supercooled liquids. Mohanty, U., [1995,eng] 50-1405
 Thermal calculation for anti-icer with micro-ejector. Qui, X.G., et al., [1995,eng] 50-1067
 Thermohaline characteristics of the shelf fronts in the western Bering Sea. Verkhunov, A.V., [1995,eng] 50-2533
 Thixotropic, crosslinking polymer/borate/salt plug: development and application. Powell, J.W., et al., [1991,eng] 50-1707
 Three-layer model of flow under the ice cover in rivers. Debořskii, V.K., et al., [1995,eng] 50-352
 Tracer experiments to determine subglacial pressurized flow in Storglaciären. Kohler, J., [1995,eng] 50-445
 Transport of chemical species from the northern polar vortex. Norton, W.A., et al., [1995,eng] 50-5917
 Viscosity of fluidized snow. Nishimura, K., [1996,eng] 50-5465

Fluid flow

- Theory of lattice Boltzmann simulations of glacier flow. Bahr, D.B., et al., [1995,eng] 50-1883
 Wellbore multiphase-flow correlation for the eastern operating area of Prudhoe Bay. Bradley, D.A., [1991,eng] 50-1728
See [also]: Air flow; Glacier flow; Laminar flow; Pipe flow; Rheology; River flow; Shear flow; Stream flow; Turbulent flow; Unsteady flow; Viscous flow; Water flow

Fluid infiltration

- See [also]:* Seepage

Fluid mechanics

- Cratering phenomena on aircraft anti-icing films. La Due, J., et al., [1996,eng] 50-4219
 Introductory analysis of boundary-layer development on de/anti-icing fluid. Perron, E., et al., [1996,eng] 50-4217

Fluids

- See [also]:* Liquids

Flumes

- See [also]:* Channels (waterways)

Foam plastics

- See [also]:* Cellular plastics

Fog

- Generating artificial fog. Walter, C., [1995,eng] 50-5072
 Mountainous meteorology, climatology and aerology of the lower layers of troposphere. Panenka, I., ed., [1991,eng] 50-3518

- Reflection of weather conditions in the chemistry of horizontal fog/cloud precipitation. Škvarčina, J., et al., [1991,eng] 50-3522

- Simple model to estimate atmospheric concentrations of aerosol chemical species based on snow core chemistry at Summit, Greenland. Bergin, M.H., et al., [1995,eng] 50-3097

- Temporal weather impacts upon exterior intrusion detection systems. Ryerson, C.C., et al., [1995,eng] 50-4544

- See [also]:* Advection fog; Ice fog

Fog dispersal

- Interaction of arctic fogs with aerosols. Nilsson, E.D., et al., [1996,eng] 50-4318

- Model of arctic radiation fog trace gas processing. Bergin, M.H., et al., [1996,eng] 50-5764

Fog formation

- Ice-crystal fogs of central Sakha. Osipov, D.A., [1995,eng] 50-4702

- Interaction of arctic fogs with aerosols. Nilsson, E.D., et al., [1996,eng] 50-4318

- Model of arctic radiation fog trace gas processing. Bergin, M.H., et al., [1996,eng] 50-5764

Foliage

- See [also]:* Forest canopy

Footings

- Church building foundation retrofit on Saint Lawrence I. Crowther, G.S., [1996,eng] 50-6130

- See [also]:* Foundations; Pavement bases; Permafrost bases

Forecasting

- Accuracy of SPOT digital elevation model and derivatives: utility for Alaska's North Slope. Sasowsky, K.C., et al., [1992,eng] 50-1448

- Application of pipe temperature simulator for Norman Wells oil pipeline. Nixon, J.F., et al., [1996,eng] 50-4306

- Arctic vegetation types as response predictors to global change. Chapin, F.S., III, et al., [1996,eng] 50-6557

- Assessment of the use of deicing salts. Breitenstein, J., [1996,ger] 50-3617

- Avalanche book. Armstrong, B.R., et al., [1992,eng] 50-863

- Building a glaciological information system for a surging glacier. Garelik, I.S., et al., [1994,eng] 50-3489

- Calculated and measured air and soil freeze-thaw frequencies. Baker, D.G., et al., [1995,eng] 50-1217

- Calculating the interaction of processes in the free troposphere and boundary layer. Baranov, G.I., et al., [1990,eng] 50-319

- Calculation of the strength of the ice cover during breakup of rivers. Ginzburg, B.M., et al., [1995,eng] 50-351

- Canadian contribution to the Paleoclimate Model Intercomparison Project (PMIP). Jetté, H., [1995,eng] 50-1449

- Catastrophic storm surges in the southern part of the Laptev Sea. Ashik, I.M., et al., [1995,eng] 50-2068

- Characteristics of forecasting energy consumption in the mining industry. Kuznetsov, N.M., [1992,eng] 50-714

- Climate change in mountain environments. Willis, I., et al., [1995,eng] 50-1522

- Cloud structure derived from remote sensing measurements. Sassen, K., [1984,eng] 50-4921

- Comments and reply on paper of Venkatesh et al. Marko, J.R., et al., [1995,eng] 50-601

- Comparison between neural network and statistical snowfall prediction methods. McGinnis, D.L., [1994,eng] 50-4356

- Comparison of geostatistical methodologies used to estimate snow water equivalent. Carroll, S.S., et al., [1996,eng] 50-4409

- Comparison of load restriction timings determined using FHWA guidelines and frost tubes. Yesiller, N., et al., [1996,eng] 50-4752

- Controls on glacier surging in Svalbard. Hamilton, G.S., et al., [1996,eng] 50-4900

- Degradation of the cryolithozone in Russia under global climatic warming. Ershov, E.D., et al., [1996,eng] 50-6840

- Determining the geocological stability of the cryolithozone. Osadchaia, G.G., et al., [1996,eng] 50-6851

- Developing methods for forecasting seismic effects under cryolithozone conditions. Dzhurik, V.I., et al., [1996,eng] 50-6834

- Differences in the duration of snow cover on Scottish ski-slopes between mild and cold winters. Harrison, S.J., [1993,eng] 50-3014

- Dry-flowing avalanche run-up and run-out. McClung, D.M., et al., [1995,eng] 50-456

- DTR and cloudcover in the Nordic countries: observed trends and estimates for the future. Kaas, E., et al., [1994,eng] 50-3027

- Durability cracking from freeze-thaw in concrete. Janssen, D.J., et al., [1986,eng] 50-2801

- Effect of frozen ground strength on hardening performance of the Hard Mobile Launcher. Chamberlain, E.J., et al., [1989,eng] 50-3042

Forecasting

- Effects of climatic change on permafrost in the arid and semi-arid regions of China. Xie, Y.Y., [1995,eng] 50-3391

- Engineers in Bosnia: an overview. Treleven, D.L., [1996,eng] 50-5144

- Estimating deformation in river floodplains under conditions of human activity. Zimichev, V.P., [1991,eng] 50-1306

- Estimation of the effect of operational seeding on rain amounts in Israel. Nirel, R., et al., [1995,eng] 50-1218

- Forecast of rain erosion of tundra soils on the Yamal Peninsula. Grigor'ev, V.I.A., et al., [1996,eng] 50-5448

- Forecasting deformation properties of thawing sandy soils according to data from compression tests. Gerasimov, A.S., et al., [1989,eng] 50-2300

- Forecasting gully erosion in Yamburg. Skubitskaia, M.G., [1996,eng] 50-6406

- Forecasting of maximum observed frequencies on high latitude short-wave radio lines. Egorova, L.V., et al., [1991,eng] 50-2268

- Forecasting the composition of post-lacustrine meadows in the Yakutsk Arctic. Bosikov, N.P., [1991,eng] 50-1310

- Forecasting the state of permafrost during climatic warming. Cherniad'ev, V.P., et al., [1993,eng] 50-4112

- Forecasting the thermal regime of thin-walled moored structures under Arctic conditions. Shkola, A.V., et al., [1992,eng] 50-757

- Geostatistical analysis of waterflood recoveries from an Alaskan drillsite. Wolcott, D.S., et al., [1991,eng] 50-1757

- Gulf Canada probabilistic ice load model: operation and parametric sensitivity study. Watson, D.A., et al., [1995,eng] 50-1413

- Heat content of the ocean baroclinic layer as a predictor of variability of atmospheric circulation. Vangengeim, T.G., et al., [1990,eng] 50-333

- Heuristic model for sea level rise due to the melting of small glaciers. Wigley, T.M.L., et al., [1995,eng] 50-1215

- Hindsight on river ice jam stability. Beltaos, S., [1996,eng] 50-6425

- Hydrogen sulfide forecasting techniques for the Kuparuk River. Field, Frazer, L.C., et al., [1991,eng] 50-1729

- Ice cloud microphysics in a general circulation model, pt. 1. Fowler, L.D., et al., [1996,eng] 50-5015

- Ice sheets, climate change and sea level. Drewry, D., [1996,eng] 50-3411

- Ice-crystal fogs of central Sakha. Osipov, D.A., [1995,eng] 50-4702

- Incorporating airborne data into the spatial model used to estimate snow water equivalent. Carroll, S.S., et al., [1993,eng] 50-5146

- Links between the lowest observed frequencies and errors in their forecasting at high latitudes. Ignatov, V.S., et al., [1991,eng] 50-2266

- Mathematical model of pollution vectors in the arctic basin. Krapivin, V.F., et al., [1996,eng] 50-3412

- Methane in frozen rocks and some aspects of forecasting its emission. Rivkin, F.M., [1996,eng] 50-6383

- Method of determining the surface boundary conditions for geocryological forecasting. Ershov, E.D., et al., [1996,eng] 50-6838

- Methodological prerequisites for using time analogy methods in frozen ground mechanics. Roman, L.T., et al., [1996,eng] 50-6830

- Mixed-phase cloud scheme based on a single prognostic equation. Tremblay, A., et al., [1996,eng] 50-6665

- Model for measuring PAH deposits on snow. Sharma, M., et al., [1995,eng] 50-3037

- Modelling the controls on boreal tree species range limits. Sykes, M.T., et al., [1995,eng] 50-770

- Natural orthogonal components of winter anomalies in the surface air temperature field. Vangengeim, T.G., et al., [1990,eng] 50-332

- New concept in studying and forecasting frost heave. Nevech'ria, V.L., [1996,eng] 50-6398

- New formulation for the Bowen ratio over saturated surfaces. Andreas, E.L., et al., [1996,eng] 50-6570

- Numerical prediction of sea surges and ice conditions on the Laptev and East-Siberian Sea. Ashik, I.M., [1995,eng] 50-2069

- On forecasting extreme average daily air temperatures in the Kara Sea. Korzhikov, A.I.A., [1990,eng] 50-324

- Organization of regional forecasting services using oblique sounding of the ionosphere. Khodzha-Akhmedov, Ch.L., [1991,eng] 50-2262

- Permafrost foundation creep prediction from cone penetration tests. Ladanyi, B., et al., [1995,eng] 50-1825

- Power law determination of ice crystal particle velocities. Mitchell, D.L., [1996,eng] 50-6558

- Predicting brick frost resistance. II. Robinson, G.C., et al., [1995,eng] 50-1961

- Predicting the maximum available frequencies using a numerical model of the high latitude ionosphere. Vovk, V.I.A., et al., [1991,eng] 50-2267

- Prediction of permafrost temperature in bed of structure from field data. Khristalev, L.N., et al., [1995,eng] 50-345

- Prospects for using geochronological methods in forecasting and evaluating technogenic talik zones. Tregubov, O.D., [1996,eng] 50-6855

- Real-time operational forecasting on shipboard of the Iceland-Faeroe frontal variability. Robinson, A.R., et al., [1996,eng] 50-4742

- Reexamination of the formation of exhaust condensation trails by jet aircraft. Hanson, H.M., et al., [1995,eng] 50-1248

Forest canopy

- Regional forecasting of cryogenic processes and ecology of the cryolithozone. Grechishchev, S.E., [1990,rus] 50-1598
 Response of a research aircraft to icing and evaluation of severity indices. Politovich, M.K., [1996,eng] 50-4406
 RIVER3: simulation of river discharge and sediment transport. Syvitski, J.P.M., et al. [1995,eng] 50-3597
 Snow parameters for vehicle mobility modeling. Horrigan, T., et al. [1995,eng] 50-2708
 Soils in frozen regions of the biosphere, their function and use. Makeev, O.V., [1990,rus] 50-21
 Spatially distributed energy balance snowmelt model. Tarboton, D.G., et al. [1995,eng] 50-2407
 Stability of tundra ecosystems and forecasting their reaction to anthropogenic transformation. Vil'chek, G.E., [1995,rus] 50-3970
 Technogenic dynamics of oil field terrain in the cryolithozone. Popkov, O.N., [1996,rus] 50-6852
 Terrestrial component of the cryosphere. Melnikov, P.A., et al. [1993,eng] 50-5483
 Wellbore multiphase-flow correlation for the eastern operating area of Prudhoe Bay. Bradley, D.A., [1991,eng] 50-1728
 See [also]: Avalanche forecasting; Flood forecasting; Frost forecasting; Ice forecasting; Long range forecasting; Permafrost forecasting; Runoff forecasting; Weather forecasting

Forest canopy

- Afforestation control of disastrous snow drifting on rugged terrains in Xinjiang. Hu, R.J., et al. [1994,eng] 50-4000
 Albedo of forest with crown snow. Yamazaki, T., et al. [1996,jpn] 50-3501
 Controls of canopy structure on snowmelt rates in the boreal forest. Metcalfe, R.A., et al. [1995,eng] 50-3130
 Evolution of factors affecting gas transmissivity of snow in the boreal forest. Hardy, J.P., et al. [1995,eng] 50-2398
 Initial assessment of multi-scale measures of CO₂ and H₂O flux in the Siberian taiga. Hollinger, D.Y., et al. [1995,eng] 50-3810
 Mapping snow cover during the BOREAS winter experiment. Hall, D.K., et al. [1995,eng] 50-3105
 Model of effects of global warming of water balance of subarctic forest ecosystems. Kellomäki, S., et al. [1996,eng] 50-4750
 Ozone deposition in a snow-covered subalpine spruce-fir forest environment. Zeller, K., et al. [1995,eng] 50-2394
 Ozone deposition in a subarctic woodland, pt.1. Munger, J.W., et al. [1996,eng] 50-6641
 Radiative characteristics in forest during snowmelt season. Nakabayashi, H., et al. [1996,jpn] 50-4936
 Response of alpine vegetation canopy to experimental wind barrier. Smith, B., et al. [1996,eng] 50-3786
 Satellite radar detection of Alaskan forest ecosystem types. Harrell, P.A., et al. [1995,eng] 50-3493
 Seasonal radar backscatter variation from boreal forests. Pulliainen, J.T., et al. [1996,eng] 50-4765
 Snow damage to spruce trees during a fertilization experiment. Valinger, E., et al. [1996,eng] 50-4330
 Snow mass in boreal forests derived from a modified passive microwave algorithm. Foster, J.L., et al. [1995,eng] 50-3718
 Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-2461
 Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-3129
 Snow-mass intercomparisons in the boreal forests. Foster, J., et al. [1996,eng] 50-5837
 Spectral quality and absorption of solar radiation in a mountain birch forest, Abisko, Sweden. Ovsted, M., et al. [1995,eng] 50-2813
 Surface water chemistry in alpine watersheds. Stottlemeyer, R., et al. [1995,eng] 50-2424

Forest ecosystems

- 6 ka BP reconstruction for Newfoundland from pollen records. Macpherson, J.B., [1995,eng] 50-1459
 Acclimation of tree function and structure to climate change and implications to forest carbon balance. Hari, P., et al. [1994,eng] 50-3204
 Active layer changes following forest tundra fire. Mackay, J.R., [1995,eng] 50-2807
 Assessing and responding to the effects of climate change on forest ecosystems. Spittlehouse, D.L., [1996,eng] 50-4068
 Assessment of the impact of the greenhouse gas emission and sink scenarios in Finland. Pipatti, R., et al. [1994,eng] 50-3234
 Assessment on the diversity and status of the alpine plants of Indian Himalaya. Samant, S.S., [1994,eng] 50-5424
 Atmospheric deposition and pollutant exposure of eastern U.S. forests. Mohonen, V.A., [1992,eng] 50-4052
 Atmospheric deposition at Niwot Ridge, CO. Rusch, D., et al. [1995,eng] 50-2395
 Atmospheric deposition effects on foliar injury and foliar leaching in red spruce. Schier, G.A., et al. [1992,eng] 50-4056
 Biodiversity and climate in the coastal temperate rainforests of North America. Alaback, P.B., [1996,eng] 50-4063
 Biodiversity of Canadian forests, with particular reference to the west coast forests. Boyle, T.J.B., [1996,eng] 50-4071
 Biological productivity of Siberian ecosystems. Bazilevich, N.I., [1995,eng] 50-2713
 Biomass burning recorded in the GISP2 ice core: a record from eastern Canada? Taylor, K.C., et al. [1996,eng] 50-4370
 Biomass, primary production, and nutrient dynamics in a Himalayan forest. Rawat, Y.S., et al. [1994,eng] 50-5435

- Boreal ecosystem development in the northwestern Alaska Range since 11,000 yr BP. Hu, F.S., et al. [1996,eng] 50-4581
 Boreal forest catchments: research sites for global change at high latitudes. Slaughter, C.W., et al. [1995,eng] 50-767
 Characterization of eastern U.S. spruce-fir soils. Fernandez, I.J., [1992,eng] 50-4051
 Chemical and isotopic tracers of snowmelt flowpaths in a subalpine watershed. Miller, E.K., et al. [1995,eng] 50-2427
 Chemistry of artificial snow and its influence on the germination of mountain flora. Jones, H.G., et al. [1995,eng] 50-2428
 Condition and recent trends in high-elevation red spruce populations. Peart, D.R., et al. [1992,eng] 50-4053
 Constraints on primary productivity in the coastal temperate forests of the Americas. Waring, R.H., et al. [1996,eng] 50-4062
 Decomposition of needle litter in a forest ecosystem. Berg, B., et al. [1995,eng] 50-2731
 Dendroecology of red spruce decline. Cook, E.R., et al. [1992,eng] 50-4054
 Diversity of pine forests in the Lapland State Reserve, the Kola Peninsula. Neshataev, V.I.U., et al. [1995,eng] 50-3174
 Dry depositional loading of nitrogen to an alpine snowpack. Niwot Ridge, Colorado. Cress, R.G., et al. [1995,eng] 50-2396
 Early Tertiary vegetation and paleoclimatology of arctic Canada. Basinger, J.F., et al. [1994,eng] 50-905
 Ecology and conservation management of cool temperate rainforest in Tasmania. Brown, M.J., et al. [1996,eng] 50-4069
 Ecology and decline of red spruce in the eastern United States. Eagar, C., et al. [1992,eng] 50-4049
 Effects of air pollution on carbon allocation in red spruce. McLaughlin, S.B., et al. [1992,eng] 50-4058
 Effects of smelter emissions on pine tree frost hardiness. Sutinen, M.L., et al. [1996,eng] 50-4309
 Effects of tree litter decomposition on forest soil composition. Harris, M.M., et al. [1996,eng] 50-3309
 Effects of understory alder on forest soil fertility. Wurtz, T.L., [1995,eng] 50-1090
 Environmental biology of a tropical treeline species, *Polylepis sericea*. Goldstein, G., et al. [1994,eng] 50-3050
 Estimates of North American tundra ecosystem biomass. Gilmanov, T.G., et al. [1995,eng] 50-4864
 Evolution of factors affecting gas transmissivity of snow in the boreal forest. Hardy, J.P., et al. [1995,eng] 50-2398
 Extreme fire seasons in the forests of Evenkia. Ivanova, G.A., [1995,eng] 50-4700
 Fine root production and decomposition on drained peatlands. Finer, L., et al. [1994,eng] 50-3217
 Forest changes in the Great Lakes region at 5-7 ka BP. Anderson, T.W., [1995,eng] 50-1456
 Forest dynamics and disturbance in the temperate rainforests of the Americas. Veblen, T.T., et al. [1996,eng] 50-4065
 Forest fire of May 6, 1987, in the Greater Khingan Range. Lou, Y.H., [1991,chi] 50-5853
 Forest resources of Qinghai. Sun, X.R., ed. et al. [1988,chi] 50-5822
 Fossil plants as palaeoenvironmental indicators. Chaloner, W.G., [1994,eng] 50-894
 Global climate change adaptation: examples from Russian boreal forests. Dixon, R.K., et al. [1996,eng] 50-5056
 Habitats and forest types in the mountains of southeastern Xizang. Xu, F.X., [1992,chi] 50-1484
 Herb germination ecology in Yellowstone National Park. Romme, W.H., et al. [1995,eng] 50-2816
 High altitude forests with special reference to timber line in Kumaun, central Himalaya. Rawal, R.S., et al. [1994,eng] 50-5434
 High altitudes of the Himalaya (biogeography, ecology & conservation). Pangtey, Y.P.S., ed. et al. [1994,eng] 50-5415
 High-latitude forest ecophysiology during global warming. Kohlmaier, G.H., et al. [1995,eng] 50-771
 High-latitude rainforests and associated ecosystems of the west coast of the Americas. Lawford, R.G., ed. et al. [1996,eng] 50-4060
 Hydrological processes contributing to nitrogen leaching. Lepistö, A., [1996,eng] 50-5599
 Impact of fires on mountain sod-taiga soils under larch forests in Mongolia. Krasnoshechekov, I.U.N., [1995,eng] 50-2715
 Impact of global warming on tundra and forest ecosystems. Plochl, M., et al. [1995,eng] 50-4865
 Implications of patch dynamics for forested ecosystems in the Pacific Northwest. Bradshaw, G.A., et al. [1996,eng] 50-4067
 Initial phase of postfire forest regeneration in two lichen woodlands of northern Québec. Sirois, L., [1995,eng] 50-2158
 Ladaikh: an update on natural resources. Dhar, U., et al. [1994,eng] 50-5423
 Late Holocene record of aeolian and fire activity in northern Québec, Canada. Filion, L., et al. [1991,eng] 50-3304
 Leaching of organic carbon and nitrogen from forested catchments. Kortelainen, P., et al. [1994,eng] 50-3221
 Measurements of Alaskan spring atmospheric ozone content. Beine, H.J., et al. [1996,eng] 50-6640
 Measurements of upward turbulent ozone fluxes above a subalpine spruce-fir forest. Zeller, K., et al. [1996,eng] 50-5289
 Microsporogenesis of the Siberian larch in western Siberia. Zapolyar, E. Rozhdestvenski, I.U.F., et al. [1995,eng] 50-3966
 Model for the development of sod-podzolic soils by windthrow. Vasenev, I., et al. [1995,eng] 50-2712

- Model of effects of global warming of water balance of subarctic forest ecosystems. Kellomäki, S., et al. [1996,eng] 50-4750
 Modelling mechanism of wind-induced damage of Scots pine. Peltola, H., [1994,eng] 50-3212
 Modelling the controls on boreal tree species range limits. Sykes, M.T., et al. [1995,eng] 50-770
 Mountain hemlock expansion in a subalpine ecosystem. Taylor, A.H., [1995,eng] 50-3321
 Northern forest plants under the pressure of environmental changes. Laine, K., et al. [1994,eng] 50-3231
 Nutrient availability in Alaskan upland forest sites. Yarie, J., et al. [1994,eng] 50-4798
 Ozone deposition in a snow-covered subalpine spruce-fir forest environment. Zeller, K., et al. [1995,eng] 50-2394
 Paleoclimatological record of 6 ka BP climate in the Canadian prairie provinces. Vance, R.E., et al. [1995,eng] 50-1455
 Paleoclimatological study of forest lines in southern Sweden. Björkman, L., [1995,eng] 50-6080
 Paleoclimatology of Swedish bogs. Segerström, U., et al. [1996,eng] 50-4373
 Paleovegetation and paleoclimatic changes in the Yukon at 6 ka BP. Cwynar, L.C., et al. [1995,eng] 50-1451
 Past changes in climate and tree growth in the western Americas. D'Arrigo, R.D., et al. [1996,eng] 50-4061
 Phenotype and chromosome variability in larch in Ural forest ecosystems. Putenikhin, V.P., et al. [1994,rus] 50-270
 Phytogeographic relationships in the cool temperate rainforests of Chile. Arroyo, M.T.K., et al. [1996,eng] 50-4064
 Potential climatic change effects on western Canadian forests. Burton, P.J., et al. [1995,eng] 50-769
 Preliminary study on the growth rate of major forest communities in the Greater Khingan Range. Gu, Y.C., [1991,chi] 50-5851
 Protected areas and conservation of rare endemic plants in the Himalaya. Rawat, G.S., [1994,eng] 50-5422
 Recovery characteristics for forest ecosystems after fires. Gorshkov, V.V., et al. [1992,eng] 50-3407
 Reestablishment and protection of biodiversity in the European taiga. Anufriev, V.M., [1994,rus] 50-284
 Reflection of weather conditions in the chemistry of horizontal fog/cloud precipitation. Škvarčina, J., et al. [1991,eng] 50-3522
 Response functions of tree-ring chronologies in western Tianshan Mountains. Yuan, Y.J., et al. [1995,chi] 50-5626
 Response of boreal forest ecosystems to climatic change and its silvicultural implications: modelling. Kellomäki, S., et al. [1994,eng] 50-3209
 Response of soil carbon to climate change. McGuire, A.D., et al. [1995,eng] 50-4866
 Response of the boreal forest ecosystem to climatic change and its silvicultural implications. Kellomäki, S., ed. [1994,eng] 50-3207
 Results from the 1994 Boreal Ecosystem-Atmosphere Study (BOREAS). Sellers, P., et al. [1995,eng] 50-4574
 SAR interferometric signatures of forest. Wegmüller, U., et al. [1995,eng] 50-981
 Satellite radar detection of Alaskan forest ecosystem types. Harrell, P.A., et al. [1995,eng] 50-3493
 Seasonal radar backscatter variation from boreal forests. Pulliainen, J.T., et al. [1996,eng] 50-4765
 Seasonal variability in CO₂ transport through snow in a boreal forest. Winston, G.C., et al. [1995,eng] 50-2399
 Sharp and gradual mountain timberlines as a result of species interaction. Armand, A.D., [1992,eng] 50-4073
 Siberian tundra CO₂ flux as a source of seasonal CO₂ variations. Zimov, S.A., et al. [1996,eng] 50-5868
 Simulation of Scots pine regeneration under changing Finnish climate. Kellomäki, S., et al. [1995,eng] 50-1089
 Snow-vegetation relations in the forest tundra of New Quebec. Hudson Bay. Payette, S., et al. [1973,fre] 50-2852
 Soil-mediated effects of atmospheric deposition on eastern U.S. spruce-fir forests. Johnson, D.W., et al. [1992,eng] 50-4055
 Spruce succession, disturbance, and geomorphology on the Tanana River floodplain, Alaska. Mann, D.H., et al. [1995,eng] 50-2159
 Spruce-fir forests of eastern North America. White, P.S., et al. [1992,eng] 50-4050
 Surface water chemistry in alpine watersheds. Stottlemeyer, R., et al. [1995,eng] 50-2424
 Synthesis and conclusions from studies of red spruce decline. Johnson, A.H., et al. [1992,eng] 50-4059
 Taiga climate. Bonan, G.B., [1996,eng] 50-5000
 Taymyr Peninsula vegetation response to climatic changes. Koshkarova, V.L., [1995,eng] 50-4701
 Temporal redistribution of subalpine meadow trees. Rochefort, R.M., et al. [1996,eng] 50-4336
 Towards a review of Tertiary palaeobotany in the boreal realm. Boulter, M.C., [1994,eng] 50-893
 Tree establishment in subalpine meadows. Woodward, A., et al. [1995,eng] 50-3322
 Tree regeneration in Colorado forest-tundra ecosystem. Weisberg, P.J., et al. [1995,eng] 50-3295
 Trichloroacetic acid in conifer needles and arboreal lichens in forest environments. Juuti, S., et al. [1996,eng] 50-4206
 Vegetation and climate of maritime Canada 6000 years BP: a synthesis. Jenf, H., et al. [1995,eng] 50-1458
 Forest fires
 Biomass burning recorded in the GISP2 ice core: a record from eastern Canada? Taylor, K.C., et al. [1996,eng] 50-4370

Forest land

- Cadline rehabilitation and restoration. Bolstad, R., [1971.eng] 50-3245
- Determination of alpine treeline variations from soil charcoal sediments. Carcaillet, C., et al. [1996.eng] 50-4746
- Ecology and conservation management of cool temperate rain-forest in Tasmania. Brown, M.J., et al. [1996.eng] 50-4069
- Effects of fire in the taiga on the environment. Lotspeich, F.B., et al. [1971.eng] 50-3244
- Extreme fire seasons in the forests of Evenkia. Ivanova, G.A., [1995.eng] 50-4700
- Forest fire of May 6, 1987, in the Greater Khingan Range. Lou, Y.H., [1991.chi] 50-5853
- Forest fire records inferred from Greenland ice core chemistry. Legrand, M., et al. [1996.eng] 50-3447
- Impact of fires on mountain sod-taiga soils under larch forests in Mongolia. Krasnoshechekov, I.U.N., [1995.eng] 50-2715
- Influence of forest fire aerosols on sampling of polar atmospheres. Polissar, A.V., et al. [1996.eng] 50-5206
- Initial phase of postfire forest regeneration in two lichen woodlands of northern Québec. Sirois, L., [1995.eng] 50-2158
- Paleoecological study of fire-induced lake water acidity variations. Korhola, A., et al. [1996.eng] 50-5020
- Paleoecology of Finnish lacustrine deposits. Sarmaja-Korjonen, K., [1995.eng] 50-4738
- Permafrost soil thawing after forest fires. Swanson, D.K., [1996.eng] 50-5497
- Recovery characteristics for forest ecosystems after fires. Gorshkov, V.V., et al. [1992.eng] 50-3407
- Restoration of the burned forest area in the Greater Khingan Range. Cheng, H.Z., [1991.chi] 50-5854
- Restoration of the forest fire disaster area in the Greater Khingan Range. Wang, S.X., [1991.chi] 50-5855
- Technological effects on tundra ecosystems and the recultivation of disturbed territory. Sumina, O.I., [1992.rus] 50-3406
- Use of remote sensing spacecraft in real-time support for disaster management. Tortorici Montaperto, A., et al. [1992.eng] 50-620
- Forest land**
- Assessing sensitivities of forests to climate change. Fischlin, A., [1995.eng] 50-1018
- Avalanche hazard mapping with satellite data and a digital elevation model. Gruber, U., et al. [1995.eng] 50-2345
- Boreal forest and the polar front. Pielke, R.A., et al. [1995.eng] 50-2847
- Controls of canopy structure on snowmelt rates in the boreal forest. Metcalfe, R.A., et al. [1995.eng] 50-3130
- Diversity of pine forests in the Lapland State Reserve, the Kola Peninsula. Neshataev, V.I.U., et al. [1995.eng] 50-3174
- Effect of forest drainage on the carbon balance of peatland ecosystems. Laine, J., et al. [1994.eng] 50-3224
- Effects of contour-line strip-cutting of trees on snowmelt runoff. Shimizu, T., et al. [1996.jpn] 50-3500
- Estimation of biomass and other characteristics of boreal forest. Häme, T., et al. [1994.eng] 50-3228
- Finnish research programme on climate change; second progress report. Kanninen, M., ed. et al. [1994.eng] 50-3179
- Forest damage mapping with multitemporal ERS-1 SAR data. Rauste, Y., [1994.eng] 50-3229
- Forest resources in Xinjiang. Xinjiang Resources Development Comprehensive Survey Team of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang ziyuan kaifazonghe kaochadi). [1989.chi] 50-5823
- Global climate change adaptation: examples from Russian boreal forests. Dixon, R.K., et al. [1996.eng] 50-5056
- Illustrated Hokkaido forestry—towards well-developed forests. [1990.jpn] 50-2170
- Land in Xinjiang conducive to poplar tree farming. Jia, Z.J., et al. [1991.chi] 50-5110
- Mapping snow cover during the BOREAS winter experiment. Hall, D.K., et al. [1995.eng] 50-3105
- Natural regeneration in cut forests of the Greater Khingan Range. Zhou, W.Q., [1991.chi] 50-5843
- Northern forest plants under the pressure of environmental changes. Laine, K., et al. [1994.eng] 50-3231
- Northern wilderness areas: ecology, sustainability, values. International Conference on Northern Wilderness Areas. Arctic Centre, University of Lapland, Rovaniemi, Finland, Dec. 7-9, 1994. [1995.eng] 50-3167
- Preliminary mycobiota (Ascomycota, Basidiomycota) of timberline forests in the West Siberian plateau. Kotiranta, H., [1995.eng] 50-3168
- Radiative characteristics in forest during snowmelt season. Nakabayashi, H., et al. [1996.jpn] 50-4936
- Reestablishment and protection of biodiversity in the European taiga. Anufriev, V.M., [1994.rus] 50-284
- Regeneration in cut natural stands of Dahurian larch. Tu, C.H., et al. [1991.chi] 50-5844
- Report on acidification in the arctic countries. Nenonen, M., [1991.eng] 50-3418
- Snow cover in the Siberian forest-steppe. Zykov, I.V., [1965.eng] 50-3424
- Snow gliding measurements in subalpine forests and on alpine pastures. Höller, P., [1995.eng] 50-4673
- Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995.eng] 50-3129
- Snow-mass intercomparisons in the boreal forests. Foster, J., et al. [1996.eng] 50-5837
- Study on artificial acceleration of natural regeneration. Lou, Y.H., [1991.chi] 50-5845
- Tracks of forest roads in the privately owned forests of Hokkaido. [1990.jpn] 50-2294

- Typification of USSR surface territory for the aerospace monitoring system. Apostolov, I.U.S., et al. [1992.rus] 50-3405
- Forest lines**
- Adaptation of tree seedlings to subalpine meadow soil moisture variations. Kuuluvainen, T., et al. [1996.eng] 50-4337
- Afforestation control of disastrous snow drifting on rugged terrain in Xinjiang. Hu, R.J., et al. [1994.eng] 50-4000
- Alpine tree line soil erosion derived from bedrock geomorphological map analysis. Stocker, E., [1996.ger] 50-6678
- Arctic vegetation types as response predictors to global change. Chapin, F.S., III, et al. [1996.eng] 50-6557
- Characterizing multitemporal alpine snowmelt patterns for ecological inferences. Allen, T.R., et al. [1993.eng] 50-1447
- Determination of alpine treeline variations from soil charcoal sediments. Carcaillet, C., et al. [1996.eng] 50-4746
- Diatom, chrysophyte and protozoan distributions along a latitudinal transect in Fennoscandia. Pienitz, R., et al. [1995.eng] 50-4741
- Dynamics of montane treelines. Slatyer, R.O., et al. [1992.eng] 50-4072
- Early Tertiary vegetation and paleoclimatology of arctic Canada. Basinger, J.F., et al. [1994.eng] 50-905
- Ecology and conservation of alpine meadows in central Himalaya. India. Ram, J., et al. [1994.eng] 50-5418
- Effects of grazing on alpine vegetation in the Caucasus and the Rockies. Bock, J.H., et al. [1995.eng] 50-73
- Energy partitioning at treeline forest and tundra sites and its sensitivity to climate change. Lafleur, P.M., et al. [1995.eng] 50-600
- Environmental biology of a tropical treeline species, *Polyplexis sericea*. Goldstein, G., et al. [1994.eng] 50-3050
- High altitude (above timber-line) bryoflora of Kumaun Himalaya. Tewari, S.D., et al. [1994.eng] 50-5431
- High altitude forests with special reference to timber line in Kumaun, central Himalaya. Rawal, R.S., et al. [1994.eng] 50-5434
- High altitudes of the Himalaya (biogeography, ecology & conservation). Pangtey, Y.P.S., ed. et al. [1994.eng] 50-5415
- Himalaya, its ecology and biogeography: a review. Mani, M.S., [1994.eng] 50-5416
- Holocene solifluction at Okstindan, northern Norway: a reassessment. Worsley, P., [1993.eng] 50-829
- Holocene vegetation history of the eastern Qinghai-Xizang Plateau. Frenzel, B., [1994.ger] 50-4778
- Introduction to tropical alpine vegetation. Smith, A.P., [1994.eng] 50-3044
- Lake surface pollen sediments across the Siberian tree line. Clayden, S.L., et al. [1996.eng] 50-6746
- Methane emissions from wetlands at northern treeline. Rouse, W.R., et al. [1995.eng] 50-75
- Modelling the controls on boreal tree species range limits. Sykes, M.T., et al. [1995.eng] 50-770
- Mountain hemlock expansion in a subalpine ecosystem. Taylor, A.H., [1995.eng] 50-3321
- Paleoecological record of 6 ka BP climate in the Canadian prairie provinces. Vance, R.E., et al. [1995.eng] 50-1455
- Paleoecological study of forest lines in southern Sweden. Björkman, L., [1995.eng] 50-6080
- Past changes in climate and tree growth in the western Americas. D'Arrigo, R.D., et al. [1996.eng] 50-4061
- Pine tree distribution in the permafrost zone of the Greater Khingan Range. Lu, G.W., [1989.chi] 50-1346
- Plant communities in alpine habitat with special reference to Garhwal Himalaya. Rawat, D.S., et al. [1994.eng] 50-5420
- Pleistocene treeline fluctuation in the Swiss Alps. Tinner, W., et al. [1996.eng] 50-5487
- Preliminary habitat suitability index model for Himalayan musk deer. Rawat, G.S., [1994.eng] 50-5430
- Recent advance of the arctic treeline along the eastern coast of Hudson Bay. Lescop-Sinclair, K., et al. [1995.eng] 50-3041
- Recent white spruce dynamics at the subarctic alpine treeline of north-western Canada. Szeicz, J.M., et al. [1995.eng] 50-3036
- Seed germination and seedling growth of *Carex doerflingeri* growing on alpine zone of Mt. Fuji. Kibe, T., et al. [1993.eng] 50-956
- Sharp and gradual mountain timberlines as a result of species interaction. Armand, A.D., [1992.eng] 50-4073
- Spatial distribution of snow chemical load at the tundra-taiga transition. Pomeroy, J.W., et al. [1995.eng] 50-2412
- Taiga climate. Bonan, G.B., [1996.eng] 50-5000
- Tree regeneration in Coloradoan forest-tundra ecosystem. Weisberg, P.J., et al. [1995.eng] 50-3295
- Tree seedling and krummholz growth in the forest tundra of Rocky Mountain National Park. Weisberg, P.J., et al. [1995.eng] 50-72
- Tree-ring chronologies at the upper tree line in eastern Tibet. Bräuning, A., [1994.ger] 50-4780
- Treeline/midge correlation, Northwest Territories, Canada. Walker, I.R., et al. [1995.eng] 50-3326
- Vegetation cover of Québec-Labrador 6000 years BP: an essay. Richard, P.J.H., [1995.fre] 50-1457
- Vegetation of the continental Northwest Territories at 6 ka BP. MacDonald, G.M., [1995.eng] 50-1452
- Forest soils**
- Biomass, primary production, and nutrient dynamics in a Himalayan forest. Rawat, Y.S., et al. [1994.eng] 50-5435
- Carbon in boreal coniferous forest soil. Westman, C.J., et al. [1994.eng] 50-3203
- Characterization of eastern U.S. spruce-fir soils. Fernandez, I.J., [1992.eng] 50-4051

- Decomposition of needle litter in a forest ecosystem. Berg, B., et al. [1995.eng] 50-2731
- Effect of disturbance on forest soil microbiology in the Himalaya. Joshi, S.R., et al. [1994.eng] 50-5433
- Effects of tree litter decomposition on forest soil composition. Harris, M.M., et al. [1996.eng] 50-3309
- Effects of understory alder on forest soil fertility. Wurtz, T.L., [1995.eng] 50-1090
- Evaluation of respiration of Russian soils. Kudeiarov, V.N., et al. [1996.eng] 50-5086
- Evolution of soils in the basin of the middle reach of the Ber-elekh River (Upper Kolyma River). Pavlov, B.A., et al. [1995.eng] 50-3877
- Frost heaving of forest tree seedlings: a review. Goulet, F., [1995.eng] 50-6520
- Geographical patterns in the biological productivity of soil-and-vegetation associations. Bazilevich, N.I., [1995.eng] 50-3872
- Hydrologic role of soils and ecological methods of regulating water resources. Voronkov, N.A., [1995.eng] 50-3879
- Hydrological processes contributing to nitrogen leaching. Lepistö, A., [1996.eng] 50-5599
- Impact of fires on mountain sod-taiga soils under larch forests in Mongolia. Krasnoshechekov, I.U.N., [1995.eng] 50-2715
- Initial phase of postfire forest regeneration in two lichen woodlands of northern Québec. Sirois, L., [1995.eng] 50-2158
- Land in Xinjiang conducive to poplar tree farming. Jia, Z.J., et al. [1991.chi] 50-5110
- Model for the development of sod-podzolic soils by windthrow. Vasenev, I.I., et al. [1995.eng] 50-2712
- Northern forest plants under the pressure of environmental changes. Laine, K., et al. [1994.eng] 50-3231
- Nutrient availability in Alaskan upland forest sites. Yarie, J., et al. [1994.eng] 50-4798
- Periglacial overlying strata in the Bavarian forest. Völkel, J., [1993.eng] 50-1679
- Pleistocene treeline fluctuation in the Swiss Alps. Tinner, W., et al. [1996.eng] 50-5487
- Seasonal variability in CO₂ transport through snow in a boreal forest. Winston, G.C., et al. [1995.eng] 50-2399
- Soil properties beneath ceanothus and pine stands in the eastern Sierra Nevada. Johnson, D.W., [1995.eng] 50-630
- Soil-mediated effects of atmospheric deposition on eastern U.S. spruce-fir forests. Johnson, D.W., et al. [1992.eng] 50-4055
- Taiga climate. Bonan, G.B., [1996.eng] 50-5000
- Typization of elementary soil-cover structures occurring in European Russia. Simakova, M.S., [1995.eng] 50-3878
- Forest strips**
- Swedish forest production losses due to summer frost. Verwijst, T., et al. [1996.eng] 50-6753
- See [also]: Protective vegetation
- Forest trees**
- See [also]: Trees (plants)
- Forest tundra**
- Alpine bryophyte communities. Geissler, P., [1982.eng] 50-5413
- Arcto-alpine and boreal elements in the high altitude flora of north west Himalaya. Gupta, R.K., [1994.eng] 50-5417
- Assessment on the diversity and status of the alpine plants of Indian Himalaya. Samant, S.S., [1994.eng] 50-5424
- Dynamics of montane treelines. Slatyer, R.O., et al. [1992.eng] 50-4072
- Ecological study in an alpine pasture of Bhagirathi Valley, Garhwal Himalaya. Rajwar, G.S., et al. [1994.eng] 50-5429
- Ecology and conservation of alpine meadows in central Himalaya. India. Ram, J., et al. [1994.eng] 50-5418
- Effect of air pollution on flora and fauna in tundra landscapes. Polshvedkin, V.V., [1994.rus] 50-256
- Environmental changes in the North under the influence of technogenic factors. Makarova, O.A., [1994.rus] 50-285
- Estimates of North American tundra ecosystem biomass. Gilmanov, T.G., et al. [1995.eng] 50-4864
- Evaluating the anthropogenic transformation of tundra vegetation in the Nenets Autonomous District. Akul'shina, N.P., et al. [1994.rus] 50-257
- Evolution of soils in the basin of the middle reach of the Ber-elekh River (Upper Kolyma River). Pavlov, B.A., et al. [1995.eng] 50-3877
- High altitude flora of western Himalaya: peculiarities and conservation. Aswal, B.S., [1994.eng] 50-5421
- High altitude forests with special reference to timber line in Kumaun, central Himalaya. Rawal, R.S., et al. [1994.eng] 50-5434
- High altitudes of the Himalaya (biogeography, ecology & conservation). Pangtey, Y.P.S., ed. et al. [1994.eng] 50-5415
- Himalaya, its ecology and biogeography: a review. Mani, M.S., [1994.eng] 50-5416
- Ladakh: an update on natural resources. Dhar, U., et al. [1994.eng] 50-5423
- Lake surface pollen sediments across the Siberian tree line. Clayden, S.L., et al. [1996.eng] 50-6746
- Late Holocene record of aeolian and fire activity in northern Québec, Canada. Filion, L., et al. [1991.eng] 50-3304
- Methane emissions from wetlands at northern treeline. Rouse, W.R., et al. [1995.eng] 50-75
- Permafrost change in a peatland in northern Quebec, 1983-1993. Laberge, M.J., et al. [1995.eng] 50-77
- Plant communities in alpine habitat with special reference to Garhwal Himalaya. Rawat, D.S., et al. [1994.eng] 50-5420
- Plio-Pleistocene stratigraphy and paleobotany of the Kap København Formation. Bennike, O., [1990.eng] 50-5170

Forestry

- Preliminary habitat suitability index model for Himalayan musk deer. Rawat, G.S., [1994,eng] 50-5430
- Protected areas and conservation of rare endemic plants in the Himalaya. Rawat, G.S., [1994,eng] 50-5422
- Recent advance of the arctic treeline along the eastern coast of Hudson Bay. Lesop-Sinclair, K., et al. [1995,eng] 50-3041
- Recent white spruce dynamics at the subarctic alpine treeline of north-western Canada. Szeicz, J.M., et al. [1995,eng] 50-3036
- Sharp and gradual mountain timberlines as a result of species interaction. Armand, A.D., [1992,eng] 50-4073
- Siberian tundra CO₂ flux as a source of seasonal CO₂ variations. Zimov, S.A., et al. [1996,eng] 50-5868
- Snow-vegetation relations in the forest tundra of New Quebec, Hudson Bay. Payette, S., et al. [1973,fr] 50-2852
- Survey of fungal plant diseases in a part of high altitudes of central Himalaya. Bisht, G.S., et al. [1994,eng] 50-5432
- Tree regeneration in Coloradoan forest-tundra ecosystem. Weisberg, P.J., et al. [1995,eng] 50-3295
- Tree seedling and krummholz growth in the forest tundra of Rocky Mountain National Park. Weisberg, P.J., et al. [1995,eng] 50-72
- Vegetation dynamics and animal behaviour in an alpine pasture of the Garhwal Himalaya. Sundriyal, R.C., [1994,eng] 50-5427
- Vegetation patterns in the alpine zone of the Himalaya in eastern Nepal. Kikuchi, T., [1994,eng] 50-5419
- What the biological recultivation of sandy quarries on Yamal has shown. Gromik, V.D., [1994,rus] 50-295
- Forestry**
- Afforestation of larch in autumn. Wang, T.X., et al. [1991,chi] 50-5847
- Assessing and responding to the effects of climate change on forest ecosystems. Spittlehouse, D.L., [1996,eng] 50-4068
- Biodiversity of Canadian forests, with particular reference to the west coast forests. Boyle, T.J.B., [1996,eng] 50-4071
- Chlorophyll fluorescence as measure of Douglas fir cold hardiness. Fisker, S.E., et al. [1995,eng] 50-1287
- Climate change and forest management alternatives. Valsta, L., et al. [1994,eng] 50-3233
- Collected papers on forest management in the cold temperate zone. Lou, Y.H., ed. et al. [1991,chi] 50-5839
- Controlling the density of natural young growth stands of larch. Zhu, L.Y., et al. [1991,chi] 50-5848
- Desiccation of white spruce seedlings planted in the southern boreal forest of British Columbia. Krasowski, M.J., et al. [1995,eng] 50-766
- Ecology and conservation management of cool temperate rain-forest in Tasmania. Brown, M.J., et al. [1996,eng] 50-4069
- Economic and game-theoretical analysis of CO₂ reduction agreements. Tahvonen, O., [1994,eng] 50-3235
- Effects of forest clearcutting on snow hydrology. Meng, F.R., et al. [1995,eng] 50-768
- Experiments on afforestation by aerial seeding in the cold temperate zone. Wang, T.X., et al. [1991,chi] 50-5846
- Forest fire of May 6, 1987, in the Greater Khingan Range. Lou, Y.H., [1991,chi] 50-5853
- Forest recultivation of disturbed lands in the far northern taiga zone of the Komi Republic. Parfeniuk, V.I., [1994,rus] 50-290
- Forest resources in Xinjiang. Xinjiang Resources Development Comprehensive Survey Team of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang ziyuan kaifa zonghe kaoshadu), [1989,chi] 50-5823
- Forest resources of Qinghai. Sun, X.R., ed. et al. [1988,chi] 50-5822
- Frost heaving of forest tree seedlings: a review. Goulet, F., [1995,eng] 50-6520
- Global climate change adaptation: examples from Russian boreal forests. Dixon, R.K., et al. [1996,eng] 50-5056
- High-latitude rainforests and associated ecosystems of the west coast of the Americas. Lawford, R.G., ed. et al. [1996,eng] 50-4060
- Illustrated Hokkaido forestry—towards well-developed forests. [1990,jpn] 50-2170
- Implications of patch dynamics for forested ecosystems in the Pacific Northwest. Bradshaw, G.A., et al. [1996,eng] 50-4067
- Introduction of *Larix olgensis* into the Greater Khingan Range. Liu, X.T., et al. [1991,chi] 50-5850
- Land in Xinjiang conducive to poplar tree farming. Jia, Z.J., et al. [1991,chi] 50-5110
- Logging effects on an aquatic ecosystem on Vancouver Island. Hetherington, E.D., [1996,eng] 50-4070
- Natural regeneration in cut forests of the Greater Khingan Range. Zhou, W.Q., [1991,chi] 50-5843
- Natural resources of Inner Mongolia. Eer, D., ed. [1987,chi] 50-2290
- Nutrient availability in Alaskan upland forest sites. Yanie, J., et al. [1994,eng] 50-4798
- Problems of natural reforestation of Dahurian larch (*Larix gmelini*). Lou, Y.H., [1991,chi] 50-5842
- Proceedings. Management of the Boreal Forest, Anchorage, AK, Dec. 3-4, 1987, [1988,eng] 50-68
- Regeneration in cut natural stands of Dahurian larch. Tu, C.H., et al. [1991,chi] 50-5844
- Satellite imagery for soil conservation in the loess plateau. Wang, C.Y., ed. et al. [1990,chi] 50-4165
- Second-order dynamic model for the frost hardiness of trees. Leinonen, J., et al. [1995,eng] 50-1146

- Snow damage to spruce trees during a fertilization experiment. Valinger, E., et al. [1996,eng] 50-4330
- Spaced cutting in natural larch stands. Liu, X.T., et al. [1991,chi] 50-5849
- Study on artificial acceleration of natural regeneration. Lou, Y.H., [1991,chi] 50-5845
- Study on predicting the fruit bearing patterns of Dahurian larch. Liu, X.T., et al. [1991,chi] 50-5840
- Study on shortening the seedling growing period for Dahurian larch (*Larix gmelini*). Zhang, W.Y., [1991,chi] 50-5841
- Survival and regeneration of dormant silver birch buds stored at super-low temperatures. Rynänen, L., [1996,eng] 50-6745
- Swedish Forest Information Atlas. Rosengren, M., et al. [1992,eng] 50-623
- Swedish forest production losses due to summer frost. Verwijst, T., et al. [1996,eng] 50-6753
- Tracks of forest roads in the privately owned forests of Hokkaido. [1990,jpn] 50-2294
- Fossil Ice**
- Assessment of rock glacier sliding velocity. Whalley, W.B., et al. [1995,eng] 50-2809
- Comments on paper by González Suárez et al. Frochoso, M., et al. [1995,eng] 50-463
- Finite element analysis of the creep of debris containing thin ice bodies. Azizi, F., et al. [1995,eng] 50-183
- Ground penetrating radar investigations of massive ground ice. Dallimore, S.R., et al. [1992,eng] 50-56
- Hillslope ice wedges and landform evolution on coastal arctic Canada. Mackay, J.R., [1995,eng] 50-3298
- Late Quaternary stratigraphy and glaciology in the Thule area, Northwest Greenland. Funder, S., ed. [1990,eng] 50-5169
- Photogrammetry and geomorphology of high arctic push moraines. King, L., et al. [1993,eng] 50-1673
- Problems of dead ice and ground ice in the central part of the north European plain. Böse, M., [1995,eng] 50-508
- Fossils**
- Arcto-Tertiary 93: perspectives and prospects. Collinson, M.E., [1994,eng] 50-917
- Canadian palaeoenvironments derived from pollen macrofossils. Gajewski, K., et al. [1995,eng] 50-2131
- Cenozoic plants and climates of the Arctic. Boulter, M.C., ed. et al. [1994,eng] 50-892
- Changes in the Late Cenozoic environment of the Gonghe Basin in Qinghai. Xu, S.Y., [1986,chi] 50-1983
- Cold water stage in the light of palynological investigations. Jastrzebska-Mameka, M., [1993,pol] 50-3656
- Correlation of Cenozoic dinoflagellate and pollen records. Hubbard, R.N.L.B., et al. [1994,eng] 50-897
- Cretaceous and Tertiary deposits in southern Xizang. Zhou, Z.C., et al. [1992,chi] 50-1502
- Cretaceous/Tertiary marine stratigraphy and petroleum potential, Tarim Basin. Tang, T.F., et al. [1989,chi] 50-1847
- Dinoflagellate cysts and climate change through the Neogene. Harland, R., [1994,eng] 50-899
- Discovery of *Quercus semicarpifolia* fossils at Mount Xixia. Bangma, Xu, R., [1982,chi] 50-6608
- Early Holocene environment on Bjørnøya from lake sediments. Wohlfarth, B., et al. [1995,eng] 50-4721
- Early Holocene land floras and faunas from Edgeøya, eastern Svalbard. Bennike, O., et al. [1995,eng] 50-4717
- Early Pleistocene strata and the Quaternary lower boundary in northern Xinjiang. Lu, S.A., [1985,chi] 50-2006
- Early Tertiary vegetation and paleoclimatology of arctic Canada. Basinger, J.F., et al. [1994,eng] 50-905
- First appearance of Himalayas and its relation to global climatic events. Xu, Q.Q., [1992,chi] 50-1504
- Floristic changes in the areas surrounding the Paratethys during Neogene time. Kovar-Eder, J., et al. [1994,eng] 50-915
- Fluctuations of the Vostokna Ice Margin. Donner, J.J., et al. [1995,eng] 50-4505
- Fossil burrows of mammals in the loess-ice deposits of the Kolyma-Indigirka Lowland. Gubin, S.V., et al. [1996,eng] 50-4146
- Fossil flora of the Paleogene climatic optimum in north eastern Asia. Budantsev, L.I.U., [1994,eng] 50-912
- Fossil plants as palaeoenvironmental indicators. Chaloner, W.G., [1994,eng] 50-894
- Fossilization potential of arctic fjord and continental shelf benthic macrofaunas. Aitken, A.E., [1990,eng] 50-923
- Full-glacial shoreline vegetation during the maximum highstand at Owens Lake, California. Koehler, P.A., et al. [1994,eng] 50-1543
- Gondwana stratigraphy in the Qinghai-Xizang Plateau. Yin, J.X., [1992,chi] 50-1503
- Gulf of Mexico meltwater influx during Laurentide deglaciation. Marchitto, T.M., et al. [1995,eng] 50-340
- Ice-age history of Alaskan national parks. Elias, S.A., [1995,eng] 50-857
- Ice-age tropics revisited. Anderson, D.M., et al. [1994,eng] 50-3771
- Identification of fossil plant fragments in glaciers. Lindkog, A., et al. [1995,swe] 50-1470
- Late Pleistocene sedimentary environment near Urumqi. Han, S.T., et al. [1985,chi] 50-1998
- Late Quaternary glacial and environmental history of Kongsøya, Svalbard. Ingólfsson, Ó., et al. [1995,eng] 50-4713
- Late Quaternary stratigraphy and glaciology in the Thule area, Northwest Greenland. Funder, S., ed. [1990,eng] 50-5169
- Late-glacial palynology of the Myrtaceae of southern Chile. Zhou, M.M., et al. [1996,eng] 50-4744

- Little Ice Age temperature estimated by arctic heather growth variations. Havström, M., et al. [1995,eng] 50-1121
- Marine fossils and glacial history of raised beach deposits around Lützow-Holm Bay. Igarashi, A., et al. [1995,eng] 50-3695
- Meteor impact and the Cretaceous-Tertiary transition in arctic plant fossils. Spicer, R.A., et al. [1994,eng] 50-904
- Migrations and evolution: computerised maps from computerised data. Brown, S.M., [1994,eng] 50-914
- New development in the study on Carboniferous biostratigraphy in northern Xinjiang. Liao, Z.T., et al. [1993,chi] 50-2356
- New paleontological evidence for continental drift in the Qinghai-Xizang Plateau. Wen, S.X., [1992,chi] 50-1506
- Nilssoniocladus* in the Cretaceous Arctic: new species and biological insights. Spicer, R.A., et al. [1996,eng] 50-6541
- North Atlantic fossils and Heinrich events. Rahman, A., [1995,eng] 50-559
- Paleobotany and cladistics and cladistics in paleobotany: enlightenment and uncertainty. Nixon, K.C., [1996,eng] 50-4001
- Paleoclimate from diatom distribution in a marine core. Zhan, Y.F., [1989,chi] 50-6780
- Paleoclimatological import of Himalayan tree palynological samples. Nakagawa, T., et al. [1996,eng] 50-4745
- Paleoclimatology of Kamchatka from Cenozoic plant and foraminifera fossils. Fotianova, L.I., et al. [1994,eng] 50-900
- Paleoecological implications of Patagonian Quaternary pollen diagrams. Heusser, C.J., [1995,eng] 50-2164
- Paleoecology of arctic lake sediment macrofossils. Birks, H.H., [1991,eng] 50-3305
- Plio-Pleistocene foraminiferal stratigraphy in North Greenland. Feyling-Hanssen, R.W., [1990,eng] 50-5171
- Plio-Pleistocene stratigraphy and paleobotany of the Kap København Formation. Bennike, O., [1990,eng] 50-5170
- Present and early Holocene foraminiferal distribution in eastern Svalbard. Hansen, A., et al. [1995,eng] 50-4718
- Quaternary bryophyte palaeo-ecology. Birks, H.J.B., [1982,eng] 50-5414
- Quaternary insects and their environments. Elias, S.A., [1994,eng] 50-2009
- Quaternary loess and stratigraphy in Inner Mongolia. Dong, G.R., et al. [1986,chi] 50-1991
- Radiocarbon dated common mussels *Mytilus edulis* from eastern Svalbard. Hjort, C., et al. [1995,eng] 50-4719
- Radiolaria biostratigraphy of core S₁₁ in the area northwest of Antarctic Peninsula. Chen, W.B., [1989,chi] 50-6779
- Review of Late Cretaceous floras and climates of arctic Russia. Herman, A.B., [1994,eng] 50-902
- Review of working groups on paleoclimate reconstruction from extinct plant data. Hubbard, R.N.L.B., ed. [1994,eng] 50-918
- Science news from The Ice: highlights from the 1994-1995 austral summer. Simarski, L., [1995,eng] 50-6500
- Some early Paleogene species from western Kamchatka. Lavrenko, O.D., et al. [1994,eng] 50-913
- Some late Pliocene and early Pleistocene pollen profiles from Poland. Snuchlik, L., [1994,eng] 50-916
- Tertiary climate changes in the Russian Far East. Krassilov, V.A., [1994,eng] 50-901
- Towards a review of Tertiary palaeobotany in the boreal realm. Boulter, M.C., [1994,eng] 50-893
- Water fern residue as Chilean paleoclimatic indicator. Heusser, C.J., et al. [1996,eng] 50-5488
- Foundations**
- Artificial freezing suspended while Tower of Pisa foundation is anchored. Wheeler, P., [1995,eng] 50-885
- Axial loading of foundations embedded in frozen soils. Selvadurai, A.P.S., et al. [1995,eng] 50-173
- Buildings with short piles and ventilated foundations in permafrost. Zhu, L.N., et al. [1995,chi] 50-5625
- Church building foundation retrofit on Saint Lawrence I. Crowther, G.S., [1996,eng] 50-6130
- Cyclic direct simple shear testing of a Beaufort Sea clay. McCarron, W.O., et al. [1995,eng] 50-579
- Design guide for frost-protected shallow foundations. NAHB Research Center, [1994,eng] 50-3579
- Determining the bearing strength of frozen foundations with variable temperature. Kononov, A.A., [1989,rus] 50-2253
- Developing methods for forecasting seismic effects under cryolithozone conditions. Dzhuurik, V.I., et al. [1996,rus] 50-6834
- Driven pile capacities in warm permafrost in Komi Republic, Russia. Thompson, S.R., et al. [1996,eng] 50-6128
- Dynamic deformation characteristics of rock foundations in the cryolithozone. Voronkov, O.K., et al. [1995,rus] 50-2505
- Effects of global warming on building construction on permafrost. Khurstaev, L.N., [1996,eng] 50-5861
- Engineering-geocryological problems in Transbaikalia: collected scientific papers. Shesternev, D.M., ed. [1993,rus] 50-107
- Experimental studies on the interaction of surface foundations on fills with heaving soils. Elgin, B.B., et al. [1993,rus] 50-130
- Floating slabs for unheated buildings. Crory, F.E., [1987,eng] 50-3757
- Foundation heave induced by a subgrade cooling system over permafrost. Scher, R.L., [1991,eng] 50-1737
- Foundation rehabilitation at ADOT/PP Jim River Maintenance Camp. Rooney, J.W., et al. [1991,eng] 50-1768
- Foundations for permafrost and other problem soils. Vangool, W.J., [1996,eng] 50-6132

Fractals

Freeze thaw cycles

- Frost heaving force on foundations in seasonal frozen ground region. Xu, S.X., [1989,chi] 50-1367
- Geocryological conditions for power plant foundations in Russia. Krivonogova, N.F., et al. [1991,eng] 50-1736
- Geocryological conditions of Transbaikalia and engineering-geocryological problems. Shesternev, D.M., et al. [1993,rus] 50-108
- Heat interactions between block-unit structures in permafrost soils. Gorbacheva, V.M., et al. [1990,rus] 50-1615
- Improved structure and construction engineering of bases and foundations on permafrost. Leikam, A.B., et al. [1989,rus] 50-2255
- Improving foundations in permafrost (in the example of the Noril'sk industrial region). Rastegaev, I.K., et al. [1989,rus] 50-2302
- Influence of heating on the frozen depth of building foundation. Hong, Y.P., et al. [1989,chi] 50-1383
- Insulating structure. Ericsson, B., [1989,eng] 50-2340
- Method for determining the thickness of insulation layer of foundation. Ding, D.W., et al. Lanzhou Institute of Glaciology and Geocryology, Ministry of Railways, Northwest Institute, Heilongjiang Provincial Institute of Water Conservancy, Working Group for Thermal Insulation of Foundations, [1989,chi] 50-1374
- Method for making short piles with an expanded pivot under winter conditions. Shishkov, I.U.A., [1995,rus] 50-725
- Minimum depth for building foundations subject to frost heave. Jiang, H.J., et al. [1989,chi] 50-1381
- OTH-backscatter power plant foundation design for warm, ice-rich permafrost soils. Foster, M.L., et al. [1991,eng] 50-1735
- Performance of a passively refrigerated gravel pad foundation in Fairbanks. Adameczak, S. Jr., [1996,eng] 50-6108
- Performance of a Triodetic foundation near Fairbanks, Alaska. Kinney, T.C., [1996,eng] 50-6131
- Permafrost foundation creep prediction from cone penetration tests. Ladanyi, B., et al. [1995,eng] 50-1825
- Piles and pile foundations under conditions of Siberia. Solov'ev, I.U.I., ed. [1994,rus] 50-5141
- Probability distributions used in 100-year return period of air-freezing index. Steurer, P.M., [1996,eng] 50-4753
- Protection of arctic bridge crossing by refrigerated foundation. Christopherson, A.B., et al. [1991,eng] 50-1734
- Reinforcing the permafrost foundation of the Gornegrat Observatory. Vonder Mühll, D., et al. [1995,ger] 50-4174
- Significance of factors in a foundation-fill-heaving base. Babello, V.A., et al. [1993,rus] 50-131
- Steel pipe pile foundations for school building in saline permafrost. Merrill, K.S., et al. [1996,eng] 50-6127
- Study of deformation properties of freezing and thawing soils for cold weather construction. Ganeles, L.B., et al. [1989,rus] 50-2252
- Tangential frost heave forces on reinforced concrete piles. Sun, Y.L., et al. [1989,chi] 50-1363
- Tensile adfreezing strength between frozen soil and foundation. Ding, J.K., et al. [1989,chi] 50-1370
- Test standard and design value of normal frost heaving force. Tong, C.J., et al. [1989,chi] 50-1364
- Thermopiles. Garani, L.L., [1992,rus] 50-1905
- Thermosiphon-based designs and applications for foundations built on permafrost. Zarling, J.P., et al. [1991,eng] 50-1733
- See [also]: Pavement bases; Permafrost bases; Road-beds
- Fractals**
- Laboratory study of sediment deformation: stress heterogeneity and grain-size evolution. Iverson, N.R., et al. [1996,eng] 50-6256
- On the sedimentological character of alpine basal ice facies. Hubbard, B., et al. [1996,eng] 50-6259
- Response of alpine vegetation canopy to experimental wind barrier. Smith, B., et al. [1996,eng] 50-3786
- Study of the morphology of a discontinuous section of a first year arctic pressure ridge. Bowen, R.G., et al. [1996,eng] 50-3829
- Universal multifractal scaling of synthetic aperture radar images of sea-ice. Falco, T., et al. [1996,eng] 50-5685
- Use of fractal parameters to detect active layer heat transfer. Hinkel, K.M., et al. [1995,eng] 50-1138
- Fracture zones**
- Distribution, origin, and hydraulic influence of fractures in a clay-rich glacial deposit. McKay, L.D., et al. [1995,eng] 50-3254
- Evidence for Cenozoic crustal extension in the Bering Sea region. Cooper, A.K., et al. [1992,eng] 50-2565
- Flow properties of crushed ice. Singh, S.K., et al. [1995,eng] 50-2999
- Fracture toughness of freshwater ice—part II: analysis and micrography. Weber, L.J., et al. [1996,eng] 50-5159
- Gulf Canada probabilistic ice load model: operation and parametric sensitivity study. Watson, D.A., et al. [1995,eng] 50-1413
- Ice fracture and spalling in ice-structure interaction. Zou, B., et al. [1996,eng] 50-5473
- Ice/metal interfaces: fracture energy and fractography. Wei, Y., et al. [1996,eng] 50-5243
- Iceberg-structure interaction probabilities for design. Fuglem, M., et al. [1996,eng] 50-5052
- Indentation pressure in ice/vertical structure interaction. Takeuchi, T., et al. [1995,eng] 50-2738
- Modelling of continuous crushing of ice in front of offshore structures. Brown, T.G., et al. [1995,eng] 50-575
- Particle model for quasibrittle fracture and application to sea ice. Jirásek, M., et al. [1995,eng] 50-495
- Singularities in simulation of ice sheet-solid impact regime. Darr, D.G., et al. [1995,eng] 50-2163
- Fracturing**
- On the modelling of ice cover fracture. Slepian, L.I., [1990,eng] 50-94
- Two-dimensional dynamic simulation of solid fracture. Part I: description of the model. Potapov, A.V., et al. [1995,eng] 50-947
- Two-dimensional dynamic simulation of solid fracture. Part II: examples. Potapov, A.V., et al. [1995,eng] 50-1097
- Variation in ice strength at its interaction with ice structures. Krasnov, I.U.N., [1990,eng] 50-97
- Fram Strait**
- New insights on large-scale oceanography in Fram Strait: the West Spitsbergen Current. Gascard, J.C., et al. [1995,eng] 50-1163
- Ocean Drilling Program in Fram Strait and prediction of ice-free conditions. Wadhams, P., et al. [1995,eng] 50-215
- Seismic reflection data from the Fram Strait. Jokat, W., et al. [1995,eng] 50-2541
- France**
- ASTRAL: the French program for research on avalanche forecasting by analogous days. Guyomarch, G., et al. [1995,ita] 50-2598
- Avalanche accidents in France from 1971 to 1974. Sivardière, F., et al. [1995,fre] 50-4641
- Avalanche casualties in France, Oct. 1994-Sep. 1995. Sivardière, F., [1995,fre] 50-2587
- Avalanche dynamics: introduction to the Lautaret Pass alpine experimental site. Ousset, F., et al. [1995,fre] 50-4678
- Avalanche hazard forecasting at the department level: the example of Isère. Villecroze, J., [1995,fre] 50-4664
- Forecasting avalanche risks in France—assessment and perspective. Pahaut, E., et al. [1995,fre] 50-4873
- Hail in southwestern France. I. Hailfall characteristics and hail-storm environment. Dessens, J., [1986,eng] 50-4911
- Hail prevention in southwestern France. Dessens, J., [1986,eng] 50-4912
- Impact of climate change on snow conditions in the French Alps. Martin, E., et al. [1995,fre] 50-4693
- Local forecasting of avalanche hazard in La Plagne. Schneider, C., [1995,fre] 50-4657
- Local forecasting of avalanche hazards at Alpe d'Huez in the Grandes Rousses. Daultier, J.M., [1995,fre] 50-4661
- Meteorological and snow cover information disseminated by Météo-France. Pahaut, E., [1995,fre] 50-2589
- Modelling of permafrost depth in France during the last 120,000 years. Lebre, P., et al. [1996,fre] 50-4570
- National climatic reference base for exceptional wet snow and rime ice episodes. Raison, T., et al. [1996,eng] 50-5331
- OASIS avalanche database. Gillet, M., [1995,fre] 50-2590
- Summer and autumn avalanches: a neglected hazard. Zuanon, J.P., [1995,fre] 50-4669
- Use of snowmobiles. Sarraz-Bournet, P., [1996,fre] 50-4868
- Winter of 1994-95 in France. Météo-France, [1995,fre] 50-2588
- France—Alps**
- Determination of alpine treeline variations from soil charcoal sediments. Carcaillet, C., et al. [1996,eng] 50-4746
- Preliminary hydrological results from Sannens glacier basin. French Alps. Barbet, D., et al. [1993,eng] 50-5690
- Radar survey of French Alps snow cover. Bernier, M., et al. [1996,fre] 50-5542
- Solifluction controls in the French Alps. Pissart, A., [1993,eng] 50-839
- Weathering of aeolian dusts in alpine snows. Delmas, V., et al. [1996,eng] 50-4588
- France—Brittany**
- Land form development and pedogenesis: the effects of the last glacial cycle in the forest of Fougères (Ille et Vilaine, Brittany, France). Van Vliet-Lanoë, B., et al. [1995,fre] 50-2996
- France—Central Massif**
- Stratigraphy and palynology of boreal peat in French bogs. Juviné, E., et al. [1995,fre] 50-4879
- France—Jura Mountains**
- Paleohydrological changes in French mountains due to paleoclimatic changes. Magny, M., [1995,eng] 50-5038
- Use of karst deposits in the French Jura for paleoclimatological analysis. Chaline, J., et al. [1995,eng] 50-1122
- France—Pyrenees**
- Characteristics of the snow cover of the eastern Pyrenees. Péjouan, H., [1995,fre] 50-2592
- France—Vosges**
- Runoff modeling of a small river basin. Ambrose, B., et al. [1996,eng] 50-6586
- Frazil ice**
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1995,eng] 50-4247
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1996,eng] 50-5810
- Frazil evolution in channels. Hammar, L., et al. [1995,eng] 50-647
- Ice hydraulic investigation for the snow disposal structure, Ottawa River. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1982,eng] 50-1199
- Ice hydraulics of snow disposal in the Ottawa River: frazil ice. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1982,eng] 50-1198
- Ice problems in planning and operation of hydro power plants. Sharma, H.R., [1993,eng] 50-235
- Ice protection for water intakes of the Perry Nuclear Power Plant. Wahanik, R.J., et al. [1976,eng] 50-884
- Research on cold region river. Yamashita, S., [1994,jpn] 50-2832
- River ice processes. Prowse, T.D., [1995,eng] 50-785
- Under cover transport and accumulation of frazil granules—discussion. Quo, Q.Z., et al. [1996,eng] 50-6337
- Upward flushing of sea water through first year sea ice. Hudier, E.J.J., et al. [1995,eng] 50-4210
- Freeze drying**
- Applications of bacterial ice nucleation activity in food processing. Watanabe, M., et al. [1995,eng] 50-3287
- Bacterial ice nucleation and its potential applications in the food industry. Li, J.K., et al. [1995,eng] 50-1956
- Changes of model mixtures during freezing and drying. Shalae, E.I.U., et al. [1996,eng] 50-4531
- Estimation of freeze drying transport coefficients. Lombardi, J.I., et al. [1996,eng] 50-5692
- Freeze concentration by layer crystallization. Flesland, O., [1995,eng] 50-5943
- Initial snow chemistry survey of the Mogollon Rim in Arizona. Barbaris, B., et al. [1996,eng] 50-6711
- Mechanism of formation of nanocrystalline hematite prepared by freeze-drying. Bermejo, E., et al. [1995,eng] 50-4289
- Relation between permeability and pore size distribution of compacted clayey silts. Garcia-Bengochea, I., [1978,eng] 50-2802
- Role of nucleation in cryopreservation. Fahy, G.M., [1995,eng] 50-3288
- Freeze thaw cycles**
- Active layer moisture migration in Alaskan soils. Outcalt, S.I., et al. [1996,eng] 50-4631
- Air temperature effects on cold weather drilling mud dewatering. Wojtanowicz, A.K., et al. [1991,eng] 50-1708
- Alpine tree line soil erosion derived from bedrock geomorphological map analysis. Stocker, E., [1996,ger] 50-6678
- Assessing frost damage in compacted clay liners. Benson, C.H., et al. [1995,eng] 50-1133
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Calculated and measured air and soil freeze-thaw frequencies. Baker, D.G., et al. [1995,eng] 50-1217
- Computer simulation of arctic soil freezing during the Pleistocene. Sigunov, I.U.A., et al. [1995,eng] 50-6582
- Corn snow—today's skiing, tomorrow's meltwater. Colbeck, S.C., [1996,eng] 50-4758
- Diffusive properties of polymer membranes prepared by freeze/thaw techniques. Hickey, A.S., et al. [1995,eng] 50-2698
- Discussion of paper by Aavik and Chandra. Mather, B., et al. [1995,eng] 50-4501
- Dispersion-by-chemical-reaction technology to stabilize asphalt. Brar, G.S., et al. [1995,eng] 50-727
- Durability cracking from freeze-thaw in concrete. Janssen, D.J., et al. [1986,eng] 50-2801
- Effect of freezing of water samples on viable counts of environmental mycobacteria. Iivanainen, E., et al. [1995,eng] 50-1953
- Effects of freeze-thaw cycles on the properties of a sensitive clay. Roy, M., et al. [1995,fre] 50-581
- Effects of freeze-thaw cycling on geomembrane sheets and their seams. Comer, A.I., et al. [1995,eng] 50-2864
- Effects of tree litter decomposition on forest soil composition. Harris, M.M., et al. [1996,eng] 50-3309
- Experimental design for laboratory simulation of periglacial solifluction processes. Harris, C., et al. [1996,eng] 50-5778
- Field observations of frost action in intact and weathered Champlain Sea clay. Konrad, J.M., et al. [1995,eng] 50-580
- Formation of poly(vinyl alcohol) cryogels through polymer solution freezing-thawing. Lozinski, V.I., et al. [1995,eng] 50-1177
- Freeze-thaw dewatering and structural enhancement of fine coal tails. Stahl, R.P., et al. [1995,eng] 50-357
- Freeze-thaw effects of fine-grained soil permeability. Eigenbrod, K.D., [1996,eng] 50-6749
- Freeze-thaw effects on photoproduction of hydrogen peroxide in cloud waters. Arakaki, T., et al. [1995,eng] 50-1969
- Freeze-thaw weathering: the cold region "panacea". Hall, K., [1995,eng] 50-4697
- Freeze/thaw treatment on waste activated sludge: a FTIR spectroscopic study. Hong, S.G., et al. [1995,eng] 50-1568
- Freeze/thaw treatment on zone settling of waste activated sludges. Chen, G.W., et al. [1996,eng] 50-5043
- Hydraulic fill ash storage design for the permafrost zone. Koritova, I.V., et al. [1995,eng] 50-1838
- Improved freeze-thaw stability in paints. Farwaha, R., et al. [1995,eng] 50-2055
- Ion flux through a shallow snowpack: effects of initial conditions and melt sequences. Davis, R.E., et al. [1995,eng] 50-2405
- Liquefaction resistance of silty sand based on in situ frozen samples. Yoshimi, Y., et al. [1996,eng] 50-5080
- Low temperature effects on saturated fibrous polymer composites. Starzhetskaia, T.A., et al. [1996,eng] 50-4005
- Magnetic resonance imaging of frozen plant tissues. Gamble, G.R., [1994,eng] 50-3360
- Mathematical model of the freezing-thawing of saline frozen soil. Vasil'ev, V.I., et al. [1996,eng] 50-5268
- Means of determining the anti-erosion stability of soil. Vladimirov, V.Kh., [1992,rus] 50-1922

Freeze thaw tests

- Means of testing porous materials for frost resistance. Shapranov, V.M., [1992.rus] 50-1918
- Monitoring soil condition in the northern Tibetan Plateau using SSM/I data. Chang, A.T.C., et al. [1996.eng] 50-6692
- Natural freeze-thaw dewatering of aerated lagoon sludges. Desjardins, M.A., et al. [1996.fre] 50-5808
- Nitrous oxide emission from an agricultural soil subjected to different freeze-thaw cycles. Chen, Y., et al. [1995.eng] 50-5687
- Observations of 'freezing-induced redistribution' in soil lysimeters. Butler, A.P., et al. [1996.eng] 50-6082
- Rates of heave and surface rotation of periglacial frost boils in the White Mountains, California. Wilkerson, F.D., [1995.eng] 50-3785
- Review of solution methods to the problem of heat-mass transfer during freezing and thawing. Komarov, I.A., [1996.rus] 50-6816
- Scanning microscopy of an autofluorescent biological substance. Evans, J., et al. [1996.eng] 50-4532
- Sedimentary petrogenesis and its characteristics in the cryolithozone. Danilov, I.D., [1995.eng] 50-6074
- Shelf freezing and cryolithozone evolution of the Laptev Sea. Fartyushev, A.I., [1990.rus] 50-1631
- Soil freeze-thaw effects on bank erodibility and stability. Gatto, L.W., [1995.eng] 50-2706
- Spectroscopic analysis of frozen cement paste microstructure. Olson, R.A., et al. [1995.eng] 50-1406
- Stationary study of the dynamics of shoreline slopes in the Bol'shezemel'skaya tundra. Glavatskiy, V.V., et al. [1996.rus] 50-6410
- Study of deformation properties of freezing and thawing soils for cold weather construction. Ganeles, L.B., et al. [1989.rus] 50-2252
- Thermal protection of concrete dams subject to freeze-thaw cycles. Léger, P., et al. [1995.eng] 50-576
- Two methods for the determination of lateral stress in sand. Hatanaka, M., et al. [1995.eng] 50-1180
- Using electrometry, to study the dynamics of seasonal freezing and thawing. Boikov, S.A., et al. [1995.rus] 50-2514
- Vertical migration of diesel into silty sand subject to cyclic freeze-thaw. Biggar, K.W., et al. [1996.eng] 50-6117
- Water in lichens at subzero temperatures. Schroeter, B., et al. [1995.eng] 50-2842
- Weathering processes in marbles from Independence and Patriot Hills. Yoshikawa, K., et al. [1995.eng] 50-4383
- Winter effects on hydraulic conductivity of compacted clay—discussion. Day, R.W., et al. [1996.eng] 50-5207
- World Oil's handbook of arctic well completions. Goodman, M.A., [1978.eng] 50-2057
- See [also]: Seasonal freeze thaw
- Freeze thaw tests**
- Assessing freezing and thawing resistance of concrete. El-Korchi, T., et al. [1995.eng] 50-2619
- Assessment of frost damage of concrete and its repair technique. Tsukinaga, Y., et al. [1995.eng] 50-2673
- Carbon fiber-reinforced concrete. Chen, P.W., [1994.eng] 50-685
- Cement type and freeze-thaw resistance of concrete. Stark, J., et al. [1995.eng] 50-2637
- Characterization of mortars as surface repair materials. Mirza, J., [1992.eng] 50-2759
- Cold acclimation of rye leaves during freeze/thaw cycles. Uemura, M., et al. [1995.eng] 50-3343
- Cold recycling of reclaimed asphalt concrete. Test road in Värmland—three years experience. Jacobson, T., [1995.swe] 50-950
- Concrete surface scaling during freeze thaw tests. Kaufmann, J., et al. [1995.eng] 50-2621
- Concrete under severe conditions: environment and loading. Sakai, K., ed. et al. [1995.eng] 50-2618
- Corrosion control paints for steel pipeline supports in cold regions. Nakamura, Y., et al. [1996.eng] 50-6121
- Cracking in mortar due to freezing and thawing. Naria, T., et al. [1995.eng] 50-2674
- Creep, shrinkage, frost, and sulphate resistance of high strength concrete. Ghosh, S., et al. [1995.eng] 50-577
- Development of methods for assessing the frost resistance of clay bricks. Siivonenkoinen, K., et al. [1995.eng] 50-951
- Discussion of paper by Aavik and Chandra. Mather, B., et al. [1995.eng] 50-4501
- Durability issues of FRP composites in offshore structures. Dutta, P.K., [1995.eng] 50-217
- Durability of cement-bonded particleboard. De Souza, M.R., [1994.eng] 50-687
- Durability of cementitious mortars containing silica fume. Quaresima, R., et al. [1995.eng] 50-2630
- Durability of microfiber-reinforced mortars. Pigeon, M., et al. [1996.eng] 50-4736
- Dynamic modulus of elasticity and durability of no-fines concrete. Tamai, M., et al. [1995.eng] 50-2683
- Earth dams under confining pressure subject to freeze thaw. Ota, H., et al. [1995.jp] 50-6735
- Earthquake shock absorbers for bridges in cold regions. Sato, M., et al. [1993.jp] 50-2839
- Effect of aging on the penetration resistance of sands. Joshi, R.C., et al. [1995.eng] 50-1823
- Effect of de-icing salts on frost damage of high-strength concrete. Miura, T., et al. [1995.eng] 50-2639
- Effect of fines content on frost heave. Tester, R.E., et al. [1996.eng] 50-6752

- Effectiveness of coatings on concrete under freezing and thawing conditions. Sato, T., et al. [1995.eng] 50-2669
- Effects of freeze-thaw cycles on the properties of a sensitive clay. Roy, M., et al. [1995.fre] 50-581
- Effects of freeze-thaw cycling on geomembrane sheets and their seams. Comer, A.I., et al. [1995.eng] 50-2864
- Effects of smelter emissions on pine tree frost hardness. Suutinen, M.L., et al. [1996.eng] 50-4309
- Effects of tree litter decomposition on forest soil composition. Harris, M.M., et al. [1996.eng] 50-3309
- Evaluation of frost action on concrete. Kleiner, V.D., [1996.eng] 50-4367
- Evaluation of the precision of freeze thaw and deicing salt testing by the CDF procedure. Setzer, M.J., et al. [1995.eng] 50-2622
- Experimental system for one-dimensional freezing of undisturbed soil profiles. Johnson, H., et al. [1993.eng] 50-3758
- Fine-grained slag sand and fly ash concrete with higher frost resistance and waterproofness. Pavlenko, S.I., et al. [1992.eng] 50-2758
- Fluorimetric assessment of bacteria after freeze-thawing. Puchkov, E.O., et al. [1995.eng] 50-5865
- Freeze-thaw and deicing salt resistance of concrete—basic research and testing. Setzer, M.J., [1995.eng] 50-2620
- Freeze-thaw durability of concrete cured below 0°C using anti-freeze admixtures. Mason, M.R., et al. [1996.eng] 50-6122
- Freeze-thaw durability of lightweight aggregate concretes. Roberts, J.M., [1995.eng] 50-2626
- Freeze-thaw durability testing of oversanded bridge floor concrete. Ouyang, C.S., [1995.eng] 50-4949
- Freeze-thaw effects of fine-grained soil permeability. Eigenbrod, K.D., [1996.eng] 50-6749
- Freeze-thaw effects on photoproduction of hydrogen peroxide in cloud waters. Arakaki, T., et al. [1995.eng] 50-1969
- Freeze-thaw studies on concrete structural elements. Ganga Rao, H.V.S., et al. [1993.eng] 50-5063
- Freeze/thaw treatment on zone settling of waste activated sludges. Chen, G.W., et al. [1996.eng] 50-5043
- Freezing and thawing of lightweight concrete. Hoff, G.C., [1995.eng] 50-2625
- Freezing and thawing of non-air-entrained and air-entrained concrete. Li, Y., et al. [1994.eng] 50-2768
- Freezing and thawing resistance of concrete pavers saturated in de-icing chemicals. Ghafoori, N., et al. [1995.eng] 50-2638
- Frost and deicing salt resistance of concrete pavements. Setzer, M.J., et al. [1994.ger] 50-2797
- Frost durability of concrete containing viscosity-modifying admixtures. Khayat, K.H., [1995.eng] 50-4500
- Frost durability of high flowing concrete using fine mineral powders. Khandzadi, M., et al. [1995.eng] 50-2629
- Frost durability of high strength concrete: effect of internal cracking on ice formation. Jacobsen, S., et al. [1996.eng] 50-6097
- Frost durability of high strength concretes. Kukko, H., et al. [1995.fin] 50-1158
- Frost durability of high-performance concrete. Marchand, J., et al. [1995.eng] 50-2640
- Frost effects on high strength concrete without air entrainment. Kukko, H., [1995.eng] 50-2627
- Frost resistance of concrete canals in Turkey. Tosun, H., [1995.eng] 50-2665
- Frost resistance of concrete with and without silica fume. Zhou, Y.X., [1994.eng] 50-374
- Frost resistance of high-performance concrete. Folliard, K.J., [1995.eng] 50-4172
- Frost resistance of marine concrete in a cold environment. Ayuda, K., et al. [1995.eng] 50-2663
- Frost resistance of roller-compacted high-volume fly ash concrete. Pigeon, M., et al. [1995.eng] 50-1466
- Frost resistance of surface layer of concrete with permeable sheet. Sugawara, T., et al. [1995.eng] 50-2656
- Frost resistance of surface-coated concrete. Takahashi, J., et al. [1994.jp] 50-2834
- High performance slag ash concrete. Pavlenko, S.I., [1995.eng] 50-2680
- High strength concrete—freeze/thaw testing and cracking. Jacobsen, S., et al. [1995.eng] 50-3700
- High-performance concrete incorporating large volumes of ASTM Class F fly ash. Bilodeau, A., et al. [1994.eng] 50-2765
- High-strength concrete containing silica fume. Torii, K., et al. [1994.eng] 50-2767
- Highly elastic surface coating to protect structures exposed to coastal/marine environments. Swamy, R.N., et al. [1992.eng] 50-2753
- Improvement of surface layer strength of concrete by using a special curing sheet. Sugawara, T., et al. [1992.eng] 50-2760
- Low-temperature and freeze-thaw durability of thick composites. Dutta, P.K., et al. [1996.eng] 50-5659
- Material properties, specifications and testing for pavements in cold regions. Chamberlain, E.J., et al. [1996.eng] 50-6195
- Microstructural features of freeze-thaw deterioration of concrete. Bakharev, T., et al. [1995.eng] 50-367
- Migrating corrosion inhibitors for reinforced concrete. Miksic, B., et al. [1996.eng] 50-5947
- Minimum thermal protection for cold weather masonry. Korhonen, C.J., et al. [1996.eng] 50-6118
- Mix design of air-entrained, high-performance concrete. Lessard, M., et al. [1995.eng] 50-2670

- Mutual influence of ice heave and interlayer swelling in clay rocks. Final report (draft). Czurda, K.A., et al. [1986.eng] 50-1690
- Natural freeze-thaw dewatering of aerated lagoon sludges. Desjardins, M.A., et al. [1996.fre] 50-5808
- Nitrous oxide emission from an agricultural soil subjected to different freeze-thaw cycles. Chen, Y., et al. [1995.eng] 50-5687
- Nondestructive evaluation of deteriorated concrete structures. Ohtsu, M., et al. [1995.eng] 50-2672
- Northern climate weathering tests on sealed concrete. Chang, L.M., [1996.eng] 50-6119
- Performance of high-early strength concrete under freeze-thaw conditions. Hossain, M., et al. [1995.eng] 50-2628
- Performance of landfill cover systems in cold climates. Lee, J.Y., [1994.eng] 50-371
- Pore-water pressures in freezing and thawing fine-grained soils. Eigenbrod, K.D., et al. [1996.eng] 50-4756
- Predicting brick frost-resistance. I. Robinson, G.C., et al. [1995.eng] 50-1109
- Proceedings. ACI International Conference on Evaluation and Rehabilitation of Concrete Structures and Innovations in Design, Hong Kong, Dec. 2-6, 1991. [1992.eng] 50-2752
- Rapid freeze/thaw testing of concrete—pore structure changes by cracking and healing. Jacobsen, S., et al. [1995.eng] 50-2624
- Recommendations for concrete slab freeze-thaw testing. Réunion Internationale des Laboratoires d'Essais et de Recherches sur les Matériaux et les Constructions. [1995.eng] 50-1085
- Resilient modulus of cohesive soils and the effect of freeze-thaw. Lee, W.J., et al. [1995.eng] 50-578
- Restoration of Kakabeka Falls, Ontario, Canada. Grieve, R.G., et al. [1992.eng] 50-2763
- Reversible photoinhibition in antarctic moss during freezing and thawing. Lovelock, C.E., et al. [1995.eng] 50-2854
- Seasonal variations in frost tolerance and sugar content of two *Plagiurnum* species. Rütten, D., et al. [1993.eng] 50-6524
- Self healing of high strength concrete after deterioration by freeze/thaw. Jacobsen, S., et al. [1996.eng] 50-3725
- SEM observations of the microstructure of frost deteriorated and self-healed concretes. Jacobsen, S., et al. [1995.eng] 50-3701
- Soil frost heave and bearing tests. Lausanne, Switzerland. Federal Institute of Technology. Laboratory of Soil Mechanics. (École Polytechnique Fédérale de Lausanne. Laboratoire de mécanique des sols) (Eidgenössische Technische Hochschule). [1988.fre] 50-1669
- Some behaviour of frost resistance of water permeable concrete. Tokushige, H., et al. [1995.eng] 50-2681
- Special light weight concrete—resistance to rebar corrosion and salt/frost scaling. Havdahl, J., et al. [1995.eng] 50-2658
- Studies of shotcrete using ultra rapid hardening cement, steel fiber, and silica fume. Masuda, Y., et al. [1992.eng] 50-2756
- Superplasticizer dosage effects on concrete frost resistance. Gagné, R., et al. [1996.eng] 50-5922
- Survival and regeneration of dormant silver birch buds stored at super-low temperatures. Ryyänen, L., [1996.eng] 50-6745
- Testing methods and frost resistance standardization of concrete. Ivanov, F.M., [1995.eng] 50-2623
- Universal frost susceptibility test apparatus. Chamberlain, E.J., [1986.eng] 50-1974
- Use of a new glass-fiber rod as reinforcement for concrete structures. Chaalal, O., et al. [1992.eng] 50-2757
- Winter effects on hydraulic conductivity of compacted clay—discussion. Day, R.W., et al. [1996.eng] 50-5207
- Freezeup**
- Case study: freeze-up and jamming on the Peace River at Peace River. Andres, D.D., [1995.eng] 50-792
- Characteristics of freezing in five lakes within the jurisdiction of Kushiro. Toukairin, A., [1996.eng] 50-5908
- Comparisons between the Okhotsk Sea and the Baltic Sea ice. Shirasawa, K., et al. [1996.eng] 50-5904
- Effect of sea ice surface features on radar backscatter. Ulander, L.M.H., et al. [1995.eng] 50-1813
- Ice jam flooding and mitigation: Lower Platte River basin. Nebraska. White, K.D., et al. [1996.eng] 50-4251
- Ice thickness data, winter 1992-1993. [1995.eng] 50-985
- Ice thickness data, winter 1993-1994. Final issue. [1996.eng] 50-3711
- Remote sensing of arctic sea ice using the ERS-1 SAR. Askne, J., et al. [1992.eng] 50-223
- SAR observations of arctic freeze-up compared to SSM/I during ARCTIC91. Petersson, M.I., et al. [1996.eng] 50-6694
- Satellite radar observations of Beaufort Sea autumn freeze-up. Winebrenner, D.P., et al. [1996.eng] 50-6218
- Sea ice radar backscatter and the fusion of active and passive microwave data. Beaven, S.G., [1995.eng] 50-4171
- Seasonal development of Beaufort Sea pack ice. Melling, H., et al. [1996.eng] 50-5857
- Seasonal frost mounds of arctic beaches, Tuktoyaktuk Peninsula, Northwest Territories. Campeau, S., et al. [1995.fre] 50-4882
- Simulation and observation of ice formation (freeze-over) in a lake. Fang, X., et al. [1996.eng] 50-5466
- Thermal ice ridges or ramparts in Lake Kussharo. Toukairin, A., [1996.eng] 50-5909
- Freezing**
- Analytical modelling of heat transfer from a single slab in freezing. Dincer, I., [1995.eng] 50-3818

Freezing depth

Fresh water

- Chlorophyll fluorescence as spruce frost hardness indicator. Binder, W.D., et al. [1996.eng] 50-6519
- Cold acclimation of *Arabidopsis thaliana*. Uemura, M., et al. [1995.eng] 50-1462
- Cold acclimatization biochemistry of rapeseed tissues. Smolefska-Sym, G., et al. [1996.eng] 50-5463
- Effects of dehydration and freezing stress on brown algae. Pearson, G.A., et al. [1995.eng] 50-1523
- Electron microscopy of frozen pea leaf cellular microstructure. Kaneko, Y., et al. [1996.eng] 50-5252
- Experimental study of freezing of binary solutions. Zampino, M.A., et al. [1991.eng] 50-1243
- Freeze preparation of plant tissue for electron microscopy. Adler, K., et al. [1996.eng] 50-5485
- Freezing of an aqueous sodium chloride saturated packed bed. Choi, J., et al. [1993.eng] 50-5781
- Freezing purification system and method for decontamination and desalination of water. Hussein, A.A., et al. [1995.eng] 50-3456
- Frost hardness of 16 European provenances of sessile oak growing in Scotland. Deans, J.D., et al. [1996.eng] 50-4329
- Kinetics of freezing of dimethylacetylene. An electron diffraction study. Huang, J.F., et al. [1995.eng] 50-151
- Low-temperature amorphous phase in a fragile glass-forming substance. Cohen, L., et al. [1995.eng] 50-5971
- Mechanism for consolidating ice and saline frozen ground with polyvinyl alcohol admixtures. Cheverev, V.G., et al. [1993.rus] 50-127
- Microscopy of xylem ray supercooling wood tissues response to freezing stress. Rustic, Z., et al. [1995.eng] 50-3341
- Moisture transfer, water-soluble substances and structural transformation during freezing. Brovka, G.P., et al. [1996.rus] 50-6821
- New simple route to the synthesis of protease substrates in ice. Ullmann, D., et al. [1996.eng] 50-6713
- Process for the treatment of a waste water stream. Janssen, J.J., et al. [1993.eng] 50-2233
- Rock massif response to subzero temperature fluctuations. Chislov, A.I. [1991.eng] 50-1745
- Scanning electron microscopy of free water in frozen plant tissues. Yaklich, R.W., et al. [1996.eng] 50-5209
- Solidification of water in a buried pipe. Negiz, A., et al. [1995.eng] 50-1967
- Tree leaf cell response to cold acclimation. Rajashekar, C.B., et al. [1996.eng] 50-6555
- Tree tissue xylem dysfunction from freezing stress. Hacke, U., et al. [1996.eng] 50-5773
- Virification of articular cartilage by high-pressure freezing. Studer, D., et al. [1995.eng] 50-6589
- See also:* Artificial freezing; Concrete freezing; Ice formation; Pipeline freezing; Regulation; Sea water freezing; Seasonal freeze thaw; Soil freezing; Spray freezing; Vacuum freezing
- Freezing depth**
See also: Frost penetration
- Freezing front**
Active layer moisture migration in Alaskan soils. Outcalt, S.I., et al. [1996.eng] 50-4631
- Analysis of thermal stresses around a cryosurgical probe. Rabin, Y., et al. [1996.eng] 50-5814
- Calculation of frozen wall growth during artificial freezing sinking. Li, S.X., [1995.eng] 50-4521
- Calculation of water transport in the LR 90 test. Onalp, A., [1977.eng] 50-2325
- Development of a quantitative model of frost heave. Holden, J.T., [1977.eng] 50-2322
- Effects of freeze-thaw cycles on the properties of a sensitive clay. Roy, M., et al. [1995.fre] 50-581
- Effects of the variation in suction and heat flow during the frost heaving process. Jones, R.H., [1977.eng] 50-2323
- Electrical freezing potentials measured in a pingo growing in the western Canadian Arctic. Parameswaran, V.R., et al. [1996.eng] 50-5471
- Estimation of freeze drying transport coefficients. Lombrana, J.I., et al. [1996.eng] 50-5692
- Freeze closing of a convectively cooled parallel plate channel. Lipnicki, Z., et al. [1996.eng] 50-6461
- Freeze concentration by layer crystallization. Fiesland, O., [1995.eng] 50-5943
- Freezing of a salt solution in a packed bed. Chellaiah, S., et al. [1995.eng] 50-2956
- Freezing of a salt solution in a packed bed. Chellaiah, S., et al. [1996.eng] 50-3909
- Freezing point depression of water in concrete aggregates. Salcedo, M.A., et al. [1995.eng] 50-2634
- Freezing soil textures allowing for compressibility of the unfrozen zone. Gorelik, I.A.B., et al. [1996.eng] 50-6484
- Frost heave due to ice lens formation in freezing soils. 1. Theory and verification. Sheng, D., et al. [1995.eng] 50-742
- Fundamentals of ice lens formation. Takagi, S., [1975.eng] 50-3390
- Groundwater flow and heat conduction in soil around a freeze pipe. Hashemi, H.T., et al. [1996.eng] 50-4606
- Heat transfer and frost-thaw penetration in soil surrounding an inclusion of sand. Peck, L., et al. [1995.eng] 50-726
- Ice formation and structure in various freezing soils. Wang, J.C., et al. [1995.eng] 50-4515
- Ice propagation in concrete. Wang, K., et al. [1995.eng] 50-2633
- Incorporation and rejection of alum sludge flocs by an advancing freezing front. Parker, P.J., et al. [1996.eng] 50-6170
- Interface location and flow visualization in water-ice systems. Elkouh, N., et al. [1996.eng] 50-6459
- Mathematical model and the Takashi model of soil freezing. Nakano, Y., [1996.eng] 50-6485
- Modeling frost heave of roads with a geotextile layer. Konrad, J.M., et al. [1996.eng] 50-5663
- Modelling of permafrost depth in France during the last 120,000 years. Lebre, P., et al. [1996.fre] 50-4570
- Moisture movement and freezing pressures. Hoekstra, P., [1968.eng] 50-1976
- Moisture uptake and service life of concrete exposed to frost. Fagerlund, G., [1995.eng] 50-2635
- Phase change problems in soil freezing. Li, S.X., [1989.chi] 50-1376
- Pore structure in concrete at low temperatures. Matala, S.P., [1995.eng] 50-2675
- Pressure studies on frost heave in soil and glaciers. Radd, F.J., et al. [1996.eng] 50-1409
- Problem of primary frost heave with frost penetration. Ding, Z.Z., [1995.eng] 50-2162
- Scanning microscopy of an autofluorescent biological substance. Evans, J., et al. [1996.eng] 50-4532
- Secondary precipitates in Pleistocene and present cryogenic environments. Vogt, T., et al. [1996.eng] 50-4045
- Stress and temperature effects on silt frost heave. Marandi, S.M., et al. [1996.eng] 50-6109
- Supercooling and the Mpemba effect: when hot water freezes quicker than cold. Auerbach, D., [1995.eng] 50-5706
- Temperatures and stresses in frost susceptible soil around a chilled pipeline. Coutts, R.J., [1991.eng] 50-70
- Thermal impact of a buried chilled gas pipeline. Raad, L., et al. [1996.eng] 50-6124
- Thermal stability of the freezing front in porous media such as soils. Bronfenbrener, L., et al. [1996.eng] 50-6479
- Vertical migration of diesel into silty sand subject to cyclic freeze-thaw. Biggar, K.W., et al. [1996.eng] 50-6117
- Winter methane dynamics in a temperate peatland. Melloh, R.A., et al. [1996.eng] 50-6052
- Freezing indexes**
Calculated and measured air and soil freeze-thaw frequencies. Baker, D.G., et al. [1995.eng] 50-1217
- Comparison of load restriction timings determined using FHWA guidelines and frost tubes. Yesiller, N., et al. [1996.eng] 50-4752
- Comparison of methods used to create estimate of air-freezing index. Steurer, P.M., et al. [1995.eng] 50-360
- Effect of microclimate on road superstructures. Final report. Dysli, M., et al. [1986.fre] 50-3320
- Estimating soil temperatures and frost in the lake effect snow-belt region, Michigan, USA. Isard, S.A., et al. [1995.eng] 50-1140
- Frost action in subgrade soils—a field/laboratory study. Hoffman, G.L., [1979.eng] 50-4616
- Frost heave studies by natural freezing. Stenberg, L., [1981.eng] 50-2145
- Frost-free record reconstruction for eastern Massachusetts, 1733-1980. Baron, W.R., et al. [1984.eng] 50-4915
- Joint probability of environmental loads on marine structures. Liu, D.F., et al. [1995.eng] 50-196
- Probability distributions used in 100-year return period of air-freezing index. Steurer, P.M., [1996.eng] 50-4753
- Freezing nuclei**
Characterization of a novel ice-nucleating bacterium. Kawahara, H., et al. [1995.eng] 50-1960
- Molecular dynamics study of the freezing of clusters of chalcogen hexafluorides. Kinney, K.E., et al. [1996.eng] 50-5780
- Principles of ice nucleation. Vali, G., [1995.eng] 50-3271
- Freezing point depressants**
See also: Antifreezes
- Freezing points**
Action of HPLC6 antifreeze polypeptide in solution. Brooke-Taylor, C.A., et al. [1996.eng] 50-5298
- Antifreeze glycopeptides and peptides in fish from the Weddell and Lazarev seas. Wöhrmann, A.P.A., [1996.eng] 50-3959
- Cold resistance mechanisms in high desert Andean plants. Squeo, F.A., et al. [1996.eng] 50-5774
- Comments on paper by P.S. Anderson. Makkonen, L., et al. [1996.eng] 50-6587
- Comparison between arctic and antarctic polar stratospheric clouds. Dye, J.E., et al. [1996.eng] 50-6542
- Convective instability influence on freezing time of warm water. Maciejewski, P.K., [1996.eng] 50-4220
- Design of capacitor to measure permittivity of supercooled aqueous solutions. Wolter, F., et al. [1996.eng] 50-5503
- Drilling waste disposal in the Arctic using below-grade freeze-back. Maunder, T.E., et al. [1991.eng] 50-1697
- Effect of chemical composition of soils on the strength and deformability of frozen saline soils. Roman, L.T., [1995.eng] 50-632
- Effects of plant cellular tissue structure on freezing tolerance. Fujikawa, S., et al. [1996.eng] 50-5675
- Eking out icing info. Hamun, J., [1995.eng] 50-3687
- Freezing characteristics of rigid plant tissues. Rajashekar, C.B., et al. [1996.eng] 50-6554
- Freezing point depression by common salts: implications for corrosion in cold climates. Brass, G.W., [1996.eng] 50-5951
- Freezing point depression of water in concrete aggregates. Salcedo, M.A., et al. [1995.eng] 50-2634
- Freezing temperature of soil and unfrozen water content in frozen soil. Tao, Z.X., et al. [1989.chi] 50-1371
- Ice and hydrate freezing points of aqueous ethylene oxide solutions. Glew, D.N., et al. [1995.eng] 50-45
- Ice-nucleation properties of various bacterial species. Kipriavova, E.A., et al. [1995.eng] 50-3673
- Influence of supercooling on salt-water saturated porous medium. Okada, M., et al. [1996.eng] 50-6762
- Innovations on a quartz crystal microbalance frost-point hygrometer. Kaluzhny, M., et al. [1995.eng] 50-414
- Isolation and identification of antifreeze protein with high activity in *Ammopiptanthus mongolicus*. Fei, Y.B., et al. [1994.chi] 50-1835
- Lidar observations of polar stratospheric cloud growth. Poole, L.R., et al. [1988.eng] 50-4634
- Low cloud icing climatological data. Takasugi, S., [1970.eng] 50-4405
- Manual for highway winter anti-icing practices. Ketcham, S.A., et al. [1996.eng] 50-6060
- Measuring salt's effectiveness in New York. Hart, R.D., et al. [1995.eng] 50-1560
- Microwave retrieval algorithm for remote sensing of precipitation. Weng, F., et al. [1992.eng] 50-3566
- Moisture transfer, water-soluble substances and structural transformation during freezing. Brovka, G.P., et al. [1996.rus] 50-6821
- North Polar stratospheric cloud dynamics. Rosen, J.M., et al. [1990.eng] 50-4723
- On the polar stratospheric cloud formation potential of the northern stratosphere. Pawson, S., et al. [1995.eng] 50-2116
- Phase transitions of ice confined in mesopores. Hansen, E.W., et al. [1996.eng] 50-4141
- Phase transitions of water films adsorbed on pyrogenic silica. Bogdan, A., et al. [1996.eng] 50-2021
- Physical-chemical fundamentals of strength of frozen saline soils. Roman, L.T., et al. [1996.rus] 50-6826
- Pliocene climates: the nature of the problem. Crowley, T.J., [1996.eng] 50-6624
- Potential food applications of high-pressure effects on ice-water transitions. Kalichevsky, M.T., et al. [1995.eng] 50-1955
- Relationship of tropospheric dry layers to freezing precipitation type. Smith, G., [1995.eng] 50-6684
- Role of droplet composition in polar stratospheric cloud freezing. Meilinger, S.K., et al. [1995.eng] 50-4874
- Satellite radar observations of Beaufort Sea autumn freeze-up. Winebrenner, D.P., et al. [1996.eng] 50-6218
- Saturated cemented porous material permeability during freezing. Kralj, B., et al. [1996.eng] 50-5024
- Spectroscopic analysis of frozen cement paste microstructure. Olson, R.A., et al. [1995.eng] 50-1406
- Spectroscopy of freezing mechanisms of sulfuric acid aerosols. Bertram, A.K., et al. [1996.eng] 50-4143
- Studies on ice nucleating behavior of AgI-AgBr-CuBr systems. Radhakrishnan, T., et al. [1996.eng] 50-4290
- Sulfuric acid monohydrate: formation and heterogeneous chemistry in the stratosphere. Zhang, R.Y., et al. [1995.eng] 50-635
- Supercooling and the Mpemba effect: when hot water freezes quicker than cold. Auerbach, D., [1995.eng] 50-5706
- See also:* Melting points
- Freezing rate**
Electrical freezing potentials measured in a pingo growing in the western Canadian Arctic. Parameswaran, V.R., et al. [1996.eng] 50-5471
- Essential types of frost heaving development of soils. Xu, X.Z., et al. [1995.eng] 50-4516
- Field-tested model for freeze protection of multiphase pipelines in arctic operations. Eager, K., [1991.eng] 50-1769
- Formation of poly(vinyl alcohol) cryogels through polymer solution freezing-thawing. Lozinski, V.I., et al. [1995.eng] 50-1177
- Freeze-thaw effects of fine-grained soil permeability. Eigenbrod, K.D., [1996.eng] 50-6749
- Freezing of a salt solution in a packed bed. Chellaiah, S., et al. [1996.eng] 50-3909
- Freezing point depression of water in concrete aggregates. Salcedo, M.A., et al. [1995.eng] 50-2634
- Freezing rate effects on colloid viscoelasticity. Sahagian, M.E., et al. [1995.eng] 50-1253
- Heat budget of a midlatitude squall line and implications for potential vorticity production. Braun, S.A., et al. [1996.eng] 50-5475
- Ice propagation in concrete. Wang, K., et al. [1995.eng] 50-2633
- Kinetics of freezing of dimethylacetylene. An electron diffraction study. Huang, J.F., et al. [1995.eng] 50-151
- Nucleation rates in freezing of molecular clusters. Bartell, L.S., [1995.eng] 50-2346
- Numerical models of heat transfer during food freezing. Tocchi, A.M., et al. [1995.eng] 50-596
- Quantitative cold differential thermal analysis. Dunn, J.R., et al. [1965.eng] 50-4739
- Scanning microscopy of an autofluorescent biological substance. Evans, J., et al. [1996.eng] 50-4532
- Supercooling and the Mpemba effect: when hot water freezes quicker than cold. Auerbach, D., [1995.eng] 50-5706
- Unsuitability of meteoritic and other nuclei for polar stratospheric cloud freezing. Biermann, U.M., et al. [1996.eng] 50-6513
- Fresh water**
Simulation of abrupt climate changes. Manabe, S., et al. [1995.eng] 50-1520

Friction

Friction

See [also]: Glacier friction; Ice friction; Internal friction; Metal ice friction; Metal snow friction; Plastics ice friction; Plastics snow friction; Rubber ice friction; Rubber snow friction; Skid resistance; Wood snow friction

Fronts (meteorology)

- Canadian Atlantic Storms Program: progress and plans of the meteorological component. Stewart, R.E., [1991,eng] 50-4416
- Convergence band clouds along the west coast of Hokkaido. Kobayashi, F., et al., [1993,eng] 50-6040
- Extreme warm frontal icing on 25 February 1994 causes an aircraft accident near Uttoxeter. Pike, W.S., [1995,eng] 50-2796
- Fargo snowstorm of 6-8 January 1989. Weisman, R.A., [1996,eng] 50-6061
- February 1994 ice storm in the southeastern U.S. Lott, J.N., et al., [1996,eng] 50-5372
- Finger-shaped echoes of hailstorm and the possible mechanism of their formation. Ma, Z.H., et al., [1983,eng] 50-4096
- Forecasting the impacts of strong wintertime post-cold front winds in the northern plains. Kapela, A.F., et al., [1995,eng] 50-350
- Ground and aircraft weather observations and in-flight aircraft icing. Bernstein, B.C., et al., [1996,eng] 50-5373
- Hailstorms in Switzerland: left movers, right movers, and false hooks. Houze, R.A., Jr., et al., [1993,eng] 50-1444
- Incelandic Low. Hordson, R.M., [1996,eng] 50-4992
- Infrasound signatures of a polar low in the Norwegian and Barents Sea on 23-27 March 1992. Ørbeek, J.B., et al., [1996,eng] 50-2026
- Mesoscale and microscale characteristics of a CASP II severe ice pellet storm. Hanesiak, J.M., [1994,eng] 50-4170
- Mesoscale precipitation structure in winter storms. Ramamurthy, M.K., et al., [1991,eng] 50-4417
- Numerical simulation of land-breeze-induced snowbands along the western shore of Lake Michigan. Ballentine, R.J., [1982,eng] 50-3648
- Numerical simulation of polar lows. Grønås, S., et al., [1995,eng] 50-2525
- Observation of snowfall and airflow over a low mountain barrier. Nakai, S., et al., [1995,eng] 50-341
- Origin and structure of a numerically simulated polar low over Hudson Bay. Albright, M.D., et al., [1995,eng] 50-2526
- Polar lows in the Labrador Sea—a case study. Moore, G.W.K., et al., [1996,eng] 50-3821
- Polar lows. Rasmussen, E.A., [1996,eng] 50-4997
- Production and depletion of supercooled liquid water in a Colorado winter storm. Politovich, M.K., et al., [1995,eng] 50-3560
- Radiometric observations of supercooled liquid water within a split front over Sierra Nevada. Heggli, M.F., et al., [1985,eng] 50-4972
- Snowfall generated by surface topographic effects upon wind direction. Wesley, D.A., et al., [1995,eng] 50-1079
- Some characteristics of hail cloud formation processes in Xiyang area. Wang, A.S., et al., [1983,eng] 50-4098
- Structure and evolution of winter cyclones in the central United States and their effects on the distribution of precipitation. Part II: arctic fronts. Wang, P.Y., et al., [1995,eng] 50-1565
- Study on some problems of cold waves in Xinjiang. Xu, J.Q., et al., [1985,chi] 50-2175
- Unique aircraft icing event—a case study. Peters, J.L., [1990,eng] 50-4404
- Warm core in a polar low observed with a satellite microwave sounding unit. Forsythe, J.M., et al., [1996,eng] 50-4186
- Winter storms over Canada. Stewart, R.E., et al., [1995,eng] 50-1852
- Frost**
- Detection and monitoring of H₂O and CO₂ ice clouds on Mars. Bell, J.F., III, et al., [1996,eng] 50-5195
- First observational evidence for condensation of Io's SO₂ atmosphere on the nightside. Buratti, B.J., et al., [1995,eng] 50-2154
- Frost-free record reconstruction for eastern Massachusetts. 1733-1980. Baron, W.R., et al., [1984,eng] 50-4915
- Frost. Henry, J.A., [1996,eng] 50-4982
- High-density amorphous ice, the frost on interstellar grains. Jenniskens, P., et al., [1995,eng] 50-2780
- Hoods, mists, frosts, and ice caps at the poles of Mars. Dollfus, A., et al., [1996,eng] 50-5194
- Laboratory infrared spectra (2.3-23μm) of SO₂ phases: applications to Io surface analysis. Nash, D.B., et al., [1995,eng] 50-1463
- Low brightness temperatures of Martian polar caps: CO₂ clouds or low surface emissivity? Forget, F., et al., [1995,eng] 50-2120
- Radiation frost susceptibility and the association between sky exposure and leaf size. Jordan, D.N., et al., [1995,eng] 50-2132
- Seasonal nitrogen cycles on Pluto. Hansen, C.J., et al., [1996,eng] 50-4347
- SO₂ distributions on Io. Sartoretti, P., et al., [1996,eng] 50-6529
- State of SO₂ on Io's surface. Kerton, C.R., et al., [1996,eng] 50-4257
- Thermodynamic analysis of the influence of electric fields on frost formation. Ma, H.B., et al., [1995,eng] 50-2156

Frost action

- Active patterned ground and cryoturbation on Muckish Mountain, Co. Donegal, Ireland. Wilson, P., et al., [1995,eng] 50-665
- Alleviating the effects of frost action on gas distribution and regulator station piping. Arnold, J.M., et al., [1985,eng] 50-4363
- Alteration of C-S-H and ASR gels in deteriorated concretes. Newfoundland, Canada. Katayama, T., et al., [1995,eng] 50-2676
- Annual variation of the temperature field in a concrete dam. Daoud, M., et al., [1996,eng] 50-6439
- Assessing frost damage in compacted clay liners. Benson, C.H., et al., [1995,eng] 50-1133
- Assessment of frost damage of concrete and its repair technique. Tsukinaga, Y., et al., [1995,eng] 50-2673
- Cement type and freeze-thaw resistance of concrete. Stark, J., et al., [1995,eng] 50-2637
- Climatic significance of bristlecone pine frost-ring records. Brunstein, F.C., [1996,eng] 50-4338
- Conception for the rehabilitation of transportation infrastructures in northern regions. Ladanyi, B., [1994,fre] 50-4946
- Concepts for frost design for upgraded runway at CONUS Base 18. Johnson, T.C., [1984,eng] 50-2308
- Concrete under severe conditions: environment and loading. Sakai, K., ed., et al., [1995,eng] 50-2618
- Cracking in mortar due to freezing and thawing. Narita, T., et al., [1995,eng] 50-2674
- Cracking of asphalt pavement and its prevention. Tian, D.T., et al., [1989,chi] 50-1394
- Cryogenic fissures as a factor of soil anisotropy. Kulikov, A.I., [1996,eng] 50-5449
- Deterioration in concrete bridges at the seashore in cold regions. Shoya, M., et al., [1992,eng] 50-2754
- Durability cracking from freeze-thaw in concrete. Janssen, D.J., et al., [1986,eng] 50-2801
- Durability of concrete in cold climates. Pigeon, M., et al., [1995,eng] 50-919
- Durable concrete for northern environments. Gerwick, B.C., Jr., [1996,eng] 50-5950
- Effect of de-icing salts on frost damage of high-strength concrete. Miura, T., et al., [1995,eng] 50-2639
- Effect of pumping on entrained air voids: role of pressure. Janssen, D.J., et al., [1995,eng] 50-2636
- Environmental-induced longitudinal cracking in cold regions pavements. Scher, R.L., [1996,eng] 50-6181
- Evaluation of frost action on concrete. Kleiner, V.D., [1996,eng] 50-4367
- Evaluation of the precision of freeze thaw and deicing salt testing by the CDF procedure. Setzer, M.J., et al., [1995,eng] 50-2622
- Field observations of frost action in intact and weathered Champlain Sea clay. Konrad, J.M., et al., [1995,eng] 50-580
- Field observations of instrumented highway sections with different frost protections. Konrad, J.M., et al., [1996,eng] 50-6161
- Forecasting of deformation of asphalt paved frozen roadbed of the Qinghai-Xizang Highway. Wu, Z.W., et al., [1989,chi] 50-1392
- Forecasting service life of frost-penetrated concrete. Fagerlund, G., [1996,eng] 50-4788
- Freeze-thaw and deicing salt resistance of concrete—basic research and testing. Setzer, M.J., [1995,eng] 50-2620
- Freezing and thawing resistance of concrete pavers saturated in de-icing chemicals. Ghafouri, N., et al., [1995,eng] 50-2638
- Freezing point depression of water in concrete aggregates. Salcedo, M.A., et al., [1995,eng] 50-2634
- Frost action in subgrade soils—a field/laboratory study. Hoffman, G.L., [1979,eng] 50-4616
- Frost action in subgrades of roads and airfields. Pufahl, D.E., [1996,eng] 50-6188
- Frost characteristic of saline soil and its effect on canals. Feng, T., [1989,chi] 50-1388
- Frost damage of concrete structures in Hokkaido. Yamashita, H., et al., [1995,eng] 50-2662
- Frost durability of high strength concrete: effect of internal cracking on ice formation. Jacobsen, S., et al., [1996,eng] 50-6097
- Frost durability of high-performance concrete. Marchand, J., et al., [1995,eng] 50-2640
- Frost effects on high strength concrete without air entrainment. Kukko, H., [1995,eng] 50-2627
- Frost heave investigation of I 275. Novak, E.C., Jr., [1982,eng] 50-2058
- Frost heave studies by natural freezing. Stenberg, L., [1981,eng] 50-2145
- Frost resistance of concrete canals in Turkey. Tosun, H., [1995,eng] 50-2665
- Frost resistance of marine concrete in a cold environment. Ayuta, K., et al., [1995,eng] 50-2663
- Frost resistance of surface-coated concrete. Takahashi, J., et al., [1994,jpn] 50-2834
- Gelifluction in the alpine periglacial environment of the Tianshan Mountains, China. Liu, G.N., et al., [1996,eng] 50-6704
- Heaving pressures as a means of assessing frost susceptibility. Kettle, R.J., et al., [1981,eng] 50-2142
- High strength concrete—freeze/thaw testing and cracking. Jacobsen, S., et al., [1995,eng] 50-3700
- Ice propagation in concrete. Wang, K., et al., [1995,eng] 50-2633

- Incorporation of a drainage layer and infiltration into FROST. Abdel-Salam, A., et al., [1993,eng] 50-6050
- Influence of the properties of porous media on the durability of frozen calcareous rocks. Bellanger, M., et al., [1996,eng] 50-4862
- Mathematical model of frost heave and thaw settlement in pavements—draft. Guymon, G.L., et al., [1986,eng] 50-4348
- Mathematical model to correlate frost heave of pavements with laboratory predictions. Final report. Berg, R.L., et al., [1996,eng] 50-3333
- Mechanism of deterioration of concrete under severe environment. Podval'nyi, A.M., [1995,eng] 50-2686
- Micromechanical study on deterioration of concrete due to freezing and thawing. Hori, M., et al., [1995,eng] 50-2684
- Microstructural features of freeze-thaw deterioration of concrete. Bakharev, T., et al., [1995,eng] 50-367
- Microstructure durability of concretes exposed to arctic conditions. Sarkar, S.L., et al., [1995,eng] 50-2664
- Moisture uptake and service life of concrete exposed to frost. Fagerlund, G., [1995,eng] 50-2635
- Mutual influence of ice heave and interlayer swelling in clay rocks. Final report (draft). Czurda, K.A., et al., [1986,eng] 50-1690
- Nondestructive evaluation of deteriorated concrete structures. Ohisu, M., et al., [1995,eng] 50-2672
- Nunataks of the last ice sheet in northwest Scotland. McCarroll, D., et al., [1995,eng] 50-3366
- Paleogeographic significance of Norwegian block field periglacial processes. Sellier, D., [1995,fre] 50-4878
- Patterned ground in the inner Woodfjord-area, NW Spitsbergen. Thannheiser, D., et al., [1994,ger] 50-1589
- Pavement repairs with metallic glass fiber reinforced concrete. Granju, J.L., et al., [1992,eng] 50-2755
- Periglacial phenomena found in Mount Xixia Bangma region. Zheng, B.X., et al., [1982,chi] 50-6607
- Prevention of frost damage to enclosure walls. Wang, G.S., [1989,chi] 50-1384
- Proceedings. ACI International Conference on Evaluation and Rehabilitation of Concrete Structures and Innovations in Design. Hong Kong, Dec. 2-6, 1991, [1992,eng] 50-2752
- Proceedings. Colloquium on Frost Heave Testing and Research, Nottingham, England, May 18, 1977, [1977,eng] 50-2311
- Proceedings. Seminar on the Prediction of Frost Heave, Nottingham, England, Apr. 9, 1981, [1981,eng] 50-2135
- Repair measures for deteriorated abutments and piers due to frost damage. Tsutsumi, Y., et al., [1995,eng] 50-2659
- Restoration of Kakabeka Falls, Ontario, Canada. Grieve, R.G., et al., [1992,eng] 50-2763
- Role of soil microstructure in the geotechnical properties of freezing soils. White, T.L., et al., [1996,eng] 50-6483
- Saturated cemented porous material permeability during freezing. Kralj, B., et al., [1996,eng] 50-5024
- SEM observations of the microstructure of frost deteriorated and self-healed concretes. Jacobsen, S., et al., [1995,eng] 50-3701
- Some behaviour of frost resistance of water permeable concrete. Tokushige, H., et al., [1995,eng] 50-2681
- Sources of variability in a constant boundary temperature frost heave test. Lomas, K.J., [1981,eng] 50-2143
- Strength development of setting accelerated concrete under low temperature environment. Anazawa, M., et al., [1995,eng] 50-2644
- Studies of methods to assess the quality of the surface layer of concrete. Tsukinaga, Y., et al., [1992,eng] 50-2761
- Temperatures and stresses in frost susceptible soil around a chilled pipeline. Coutts, R.J., [1991,eng] 50-70
- Use of alternative materials in pavement frost protection. Doré, G., et al., [1995,eng] 50-1157
- Frost deposit**
- See [also]: Hoarfrost
- Frost forecasting**
- Applications of fuzzy cluster analysis to integrated assessment of snow disaster. Feng, X.Z., et al., [1995,chi] 50-3989
- Automated nowcasting model of road surface temperature and state for winter road maintenance. Shao, J., et al., [1996,eng] 50-6571
- Climate of Inner Mongolia. Wang, W.H., ed., [1990,chi] 50-2172
- Climate of Xinjiang. Li, J.F., ed., [1991,chi] 50-2174
- Comparison of methods used to create estimate of air-freezing index. Steurer, P.M., et al., [1995,eng] 50-360
- Compilation of the map of seasonal frozen depth in Jilin Province at 1:2,000,000. Zhang, X., et al., [1989,chi] 50-1351
- Development of road traffic information system responsive to driver telephone requests. Horikawa, T., et al., [1993,jpn] 50-2838
- Efficacy of ice detector hoarfrost observations. Ryerson, C.C., et al., [1996,eng] 50-4033
- Forecasting earth surface temperature for the optimal application of frost protection methods. Krasovitski, B., et al., [1996,eng] 50-5021
- Frost heave prediction in the Netherlands. Post, H.J., [1981,eng] 50-2140
- Major characteristics of snow disaster in Nagqu area of Xizang. Feng, X.Z., et al., [1995,chi] 50-3977
- Moisture-based model for calculating daily changes in seasonal soil frost depth. Ryerson, C.C., [1979,eng] 50-3713
- On the estimation of frost loads. Rajani, B., et al., [1996,eng] 50-6751
- Predicting brick frost-resistance. I. Robinson, G.C., et al., [1995,eng] 50-1109

Frost heave

Frost heave

- Predicting the level of frost penetration into landfill covers. Moo-Young, H.K., Jr., et al. [1996.eng] 50-6169
- Prediction of frost heave of roads—a simple empirical model. Sætersdal, R., [1981.eng] 50-2139
- Prediction of frost heave. Jones, R.H., [1981.eng] 50-2136
- Prediction of frost penetration beneath West Virginia pavements. Moulton, L.K., [1968.eng] 50-4549
- Predictive model of frost heave and thaw weakening. Guymon, G.L., et al. [1985.eng] 50-2310
- Probabilistic approach to determining frost heave. Chamberlain, E.J., et al. [1981.eng] 50-2141
- Probability distributions used in 100-year return period of air-freezing index. Steurer, P.M., [1996.eng] 50-4753
- Proceedings. Seminar on the Prediction of Frost Heave, Nottingham, England, Apr. 9, 1981. [1981.eng] 50-2135
- Relation of traffic to climate and road icing in downtown Sapporo. Matsuzawa, M., et al. [1995.jp] 50-6791
- Setting verification targets for minimum road temperature forecasts. Halsey, N.G.J., [1995.eng] 50-2794
- Study on some kinds of weather systems over and around the Qinghai-Xizang (Tibet) Plateau. Luo, S.W., et al. [1992.chi] 50-2178
- Study on some problems of cold waves in Xinjiang. Xu, J.Q., et al. [1985.chi] 50-2175
- Frost heave**
- Active patterned ground and cryonurbation on Muckish Mountain, Co. Donegal, Ireland. Wilson, P., et al. [1995.eng] 50-665
- Aggregate degradation in the frost heave test. Hill, J., [1977.eng] 50-2320
- Alleviating the effects of frost action on gas distribution and regulator station piping. Arnold, J.M., et al. [1985.eng] 50-4363
- Alternative road construction for stormwater management in cold climates. Steamark, C., [1995.eng] 50-2532
- Amine freezing point depressant for soil stabilization. Hemstreet, D.A., et al. [1996.eng] 50-6144
- Anti-frost behaviour of concrete lined canal with different structures. Song, B.Q., et al. [1989.chi] 50-1387
- Brief review of physical and mathematical models of frost heave. Holden, J.T., [1981.eng] 50-2137
- Calculating method of frost heaving reaction in seasonal frozen ground region. Zhou, Y.C., [1989.chi] 50-1366
- Calculation of water transport in the LR 90 test. Onalp, A., [1977.eng] 50-2325
- Cold regions infrastructure: an international imperative for the 21st century. International Conference on Cold Regions Engineering, 8th, Fairbanks, AK, Aug. 12-16, 1996. [1996.eng] 50-6106
- Creep and strength behaviour of frozen swelling clayey soils. Zhang, J.M., et al. [1989.chi] 50-1369
- Design guide for frost-protected shallow foundations. NAHB Research Center, [1994.eng] 50-3579
- Determining frost heave resistance of pile foundations. Orzhikhovskii, I.L., et al. [1992.eng] 50-38
- Development of a quantitative model of frost heave. Holden, J.T., [1977.eng] 50-2322
- Effect of fines content on frost heave. Tester, R.E., et al. [1996.eng] 50-6752
- Effect of mode of compaction on frost heave. Burns, J., [1977.eng] 50-2318
- Effect of water-table position on frost heave. Burns, J., [1977.eng] 50-2326
- Effects of the variation in suction and heat flow during the frost heaving process. Jones, R.H., [1977.eng] 50-2323
- Engineering behavior of frozen swelling soils. Wu, Z.W., et al. [1989.chi] 50-1378
- Environmental-induced longitudinal cracking in cold regions pavements. Scher, R.L., [1996.eng] 50-6181
- Essential types of frost heaving development of soils. Xu, X.Z., et al. [1995.eng] 50-4516
- Estimation of unsaturated permeability from suction curves. Thompson, J.D., [1981.eng] 50-2144
- Evaluation of reducing method of total heave amounts using soil-cement mixtures. Fukuda, M., et al. [1992.eng] 50-25
- Experimental design for laboratory simulation of periglacial solifluction processes. Harris, C., et al. [1996.eng] 50-5778
- Experimental studies of frost heave in soils subjected to external stress. Lavrov, S.A., et al. [1996.rus] 50-6814
- Experimental studies on the interaction of surface foundations on fills with heaving soils. Elgin, B.B., et al. [1993.rus] 50-130
- Field experiments on uplift force on a steel pipe due to frost heaving. Fukuda, M., et al. [1989.rus] 50-2248
- Field observations of frost action in intact and weathered Champlain Sea clay. Konrad, J.M., et al. [1995.eng] 50-580
- Field observations of instrumented highway sections with different frost protections. Konrad, J.M., et al. [1996.eng] 50-6161
- Floating slabs for unheated buildings. Crory, F.E., [1987.eng] 50-3757
- Forecasting of deformation of asphalt paved frozen roadbed of the Qinghai-Xizang Highway. Wu, Z.W., et al. [1989.chi] 50-1392
- Foundation heave induced by a subgrade cooling system over permafrost. Scher, R.L., [1991.eng] 50-1737
- Foundation rehabilitation at ADOT/FF Jim River Maintenance Camp. Rooney, J.W., et al. [1991.eng] 50-1768
- Freezing and cryogenic heave of finely dispersed soil. Buldovich, S.N., [1996.rus] 50-6815
- Frost action in subgrades of roads and airfields. Pufahl, D.E., [1996.eng] 50-6188
- Frost characteristic of saline soil and its effect on canals. Feng, T., [1989.chi] 50-1388
- Frost damage proofed pile. Takeda, T., et al. [1989.eng] 50-2243
- Frost heave along banks of canals. Zhu, Q., et al. [1989.chi] 50-1361
- Frost heave and frost heave force of large U-shaped and concrete lined canals. Li, A.G., [1989.chi] 50-1389
- Frost heave due to ice lens formation in freezing soils. 1. Theory and verification. Sheng, D., et al. [1995.eng] 50-742
- Frost heave due to ice lens formation in freezing soils. 2. Field application. Sheng, D., et al. [1995.eng] 50-743
- Frost heave in subgrade soils of hydraulic structures. Wang, J.G., et al. [1989.chi] 50-1360
- Frost heave investigation of I 275. Novak, E.C., Jr., [1982.eng] 50-2058
- Frost heave prediction in the Netherlands. Post, H.J., [1981.eng] 50-2140
- Frost heave research at the University of Nottingham. Jones, R.H., [1977.eng] 50-2312
- Frost heave studies by natural freezing. Stenberg, L., [1981.eng] 50-2145
- Frost heave susceptibility in Transbaikalia. Sal'nikov, P.I., [1996.rus] 50-6399
- Frost heave susceptibility of hydraulic structure subgrade soils. Xie, Y.Q., et al. [1989.chi] 50-1391
- Frost heave—testing facilities. Kettle, R.J., [1977.eng] 50-2315
- Frost heaving force of heated buildings. Liu, H.X., [1989.chi] 50-1382
- Frost heaving force on foundations in seasonal frozen ground region. Xu, S.X., [1989.chi] 50-1367
- Frost heaving of a saturated soil. Ishizaki, T., et al. [1992.eng] 50-36
- Frost heaving of forest tree seedlings: a review. Goulet, F., [1995.eng] 50-6520
- Frost-heave test as a compliance requirement. Sherwood, P.T., [1977.eng] 50-2317
- Full depth testing of frost susceptible soils. Final report. Rice, D.C., [1982.eng] 50-1689
- Full depth testing of frost susceptible soils. Rice, D.C., [1974.eng] 50-4401
- Fundamentals of ice lens formation. Takagi, S., [1975.eng] 50-3390
- Gas pipelines operating at sub-zero temperatures in the UK. Greene, D.P., et al. [1995.eng] 50-178
- Geocryological typification of a territory according to frost heave formation conditions. Verkhoviz, I.L., et al. [1993.rus] 50-113
- Grading, degradation and compaction considerations in relation to specimen preparation. Hughes, R., [1977.eng] 50-2316
- Ground freezing 91. Vol.2. International Symposium on Ground Freezing, 6th, Beijing, Sep. 10-12, 1991. [1992.eng] 50-23
- Ground temperature and frost heave near Showa Station. Sawagaki, T., [1995.eng] 50-3696
- Heaving pressures and frost heave. Kettle, R.J., [1977.eng] 50-2324
- Heaving pressures as a means of assessing frost susceptibility. Kettle, R.J., et al. [1981.eng] 50-2142
- Hydraulic properties and frost susceptibility of unsaturated soil. Chen, X.B., et al. [1989.chi] 50-1359
- Icelandic turf-banked terrace geomorphology. Douglas, T.D., et al. [1996.eng] 50-5498
- II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973. [1973.rus] 50-5139
- Implications of frost heave for patterned ground, Tibet Plateau, China. Wang, B.L., et al. [1995.eng] 50-2808
- Incorporation of a drainage layer and infiltration into FROST. Abdel-Salam, A., et al. [1993.eng] 50-6050
- Indirect assessment of frost susceptibility. Hurt, K.G., [1977.eng] 50-2327
- Influence of heating on the frozen depth of building foundation. Hong, Y.P., et al. [1989.chi] 50-1383
- Influence of temperature and pressure on cryogenic structure of freezing soil. Wang, J.C., et al. [1995.chi] 50-5636
- Inherent variability of frost heave specimens. Nicholls, R.A., [1977.eng] 50-2319
- Initial results from small-scale frost heave experiments in a centrifuge. Ketcham, S.A., et al. [1995.eng] 50-728
- Living on ice: problems of urban development in Canada's north. French, H.M., [1994.eng] 50-6099
- Manual for freezing soil heave stress testing unit. Martin, R.T., [1974.eng] 50-4265
- Mathematical model and the Takashi model of soil freezing. Nakano, Y., [1996.eng] 50-6485
- Mathematical model of frost heave and thaw settlement in pavements—draft. Guymon, G.L., et al. [1986.eng] 50-4348
- Mathematical model to correlate frost heave of pavements with laboratory predictions. Final report. Berg, R.L., et al. [1996.eng] 50-3333
- Minimum depth for building foundations subject to frost heave. Jiang, H.J., et al. [1989.chi] 50-1381
- Modeling frost heave of roads with a geotextile layer. Konrad, J.M., et al. [1996.eng] 50-5663
- Modelling of ice formation processes in freezing soils. Gorelik, I.A.B., et al. [1996.rus] 50-6813
- Moisture transfer, water-soluble substances and structural transformation during freezing. Brovka, G.P., et al. [1996.rus] 50-6821
- Mutual influence of ice heave and interlayer swelling in clay rocks. Final report (draft). Czarda, K.A., et al. [1986.eng] 50-1690
- New concept in studying and forecasting frost heave. Nevecheva, V.L., [1996.rus] 50-6398
- On the estimation of frost loads. Rajani, B., et al. [1996.eng] 50-6751
- Open graded base to reduce thaw weakening in flexible pavements. Kestler, M.A., [1996.eng] 50-6179
- Pavement design applying allowable frost heave. Saarela, S., [1996.eng] 50-6180
- Pavement distress caused by deep heave in Anchorage, Alaska. Tart, R.G., Jr., et al. [1996.eng] 50-6183
- Permafrost and climate change: geotechnical implications. Williams, P.J., [1995.eng] 50-5238
- Physical process and cryogenic texture of soil during freezing. Wang, J.C., et al. [1989.chi] 50-1353
- Physics, mathematics and technology of ice segregation. Arakawa, K., [1981.eng] 50-2138
- Piles and pile foundations under conditions of Siberia. Solov'ev, I.U., ed. [1994.rus] 50-5141
- Pore size effects on road subgrade frost susceptibility. Wood, L.E., et al. [1982.eng] 50-2028
- Prediction of frost heave of roads—a simple empirical model. Sætersdal, R., [1981.eng] 50-2139
- Prediction of frost heave. Jones, R.H., [1981.eng] 50-2136
- Predictive model of frost heave and thaw weakening. Guymon, G.L., et al. [1985.eng] 50-2310
- Preliminary assessment of design and performance of frost susceptibility testing facilities. Dudek, S., [1977.eng] 50-2313
- Pressure studies on frost heave in soil and glaciers. Radd, F.J., et al. [1966.eng] 50-1409
- Preventing frost damage to irrigation canals by geotextile. Chen, L., et al. [1996.eng] 50-6167
- Prevention of frost damage to enclosure walls. Wang, G.S., [1989.chi] 50-1384
- Probabilistic approach to determining frost heave. Chamberlain, E.J., et al. [1981.eng] 50-2141
- Problem of primary frost heave with frost penetration. Ding, Z.Z., [1995.eng] 50-2162
- Proceedings. Chinese National Conference on Permafrost, 3rd, Harbin, China, Aug. 19-24, 1986. [1989.chi] 50-1340
- Proceedings. Colloquium on Frost Heave Testing and Research, Nottingham, England, May 18, 1977. [1977.eng] 50-2311
- Proceedings. Seminar on the Prediction of Frost Heave, Nottingham, England, Apr. 9, 1981. [1981.eng] 50-2135
- Rapid test for the determination of frost susceptibility of soils. Leary, R.M., [1977.eng] 50-4259
- Rates of heave and surface rotation of periglacial frost boils in the White Mountains, California. Wilkerson, F.D., [1995.eng] 50-3785
- Regional forecasting of cryogenic processes and ecology of the cryolithozone. Grechishchev, S.E., [1990.rus] 50-1598
- Relict sorted patterned ground in Rostu, northernmost Sweden. Kling, J., [1996.eng] 50-5581
- Research program for reducing frost heave with geosynthetic capillary barriers. Henry, K.S., et al. [1996.eng] 50-6129
- Review of papers from previous conferences on heat and mass transfer in freezing soils. Fukuda, M., et al. [1992.eng] 50-24
- Review of papers on engineering problems of frozen ground. Thimus, J.F., [1992.eng] 50-28
- Role of climate in periglacial solifluction. Harris, C., [1993.eng] 50-845
- Significance of factors in a foundation-fill-heaving base. Babello, V.A., et al. [1993.rus] 50-131
- Soil freeze-thaw effects on bank erodibility and stability. Gatto, L.W., [1995.eng] 50-2706
- Soil frost heave and bearing tests. Lausanne, Switzerland. Federal Institute of Technology. Laboratory of Soil Mechanics. (Ecole Polytechnique Fédérale de Lausanne. Laboratoire de mécanique des sols) (Eidgenössische Technische Hochschule), [1988.fre] 50-1669
- Soil sample compaction degradation related to grading variations. Pike, D.C., [1977.eng] 50-2321
- Sources of variability in a constant boundary temperature frost heave test. Lomas, K.J., [1981.eng] 50-2143
- Statistical analysis of Thayer Hill Road heave data. Harr, M.E., et al. [1995.eng] 50-2030
- Stress and temperature effects on silt frost heave. Marandi, S.M., et al. [1996.eng] 50-6109
- Study and application of strong tamping to prevent frost heave. Han, H.G., et al. [1989.chi] 50-1385
- Study and engineering practice of enclosed foundation of sluice. Yu, B.F., et al. [1989.chi] 50-1390
- Study of deformation properties of freezing and thawing soils for cold weather construction. Ganeles, L.B., et al. [1989.rus] 50-2252
- Study on horizontal frost heaving force of retaining wall in seasonal frozen ground region. Sui, T.L., et al. [1989.chi] 50-1365
- Study on tangential frost heaving forces on the reinforced concrete bridge pile foundation. Dai, H.M., et al. [1989.chi] 50-1362
- Tangential frost heave forces on reinforced concrete piles. Sun, Y.L., et al. [1989.chi] 50-1363
- Temperatures and stresses in frost susceptible soil around a chilled pipeline. Counts, R.J., [1991.eng] 50-70

Frost line

- Test standard and design value of normal frost heaving force. Tong, C.J., et al. [1989,chi] 50-1364
- Testing facilities—self refrigerating units. Frost cabinet temperature distribution. Hill, J., [1977,eng] 50-2314
- Thermal impact of a buried chilled gas pipeline. Raad, L., et al. [1996,eng] 50-6124
- Universal frost susceptibility test apparatus. Chamberlain, E.J., [1986,eng] 50-1974

Frost line

See [also]: Frost penetration

Frost mounds

- Calorimetric determination of permafrost water-ice phase composition. Fortier, R., et al. [1996,eng] 50-4863
- Effect of the laying of gas pipelines on the geosystem of the cryolithozone in Western Siberia. Moskalenko, N.G., [1996,rus] 50-6849
- How to make a palsa: a field experiment on permafrost formation. Seppälä, M., [1995,eng] 50-874
- Permafrost change in a palsa peatland in northern Quebec, 1983-1993. Laberge, M.J., et al. [1995,eng] 50-77
- Permafrost mounds in Lapland and Spitsbergen. Meier, K.D., [1989,ger] 50-645
- Seasonal and annual dynamics of frozen ground in the central highland of Iceland. Þórhalldóttir, T.E., [1996,eng] 50-5499
- Seasonal frost mounds of arctic beaches, Tuktoyaktuk Peninsula, Northwest Territories. Campeau, S., et al. [1995,fre] 50-4882
- Vascular flora of Pirttimysvuoma, a tundra-like area in northern Sweden. Sjörs, H., [1995,swe] 50-1530

See [also]: Hummocks; Pingos

Frost penetration

- Active layer moisture migration in Alaskan soils. Outcalt, S.I., et al. [1996,eng] 50-4631
- Alternative road construction for stormwater management in cold climates. Stenmark, C., [1995,eng] 50-2532
- Assessing frost damage in compacted clay liners. Benson, C.H., et al. [1995,eng] 50-1133
- Calculation of water transport in the LR 90 test. Onalip, A., [1977,eng] 50-2325
- Case study of insulated pavement in Jackman, Maine. Kestler, M.A., et al. [1995,eng] 50-1155
- Characteristics of the seasonal freezing of rocks in the Tien Shan. Severskii, E.V., [1996,rus] 50-6368
- Compilation of the map of seasonal frozen depth in Jilin Province at 1:2,000,000. Zhang, X., et al. [1989,chi] 50-1351
- Design guide for frost-protected shallow foundations. NAHB Research Center, [1994,eng] 50-3579
- Development of a quantitative model of frost heave. Holden, J.T., [1977,eng] 50-2322
- Development of cryogenic processes in the Baykal region. Leshchikov, F.N., [1996,rus] 50-6397
- Effect of water-table position on frost heave. Burns, J., [1977,eng] 50-2326
- Effects of the variation in position and heat flow during the frost heaving process. Jones, R.H., [1977,eng] 50-2323
- Experimental design for laboratory simulation of periglacial solifluction processes. Harris, C., et al. [1996,eng] 50-5778
- Exploration for hydrocarbon deposits and engineering preparation of oil and gas provinces. Akhmetshin, A.A., et al. [1996,rus] 50-6371
- Floating slabs for unheated buildings. Crory, F.E., [1987,eng] 50-3757
- Frost action in subgrade soils—a field/laboratory study. Hoffman, G.L., [1979,eng] 50-4616
- Frost action in subgrades of roads and airfields. Pufahl, D.E., [1996,eng] 50-6188
- Frost heave along banks of canals. Zhu, Q., et al. [1989,chi] 50-1361
- Frost heave studies by natural freezing. Stenberg, L., [1981,eng] 50-2145
- Frost heave susceptibility in Transbaikalia. Sal'nikov, P.I., [1996,rus] 50-6399
- Frost heave susceptibility of hydraulic structure subgrade soils. Xie, Y.Q., et al. [1989,chi] 50-1391
- Full depth testing of frost susceptible soils. Final report. Rice, D.C., [1982,eng] 50-1689
- Heat transfer and frost-thaw penetration in soil surrounding an inclusion of sand. Peck, L., et al. [1995,eng] 50-726
- Ice formation and structure in various freezing soils. Wang, J.C., et al. [1995,eng] 50-4515
- Mathematical model and the Takashi model of soil freezing. Nakano, Y., [1996,eng] 50-6485
- Mathematical model to correlate frost heave of pavements with laboratory predictions. Final report. Berg, R.L., et al. [1996,eng] 50-3333
- Modelling of permafrost depth in France during the last 120,000 years. Lebre, P., et al. [1996,fre] 50-4570
- Moisture-based model for calculating daily changes in seasonal soil frost depth. Ryerson, C.C., [1979,eng] 50-3713
- New concept in studying and forecasting frost heave. Nevecheva, V.L., [1996,rus] 50-6398
- On the estimation of frost loads. Rajani, B., et al. [1996,eng] 50-6751
- Performance of landfill cover systems in cold climates. Lee, J.Y., [1994,eng] 50-371
- Pore-water pressures in freezing and thawing fine-grained soils. Eigenbrod, K.D., et al. [1996,eng] 50-4756
- Predicting the level of frost penetration into landfill covers. Moo-Young, H.K., Jr., et al. [1996,eng] 50-6169

- Prediction of frost penetration beneath West Virginia pavements. Moulton, L.K., [1968,eng] 50-4549
- Predictive model of frost heave and thaw weakening. Guymon, G.L., et al. [1985,eng] 50-2310
- Problem of primary frost heave with frost penetration. Ding, Z.Z., [1995,eng] 50-2162
- Proceedings. Seminar on the Prediction of Frost Heave. Nottingham, England, Apr. 9, 1981. [1981,eng] 50-2135
- Protecting water meters from freezing. Kotry, J., [1992,eng] 50-3559

- River discharge and soil freezing depth during winter in Heilongjiang. Liu, F.S., [1989,chi] 50-1352
- Seasonal freezing and soil erosion during snowmelt. Demidov, V.V., et al. [1995,eng] 50-2714
- Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-2461
- Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-3129
- Stress and temperature effects on silt frost heave. Marandi, S.M., et al. [1996,eng] 50-6109
- Thermal impact of a buried chilled gas pipeline. Raad, L., et al. [1996,eng] 50-6124
- Thermal insulating geosynthetics as a soil protective cover substitute. Deutsch, W.L., Jr., [1995,eng] 50-2866
- Thermal protection of concrete dams subject to freeze-thaw cycles. Léger, P., et al. [1995,eng] 50-576
- Time series in geocryology. Mel'nikov, V.P., et al. [1992,rus] 50-134
- Universal frost susceptibility test apparatus. Chamberlain, E.J., [1986,eng] 50-1974

See [also]: Thaw depth

Frost protection

- Amine freezing point depressant for soil stabilization. Hemstreet, D.A., et al. [1996,eng] 50-6144
- Anti-frost behaviour of concrete lined canal with different structures. Song, B.Q., et al. [1989,chi] 50-1387
- Antifreezes and frost resistance of concrete at early ages. Hama, Y., et al. [1995,eng] 50-2682
- Asphalt pavements in permafrost on the Qinghai-Xizang Highway. Li, N.Y., et al. [1996,eng] 50-6178
- Assessment of frost damage of concrete and its repair technique. Tsukinaga, Y., et al. [1995,eng] 50-2673
- Basic properties of expansive admixture with anti-freezing admixture in a grout. Nakamura, H., et al. [1995,eng] 50-2643
- Calculating method of frost heaving reaction in seasonal frozen ground region. Zhou, Y.C., [1989,chi] 50-1366
- Case study of insulated pavement in Jackman, Maine. Kestler, M.A., et al. [1995,eng] 50-1155
- Cold regions infrastructure: an international imperative for the 21st century. International Conference on Cold Regions Engineering, 8th, Fairbanks, AK, Aug. 12-16, 1996. [1996,eng] 50-6106
- Cold regions utilities monograph. Third edition. Smith, D.W., ed. et al. [1996,eng] 50-6424
- Concrete under severe conditions: environment and loading. Sakai, K., ed. et al. [1995,eng] 50-2618
- Control of epiphytic ice nucleation-active bacteria for management of plant frost injury. Lindow, S.E., [1995,eng] 50-3283
- Cracking of asphalt pavement and its prevention. Tian, D.T., et al. [1989,chi] 50-1394
- Critical height of asphalt-paved highway embankments in permafrost. Zhu, L.N., et al. [1989,chi] 50-1393
- Critical height of road embankments in permafrost. An, W.D., et al. [1989,chi] 50-1375
- Development of high-range antifreezing, water-reducing agent. Saitoh, K., et al. [1995,eng] 50-2645
- Durability of concrete in cold climates. Pigeon, M., et al. [1995,eng] 50-919
- Durable concrete for northern environments. Gerwick, B.C., Jr., [1996,eng] 50-5950
- Effect of pumping on entrained air voids: role of pressure. Jansen, D.J., et al. [1995,eng] 50-2636
- Effectiveness of coatings on concrete under freezing and thawing conditions. Sato, T., et al. [1995,eng] 50-2669
- Environmental-induced longitudinal cracking in cold regions pavements. Scher, R.L., [1996,eng] 50-6181
- Evaluating the applicability of frost resistant pavements. Ninomiya, H., et al. [1995,jpn] 50-6803
- Evaluation of geocomposite edge drain on sand subgrade. Raymond, G.P., et al. [1996,eng] 50-5662
- Evaluation of reducing method of total heave amounts using soil-cement mixtures. Fukuda, M., et al. [1992,eng] 50-25
- Experimental pavement for road freezing countermeasures in Sapporo City. Katayama, K., et al. [1995,jpn] 50-6804
- Experiments of shallow-buried water supply pipes. Meng, F.J., [1989,chi] 50-1386
- Field observations of instrumented highway sections with different frost protections. Konrad, J.M., et al. [1996,eng] 50-6161
- Field-tested model for freeze protection of multiphase pipelines in arctic operations. Eager, K., [1991,eng] 50-1769
- Fine-grained slag sand and fly ash concrete with higher frost resistance and waterproofness. Pavlenko, S.I., et al. [1992,eng] 50-2758
- Floating slabs for unheated buildings. Crory, F.E., [1987,eng] 50-3757
- Forecasting earth surface temperature for the optimal application of frost protection methods. Krasovitski, B., et al. [1996,eng] 50-5021

- Freeze protection of Florida citrus with microsprinkler irrigation. Parsons, L.R., et al. [1995,eng] 50-3074
- Freeze-thaw durability of concrete cured below 0°C using anti-freeze admixtures. Mason, M.R., et al. [1996,eng] 50-6122
- Frost damage proofed pile. Takeda, T., et al. [1989,eng] 50-2243
- Frost durability of high strength concretes. Kukko, H., et al. [1995,fin] 50-1158
- Frost heave and frost heave force of large U-shaped and concrete lined canals. Li, A.G., [1989,chi] 50-1389
- Frost heaving force of heated buildings. Liu, H.X., [1989,chi] 50-1382
- Frost heaving of forest tree seedlings: a review. Goulet, F., [1995,eng] 50-6520
- Frost resistance of concrete with and without silica fume. Zhou, Y.X., [1994,eng] 50-374
- Frost resistance of surface layer of concrete with permeable sheet. Sugawara, T., et al. [1995,eng] 50-2656
- Frost resistance of surface-coated concrete. Takahashi, J., et al. [1994,jpn] 50-2834
- Frost-resistant autoclaved lightweight concrete. Hama, Y., et al. [1993,jpn] 50-3484
- Heaters for oil pipelines. [1991,eng] 50-4380
- High-strength concrete for low temperature environment by using silica fume. Amaya, T., et al. [1995,eng] 50-2649
- Improvement of surface layer strength of concrete by using a special curing sheet. Sugawara, T., et al. [1992,eng] 50-2760
- Influence of heating on the frozen depth of building foundation. Hong, Y.P., et al. [1989,chi] 50-1383
- Insects in deep freeze. Barnes-Svarney, P., [1992,eng] 50-3035
- Insulating structure. Ericsson, B., [1989,eng] 50-2340
- Investigation and repair of a terra cotta dome in a cold climate. Ogle, R., et al. [1995,eng] 50-1978
- Long-term evaluations of insulated roads and airfields in Alaska. Esch, D.C., [1995,eng] 50-1156
- Low-temperature period countermeasures during concrete jacking of the Satsunagawa Dam. Yasunaka, S., et al. [1995,jpn] 50-6737
- Management of winter soil temperatures to control streambank erosion. Bohn, C., [1989,eng] 50-2464
- Material properties, specifications and testing for pavements in cold regions. Chamberlain, E.J., et al. [1996,eng] 50-6195
- Method for determining the thickness of insulation layer of foundation. Ding, D.W., et al. Lanzhou Institute of Glaciology and Geocryology. Ministry of Railways, Northwest Institute. Heilongjiang Provincial Institute of Water Conservancy. Working Group for Thermal Insulation of Foundations. [1989,chi] 50-1374
- Microsprinkler irrigation for freeze protection of young citrus trees. Davies, F.S., [1995,eng] 50-3075
- Minimum depth for building foundations subject to frost heave. Jiang, H.J., et al. [1989,chi] 50-1381
- Minimum thermal protection for cold weather masonry. Korhonen, C.J., et al. [1996,eng] 50-6118
- Mix design of air-entrained, high-performance concrete. Lessard, M., et al. [1995,eng] 50-2670
- Modeling frost heave of roads with a geotextile layer. Konrad, J.M., et al. [1996,eng] 50-5663
- Open graded base to reduce thaw weakening in flexible pavements. Kestler, M.A., [1996,eng] 50-6179
- Pavement design applying allowable frost heave. Saarelainen, S., [1996,eng] 50-6180
- Pavement distress caused by deep heave in Anchorage, Alaska. Tari, R.G., Jr., et al. [1996,eng] 50-6183
- Performance of landfill cover systems in cold climates. Lee, J.Y., [1994,eng] 50-371
- Pitorifices and small pumps in cold region water distribution systems. Mauser, M.W., [1995,eng] 50-5667
- Portable shelter to protect bridges under construction from snow and cold. Kobayashi, Y., et al. [1992,jpn] 50-3134
- Preventing frost damage to irrigation canals by geotextile. Chen, L., et al. [1996,eng] 50-6167
- Prevention of frost damage to enclosure walls. Wang, G.S., [1989,chi] 50-1384
- Proceedings. Chinese National Conference on Permafrost. 3rd. Harbin, China, Aug. 19-24, 1986. [1989,chi] 50-1340
- Protecting water meters from freezing. Kotry, J., [1992,eng] 50-3559
- Repair measures for deteriorated abutments and piers due to frost damage. Tsutsumi, Y., et al. [1995,eng] 50-2659
- Research program for reducing frost heave with geosynthetic capillary barriers. Henry, K.S., et al. [1996,eng] 50-6129
- Restoration of Kakabeka Falls, Ontario, Canada. Grieve, R.G., et al. [1992,eng] 50-2763
- Roads and airfields in cold regions. Vinson, T.S., ed. et al. [1996,eng] 50-6185
- Roller compacted concrete for a cold region dam. Yasunaka, S., et al. [1995,eng] 50-2679
- Simulation of foam protection of plants against frost. Krasovitski, B., et al. [1995,eng] 50-961
- Sliding of the slope of railway embankment in permafrost region and its treatment. Wang, W.B., [1989,chi] 50-1395
- Strength development of setting accelerated concrete under low temperature environment. Anazawa, M., et al. [1995,eng] 50-2644
- Stress and temperature effects on silt frost heave. Marandi, S.M., et al. [1996,eng] 50-6109
- Study and application of strong tamping to prevent frost heave. Han, H.G., et al. [1989,chi] 50-1385

Frost resistance

- Study and engineering practice of enclosed foundation of sluice. Yu, B.F., et al. [1989,chi] 50-1390
- Study on methods to restore the performance of drainable pavements. Abe, A., et al. [1995,jpn] 50-6802
- Tangential frost heave forces on reinforced concrete piles. Sun, Y.L., et al. [1989,chi] 50-1363
- Temperature influence on concrete structures and its hardening. Krylov, B.A., et al. [1995,eng] 50-2668
- Tests of asphalt pavements with improved drainage in cold regions. Toya, K., et al. [1995,jpn] 50-6801
- Thermal insulating geosynthetics as a soil protective cover substitute. Deutsch, W.L., Jr., [1995,eng] 50-2866
- Thermal protection of concrete dams subject to freeze-thaw cycles. Léger, P., et al. [1995,eng] 50-576
- Tree-clip development in microirrigation allows easy frost and freeze protection. Thayer, S.S., [1995,eng] 50-3076
- Use of alternative materials in pavement frost protection. Doré, G., et al. [1995,eng] 50-1157
- Use of geosynthetics in road and airfield construction in cold regions. Kinney, T.C., [1996,eng] 50-6194
- Using district heating pipes for freeze protection of sewer pipes. Reeve, H.E., et al. [1996,eng] 50-6440
- Using reed beds for winter operation of wetland treatment system for wastewater. Yin, H., et al. [1995,eng] 50-6067
- Frost resistance**
- Antifreeze proteins in winter rye are similar to pathogenesis-related proteins. Hon, W.C., et al. [1995,eng] 50-2853
- Antifreezes and frost resistance of concrete at early ages. Hama, Y., et al. [1995,eng] 50-2682
- Asphalt pavements in permafrost on the Qinghai-Xizang Highway. Li, N.Y., et al. [1996,eng] 50-6178
- Assessing freezing and thawing resistance of concrete. El-Korchi, T., et al. [1995,eng] 50-2619
- Calculating method of frost heaving reaction in seasonal frozen ground region. Zhou, Y.C., [1989,chi] 50-1366
- Carbon fiber-reinforced concrete. Chen, P.W., [1994,eng] 50-685
- Case study of insulated pavement in Jackman, Maine. Kestler, M.A., et al. [1995,eng] 50-1155
- Cement type and freeze-thaw resistance of concrete. Stark, J., et al. [1995,eng] 50-2637
- Characterization of mortars as surface repair materials. Mirza, J., [1992,eng] 50-2759
- Chlorophyll fluorescence as measure of Douglas fir cold hardiness. Fisker, S.E., et al. [1995,eng] 50-1287
- Chlorophyll fluorescence as spruce frost hardiness indicator. Binder, W.D., et al. [1996,eng] 50-6519
- Cold acclimation of *Arabidopsis thaliana*. Uemura, M., et al. [1995,eng] 50-1462
- Cold acclimation of rye leaves during freeze/thaw cycles. Uemura, M., et al. [1995,eng] 50-3343
- Cold acclimatization biochemistry of rapeseed tissues. Smoleńska-Sym, G., et al. [1996,eng] 50-5463
- Cold resistance mechanisms in high desert Andean plants. Squeo, F.A., et al. [1996,eng] 50-5774
- Cold tolerance in tropical alpine plants. Beck, E., [1994,eng] 50-3048
- Concepts for frost design for upgraded runway at CONUS Base 18. Johnson, T.C., [1984,eng] 50-2308
- Concrete scaling from deicing salts. Johnston, C.D., [1995,eng] 50-2641
- Concrete surface scaling during freeze thaw tests. Kaufmann, J., et al. [1995,eng] 50-2621
- Concrete under severe conditions: environment and loading. Sakai, K., ed. [1995,eng] 50-2618
- Creep, shrinkage, frost, and sulphate resistance of high strength concrete. Ghosh, S., et al. [1995,eng] 50-577
- Deep supercooling in buds of woody plants. Quamme, H.A., [1995,eng] 50-3280
- Deep supercooling in woody plants and the role of cell wall structure. Wisniewski, M., [1995,eng] 50-3279
- Determining frost heave resistance of pile foundations. Orzechovskii, I.U.R., et al. [1992,eng] 50-38
- Development of methods for assessing the frost resistance of clay bricks. Silvennoinen, K., et al. [1995,eng] 50-951
- Discovery of bacterial ice nucleation and its role in the injury of plants by frost. Upper, C.D., et al. [1995,eng] 50-3272
- Discussion of paper by Aavik and Chandra. Mather, B., et al. [1995,eng] 50-4501
- Durability issues of FRP composites in offshore structures. Dutta, P.K., [1995,eng] 50-217
- Durability of cementitious mortars containing silica fume. Quaresima, R., et al. [1995,eng] 50-2630
- Durability of concrete in cold climates. Pigeon, M., et al. [1995,eng] 50-919
- Durability of microfiber-reinforced mortars. Pigeon, M., et al. [1996,eng] 50-4736
- Dynamic modulus of elasticity and durability of no-fines concrete. Tamai, M., et al. [1995,eng] 50-2683
- Early biochemical changes during acclimation of poplar to low temperature. Jouve, L., et al. [1995,eng] 50-3453
- Earthquake shock absorbers for bridges in cold regions. Sato, M., et al. [1993,jpn] 50-2839
- Effect of de-icing salts on frost damage of high-strength concrete. Miura, T., et al. [1995,eng] 50-2639
- Effect of fines content on frost heave. Tester, R.E., et al. [1996,eng] 50-6752
- Effect of pumping on entrained air voids: role of pressure. Jansen, D.J., et al. [1995,eng] 50-2636
- Effectiveness of coatings on concrete under freezing and thawing conditions. Sato, T., et al. [1995,eng] 50-2669

- Effects of climatic change on onset of growth and risk of frost damage in Scots pine. Hänninen, H., [1994,eng] 50-3208
- Effects of long-term elevation in air temperature and CO₂ concentration on frost hardness of Scots pine. Repo, T., [1994,eng] 50-3213
- Effects of plant cellular tissue structure on freezing tolerance. Fujikawa, S., et al. [1996,eng] 50-5675
- Effects of smelter emissions on pine tree frost hardness. Suinen, M.L., et al. [1996,eng] 50-4309
- Environmental biology of a tropical treeline species, *Polylepis sericea*. Goldstein, G., et al. [1994,eng] 50-3050
- Evaluating the applicability of frost resistant pavements. Ninomiya, H., et al. [1995,jpn] 50-6803
- Evaluation of reducing method of total heave amounts using soil-cement mixtures. Fukuda, M., et al. [1992,eng] 50-25
- Evaluation of the precision of freeze thaw and deicing salt testing by the CDF procedure. Setzer, M.J., et al. [1995,eng] 50-2622
- Experimental pavement for road freezing countermeasures in Sapporo City. Katayama, K., et al. [1995,jpn] 50-6804
- Fine-grained slag sand and fly ash concrete with higher frost resistance and waterproofness. Pavlenko, S.I., et al. [1992,eng] 50-2758
- Floating slabs for unheated buildings. Crory, F.E., [1987,eng] 50-3757
- Forecasting service life of frost-penetrated concrete. Fagerlund, G., [1996,eng] 50-4788
- Freezable water in portland cement paste. Gress, D.L., et al. [1995,eng] 50-2631
- Freeze-thaw and deicing salt resistance of concrete—basic research and testing. Setzer, M.J., [1995,eng] 50-2620
- Freeze-thaw durability of concrete cured below 0°C using antifreeze admixtures. Mason, M.R., et al. [1996,eng] 50-6122
- Freeze-thaw durability of lightweight aggregate concretes. Roberts, J.M., [1995,eng] 50-2626
- Freezing and thawing of lightweight concrete. Hoff, G.C., [1995,eng] 50-2625
- Freezing and thawing of non-air-entrained and air-entrained concrete. Li, Y., et al. [1994,eng] 50-2768
- Freezing and thawing resistance of concrete pavers saturated in de-icing chemicals. Ghafouri, N., et al. [1995,eng] 50-2638
- Freezing point depression of water in concrete aggregates. Salcedo, M.A., et al. [1995,eng] 50-2634
- Freezing resistance in the stem pith of cabbage. Manley, R.C., [1994,eng] 50-474
- Freezing tolerance in plants: an overview. Chen, T.H.H., et al. [1995,eng] 50-3277
- Frost action in subgrade soils—a field/laboratory study. Hoffman, G.L., [1979,eng] 50-4616
- Frost action in subgrades of roads and airfields. Pufahl, D.E., [1996,eng] 50-6188
- Frost and deicing salt resistance of concrete pavements. Setzer, M.J., et al. [1994,ger] 50-2797
- Frost damage of concrete structures in Hokkaido. Yamashita, H., et al. [1995,eng] 50-2662
- Frost damage to northern trees during climatic warming. Hänninen, H., [1996,eng] 50-6631
- Frost durability of concrete containing viscosity-modifying admixtures. Khayar, K.H., [1995,eng] 50-4500
- Frost durability of high flowing concrete using fine mineral powders. Khanzadi, M., et al. [1995,eng] 50-2629
- Frost durability of high strength concrete: effect of internal cracking on ice formation. Jacobsen, S., et al. [1996,eng] 50-6097
- Frost durability of high strength concretes. Kukko, H., et al. [1995,fin] 50-1158
- Frost durability of high-performance concrete. Marchand, J., et al. [1995,eng] 50-2640
- Frost effects on high strength concrete without air entrainment. Kukko, H., [1995,eng] 50-2627
- Frost hardness of 16 European provenances of sessile oak growing in Scotland. Deans, J.D., et al. [1996,eng] 50-4329
- Frost heave prediction in the Netherlands. Post, H.J., [1981,eng] 50-2140
- Frost heave research at the University of Nottingham. Jones, R.H., [1977,eng] 50-2312
- Frost heave susceptibility of hydraulic structure subgrade soils. Xie, Y.Q., et al. [1989,chi] 50-1391
- Frost resistance and freezable water in high strength concrete. Nili, M., et al. [1995,eng] 50-2632
- Frost resistance of artificially deacclimated pine needles. Taulavuori, K., et al. [1996,eng] 50-4151
- Frost resistance of concrete canals in Turkey. Tosun, H., [1995,eng] 50-2665
- Frost resistance of concrete with and without silica fume. Zhou, Y.X., [1994,eng] 50-374
- Frost resistance of high-performance concrete. Follard, K.J., [1995,eng] 50-4172
- Frost resistance of marine concrete in a cold environment. Ayuta, K., et al. [1995,eng] 50-2663
- Frost resistance of roller-compacted high-volume fly ash concrete. Pigeon, M., et al. [1995,eng] 50-1466
- Frost resistance of surface layer of concrete with permeable sheet. Sugawara, T., et al. [1995,eng] 50-2656
- Frost resistance of surface-coated concrete. Takahashi, J., et al. [1994,jpn] 50-2834
- Frost resistance, photosynthesis and respiration in cells and chloroplasts under cold hardening. Klimov, S.V., et al. [1994,rus] 50-4201
- Frost-resistant autoclaved lightweight concrete. Hama, Y., et al. [1993,jpn] 50-3484

- Full depth testing of frost susceptible soils. Final report. Rice, D.C., [1982,eng] 50-1689
- Full depth testing of frost susceptible soils. Rice, D.C., [1974,eng] 50-4401
- Handwarmers benefit young citrus trees during freezes. Parsons, L.R., et al. [1995,eng] 50-872
- Heaving pressures and frost heave. Kettle, R.J., [1977,eng] 50-2324
- High performance slag ash concrete. Pavlenko, S.I., [1995,eng] 50-2680
- High-performance concrete incorporating large volumes of ASTM Class F fly ash. Bilodeau, A., et al. [1994,eng] 50-2765
- High-strength concrete containing silica fume. Torii, K., et al. [1994,eng] 50-2767
- Ice propagation in concrete. Wang, K., et al. [1995,eng] 50-2633
- Improvement of surface layer strength of concrete by using a special curing sheet. Sugawara, T., et al. [1992,eng] 50-2760
- Indirect assessment of frost susceptibility. Hurt, K.G., [1977,eng] 50-2327
- Influence of the properties of porous media on the durability of frozen calcareous rocks. Bellanger, M., et al. [1992,eng] 50-4862
- Insects and freezing. Block, W., [1995,eng] 50-4087
- Long-term evaluations of insulated roads and airfields in Alaska. Esch, D.C., [1995,eng] 50-1156
- Low temperature cracking and rutting in asphalt concrete pavements. Vinson, T.S., et al. [1996,eng] 50-6192
- Low-temperature and freeze-thaw durability of thick composites. Dutta, P.K., et al. [1996,eng] 50-5659
- Material properties, specifications and testing for pavements in cold regions. Chamberlain, E.J., et al. [1996,eng] 50-6195
- Means of testing porous materials for frost resistance. Shapranov, V.M., [1992,rus] 50-1918
- Microscopy of xylem ray supercooling wood tissues response to freezing stress. Ristic, Z., et al. [1995,eng] 50-3341
- Microsprinkler irrigation for freeze protection of young citrus trees. Davies, F.S., [1995,eng] 50-3075
- Microstructure durability of concretes exposed to arctic conditions. Sarkar, S.L., et al. [1995,eng] 50-2664
- Mix design of air-entrained, high-performance concrete. Lessard, M., et al. [1995,eng] 50-2670
- Moisture uptake and service life of concrete exposed to frost. Fagerlund, G., [1995,eng] 50-2635
- Mutual influence of ice heave and interlayer swelling in clay rocks. Final report (draft). Czarda, K.A., et al. [1986,eng] 50-1690
- Pavement distress caused by deep heave in Anchorage, Alaska. Tart, R.G., Jr., et al. [1996,eng] 50-6183
- Performance of high-early strength concrete under freeze-thaw conditions. Hossain, M., et al. [1995,eng] 50-2628
- Performance of landfill cover systems in cold climates. Lee, J.Y., [1994,eng] 50-371
- Perspectives of plant cold tolerance: physiology and molecular responses. Kaye, C., et al. [1995,eng] 50-4085
- Physiological and genetical adaptation of forest trees to climatic changes. Beuker, E., et al. [1994,eng] 50-3205
- Phyto-recultivation of technologically disturbed lands. Valceva, E.I., [1994,rus] 50-293
- Plant tissue protein associated with pine tree frost hardiness. Ekramoddoullah, A.K.M., et al. [1995,eng] 50-1088
- Pore size effects on road subgrade frost susceptibility. Wood, L.E., et al. [1982,eng] 50-2028
- Potential climatic change effects on western Canadian forests. Burton, P.J., et al. [1995,eng] 50-769
- Predicting brick frost resistance. II. Robinson, G.C., et al. [1995,eng] 50-1961
- Predicting brick frost-resistance. I. Robinson, G.C., et al. [1995,eng] 50-1109
- Proceedings. ACI International Conference on Evaluation and Rehabilitation of Concrete Structures and Innovations in Design. Hong Kong, Dec. 2-6, 1991. [1992,eng] 50-2752
- Proceedings. Colloquium on Frost Heave Testing and Research. Nottingham, England, May 18, 1977. [1977,eng] 50-2311
- Radiation frost susceptibility and the association between sky exposure and leaf size. Jordan, D.N., et al. [1995,eng] 50-2132
- Rapid freeze/thaw testing of concrete—pore structure changes by cracking and healing. Jacobsen, S., et al. [1995,eng] 50-2624
- Rapid hardening additive of chloride-free under low temperature environments. Ashida, M., et al. [1995,eng] 50-2642
- Raw material mixture for constructing roadbeds. Il'inskiy, B.P., et al. [1992,rus] 50-1913
- Raw mixture for preparing concrete. Nikonova, N.S., et al. [1992,rus] 50-1946
- Recommendations for concrete slab freeze-thaw testing. Réunion Internationale des Laboratoires d'Essais et de Recherches sur les Matériaux et les Constructions. [1995,eng] 50-1085
- Relationship between water content and frost tolerance in shoots of hardwood seedlings. Calmé, S., et al. [1996,eng] 50-3296
- Restoration of Kakabeka Falls, Ontario, Canada. Grieve, R.G., et al. [1992,eng] 50-2763
- Roads and airfields in cold regions. Vinson, T.S., ed. et al. [1996,eng] 50-6185
- Roller compacted concrete for a cold region dam. Yasunaka, S., et al. [1995,eng] 50-2679

Frost riving

- Seasonal changes in photosystem II organisation and pigment composition in *Pinus sylvestris*. Ottander, C., et al. [1995,eng] 50-1130
- Seasonal variations in frost tolerance and sugar content of two *Plagiomnium* species. Rütten, D., et al. [1993,eng] 50-6524
- Second-order dynamic model for the frost hardness of trees. Leinonen, I., et al. [1995,eng] 50-1146
- Self healing of high strength concrete after deterioration by freeze/thaw. Jacobsen, S., et al. [1996,eng] 50-3725
- Soil frost heave and bearing tests. Lausanne, Switzerland. Federal Institute of Technology. Laboratory of Soil Mechanics. (École Polytechnique Fédérale de Lausanne. Laboratoire de mécanique des sols) (Eidgenössische Technische Hochschule). [1988,fr] 50-1669
- Soil sample compaction degradation related to grading variations. Pike, D.C., [1977,eng] 50-2321
- Some behaviour of frost resistance of water permeable concrete. Tokushige, H., et al. [1995,eng] 50-2681
- Special light weight concrete—resistance to rebar corrosion and salt/frost scaling. Havdahl, J., et al. [1995,eng] 50-2658
- Statistical analysis of freezing tolerance indices from plant electrolyte variations. Anisko, T., et al. [1995,eng] 50-3612
- Strength development of setting accelerated concrete under low temperature environment. Anazawa, M., et al. [1995,eng] 50-2644
- Stress and temperature effects on silt frost heave. Marandi, S.M., et al. [1996,eng] 50-6109
- Studies of methods to assess the quality of the surface layer of concrete. Tsukinaga, Y., et al. [1992,eng] 50-2761
- Studies of shotcrete using ultra rapid hardening cement, steel fiber, and silica fume. Masuda, Y., et al. [1992,eng] 50-2756
- Superplasticizer dosage effects on concrete frost resistance. Gagné, R., et al. [1996,eng] 50-5922
- Swedish forest production losses due to summer frost. Verwijst, T., et al. [1996,eng] 50-6753
- Tangential frost heave forces on reinforced concrete piles. Sun, Y.L., et al. [1989,chi] 50-1363
- Temperatures and stresses in frost susceptible soil around a chilled pipeline. Coutts, R.J., [1991,eng] 50-70
- Tensile adfreezing strength between frozen soil and foundation. Ding, J.K., et al. [1989,chi] 50-1370
- Testing methods and frost resistance standardization of concrete. Ivanov, F.M., [1995,eng] 50-2623
- Turnover and conservation of nutrients in the pachycaul *Senecio keniodendron*. Beck, E., [1994,eng] 50-3054
- Use of a new glass-fiber rod as reinforcement for concrete structures. Chaillat, O., et al. [1992,eng] 50-2757
- Use of alternative materials in pavement frost protection. Doré, G., et al. [1995,eng] 50-1157
- Water in lichens at subzero temperatures. Schroeter, B., et al. [1995,eng] 50-2842
- Wear resistance of concrete under low temperature. Horiguchi, T., [1995,eng] 50-2657
- Willow leaf wax variations in relation to cold survival. Hietala, T., et al. [1995,eng] 50-1649
- Winter injury and developmental cold tolerance of red spruce. DeHayes, D.H., [1992,eng] 50-4057
- Frost riving**
See [also]: Frost shattering
- Frost shattering**
European soil thermal contraction related to ice sheet dynamics. van Vliet-Lanoë, B., [1996,fr] 50-6340
- Freeze-thaw weathering: the cold region "panacea". Hall, K., [1995,eng] 50-4697
- Limestone karst morphology in the Himalayas of Nepal and Tibet. Waltham, A.C., [1996,eng] 50-4875
- Paleoecological implications of frost-shattered sediments on the Norwegian coast. Blikra, L.H., et al. [1995,eng] 50-2167
- Pleistocene glaciation of the Outer Hebrides, Scotland. Ballantyne, C.K., et al. [1995,eng] 50-6212
- Regularities in the formation of a pattern of a frost shattering system. Zimov, S.A., [1990,eng] 50-1610
- Restoration of Kakabeka Falls, Ontario, Canada. Grieve, R.G., et al. [1992,eng] 50-2763
- Rock breakdown during spring thaw in Spitsbergen. Ødegård, R.S., et al. [1995,eng] 50-4831
- Study of cryoseisms ("frostquakes") in the Sebago Lake region. Maine. Allen, R.P., [1993,eng] 50-5518
- Weathering processes in marbles from Independence and Patriot Hills. Yoshikawa, K., et al. [1995,eng] 50-4383
- Frost weathering**
Alteration of C-S-H and ASR gels in deteriorated concretes. Newfoundland, Canada. Katayama, T., et al. [1995,eng] 50-2676
- Deterioration in concrete bridges at the seashore in cold regions. Shoya, M., et al. [1992,eng] 50-2754
- Freeze-thaw weathering: the cold region "panacea". Hall, K., [1995,eng] 50-4697
- Genetic and ecological significance of alpine debris mulch soils. Liu, C.D., [1992,chi] 50-1493
- Mapping of soil groups on Germania Peninsula in Spitsbergen. Eberle, J., et al. [1994,ger] 50-1592
- Mechanism of deterioration of concrete under severe environment. Podval'nyi, A.M., [1995,eng] 50-2686
- Pavement repairs with metallic glass fiber reinforced concrete. Granju, J.L., et al. [1992,eng] 50-2755
- Penglacial denudation in the Richardson Mountains. Fried, G., et al. [1993,eng] 50-1675
- Penglacial phenomena found in Mount Xixia Bangma region. Zheng, B.X., et al. [1982,chi] 50-6607

- Rock breakdown during spring thaw in Spitsbergen. Ødegård, R.S., et al. [1995,eng] 50-4831
- Soil development on a glacier foreland, Kerguelen Is. Frenot, Y., et al. [1995,eng] 50-71
- Studies of methods to assess the quality of the surface layer of concrete. Tsukinaga, Y., et al. [1992,eng] 50-2761
- Study on soil erosion in Inner Mongolia. Zhao, Y., et al. [1989,chi] 50-3269
- Weathering processes in marbles from Independence and Patriot Hills. Yoshikawa, K., et al. [1995,eng] 50-4383
- Frostbite**
Vitamin C in the prevention and treatment of frostbite. Purkayastha, S.S., et al. [1992,eng] 50-4224
- Frozen fines**
Freezing and cryogenic heave of finely dispersed soil. Buldovich, S.N., [1996,eng] 50-6815
- II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973, [1973,rus] 50-5139
- Frozen ground**
Automated measuring system ASI-500-1 for studying the properties of frozen ground. Ivanov, A.I., et al. [1983,rus] 50-318
- Carbon in boreal coniferous forest soil. Westman, C.J., et al. [1994,eng] 50-3203
- Developing methods for forecasting seismic effects under cryolithozone conditions. Dzhrurik, V.I., et al. [1996,rus] 50-6834
- Diagnostics of solonchaks: a class of salt-rich soils. Pankova, E.I., et al. [1995,eng] 50-3874
- Ecological monitoring of territories with oil and gas reserves in the cryolithozone. Antonov-Druzhinin, V.P., et al. [1990,rus] 50-1605
- Effect of climate change on erosion and nutrient transport from arable land. Kallio, K., et al. [1994,eng] 50-3196
- Effective permittivity microwave model for wet and frozen soils. Boiarukii, D.A., et al. [1995,eng] 50-4215
- Engineering-geocryological problems in Transbaikalia: collected scientific papers. Shesternev, D.M., ed. [1993,rus] 50-107
- Estimation of climate change effect on the runoff: catchment-scale application of SOIL-model. Roos, J., et al. [1994,eng] 50-3194
- Evaluating the stability of natural complexes in tundra under technogenic disturbances. Demanov, V.E., et al. [1994,rus] 50-259
- Forecasting seismic effects under cryolithozone conditions. Dzhrurik, V.I., [1995,rus] 50-2506
- Geophysical investigations of cryolithozone. Scientific papers. Frolov, A.D., ed. [1995,rus] 50-2502
- Method for making short piles with an expanded pivot under winter conditions. Shishkov, I.U., [1995,rus] 50-725
- Method of excavating in frozen ground. Mukhametdinov, Kh.K., et al. [1992,rus] 50-1944
- Modeling the effects of climatic change on phosphorus transport from a drainage basin. Bileletdin, A., et al. [1994,eng] 50-3199
- Paleogeographical conditions of the degradation of Pleistocene frozen ground. Astakhov, V.I., [1990,rus] 50-1624
- Phase composition of moisture in saline frozen ground. Motenko, R.G., et al. [1996,rus] 50-6837
- Proceedings of the First Conference of Russian Geocryologists. June 3-5, 1996, Moscow, Vol.1. Konferentsia geokriologov Rossi, 1st, Moscow State University, June 3-5, 1996, [1996,rus] 50-6349
- Radiocarbon dating evidence for mammoths on Wrangel Island, Arctic Ocean, until 2000 BC. Vartanian, S.L., et al. [1995,eng] 50-649
- Regularities in the formation of a pattern of a frost shattering system. Zimov, S.A., [1990,rus] 50-1610
- SAR interferometric signatures of forest. Wegmüller, U., et al. [1995,eng] 50-981
- Sensible heat flux measurements near a cold surface. Yen, Y.-C., [1995,eng] 50-879
- Soils in frozen regions of the biosphere, their function and use. Makeev, O.V., [1990,rus] 50-21
- Sounding to determine the thermophysical properties of frozen ground and bedrock. Gavril'ev, R.I., [1993,rus] 50-124
- State and salinity of soils in the littoral sections of the Kara Sea. Dubikov, G.I., et al. [1996,rus] 50-6376
- Tunnel completed under Storebælt Strait. Wallis, S., [1995,eng] 50-143
- Working element of a tool with lifting-percussion action. Glebov, V.D., et al. [1992,rus] 50-1915
- See [also]: Geocryology; Soil freezing
- Frozen ground chemistry**
Chemical weathering in high arctic soils, Spitsbergen. Blümel, W.D., et al. [1994,ger] 50-1593
- Corrosion of pipeline steels in permafrost. White, W.E., et al. [1996,eng] 50-5954
- Distinguishing features of the phase transformations in saline frozen soils. Frolov, A.D., [1996,eng] 50-6481
- Drilling wastes management for Alaska's North Slope. Fristoe, B.R., [1991,eng] 50-1723
- Effect of saline frozen ground on radio wave propagation in arctic shore regions. Frolov, A.D., et al. [1995,eng] 50-202
- Frost characteristic of saline soil and its effect on canals. Feng, T., [1989,chi] 50-1388
- Ice wedge formation in northern Asia during the Holocene. Vasil'chuk, I.U.K., et al. [1996,eng] 50-6705

Frozen ground compression

- II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973, [1973,rus] 50-5139
- Impact of fires on mountain sod-taiga soils under larch forests in Mongolia. Krasnoshechekov, I.U.N., [1995,eng] 50-2715
- Interaction of mechanical and chemical properties of frozen ground. Kozhevnikov, N.N., [1996,rus] 50-6819
- Microbial activity of tundra and taiga soils at sub-zero temperatures. Clein, J.S., et al. [1995,eng] 50-2025
- Microbial life in permafrost: a historical review. Gilichinskii, D.A., et al. [1996,eng] 50-6701
- On the direction of soluble salt migration during freezing. Qiu, G.Q., et al. [1989,chi] 50-1373
- Organic compounds in a permafrost sediment core from Siberia. Matsumoto, G.I., et al. [1995,eng] 50-3844
- Physical-chemical fundamentals of strength of frozen saline soils. Roman, L.T., et al. [1996,rus] 50-6826
- Requirements for heap leaching under permafrost conditions. Putsyn, A.B., [1995,eng] 50-418
- Review of papers from previous conferences on heat and mass transfer in freezing soils. Fukuda, M., et al. [1992,eng] 50-24
- Unfrozen water content of soil containing NaCl relating to freezing-thawing processes. Zhang, L.X., et al. [1995,chi] 50-5637
- Vertical migration of diesel into silty sand subject to cyclic freeze-thaw. Biggar, K.W., et al. [1996,eng] 50-6117
- Frozen ground compression**
Axial loading of foundations embedded in frozen soils. Selvadurai, A.P.S., et al. [1995,eng] 50-173
- Basic processes determining the rheological behavior of plastic-frozen ground under stress. Ukhov, S.B., et al. [1996,rus] 50-6827
- Behavior of a sand in frozen and unfrozen states. Swan, C.W., [1996,eng] 50-6147
- Calculating method of frost heaving reaction in seasonal frozen ground region. Zhou, Y.C., [1989,chi] 50-1366
- Compressibility of saline frozen ground on the Yamal Peninsula. Morkovkin, E.I.U., et al. [1989,rus] 50-2307
- Compressibility of thawing ground. Petrov, V.S., [1993,rus] 50-125
- Cone penetration test (CPT) in cold regions engineering. Fortier, R., et al. [1996,eng] 50-6145
- Creep and creep strength of frozen soil. Ma, W., et al. [1995,eng] 50-4519
- Creep and strength behaviour of frozen swelling clayey soils. Zhang, J.M., et al. [1989,chi] 50-1369
- Creep and yield model of frozen soil under triaxial compression. Fish, A.M., [1995,eng] 50-172
- Cryogenic movements of soil in Hornsund. Klementowski, J., [1989,pol] 50-2899
- Deformation of frozen sandy soils with a cloddy structure during thawing. Shevchenko, L.V., et al. [1996,rus] 50-6832
- Development and application of a low temperature triaxial testing apparatus. Zhang, C.Q., [1989,chi] 50-1379
- Dynamic testing of frozen soil samples with an exploding wire system. Fyfe, I.M., [1968,eng] 50-1668
- Earth dams under confining pressure subject to freeze thaw. Ota, H., et al. [1995,jpn] 50-6735
- Establishment of a model for predicting unfrozen water content in saline frozen soils. Xu, X.Z., et al. [1995,eng] 50-4517
- Experimental studies on the resistance of frozen ground to maximum thermo-erosion washout. Pendin, V.V., et al. [1996,rus] 50-6407
- Forecasting deformation properties of thawing sandy soils according to data from compression tests. Gerasimov, A.S., et al. [1989,rus] 50-2300
- Freeze-thaw effects of fine-grained soil permeability. Eigenbrod, K.D., [1996,eng] 50-6749
- Freezing soil textures allowing for compressibility of the unfrozen zone. Gorelik, I.A.B., et al. [1996,eng] 50-6484
- Frozen soil-structure interfaces. Ladanyi, B., [1995,eng] 50-3806
- Geocryological studies in arctic regions, Vol. 5: Poster papers. Geokriologicheskie issledovaniya v arkticheskikh raionakh: mezhnunarodnyi simpozium, SSSR, IAmburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, August 1989), [1990,rus] 50-2299
- Influence of temperature and pressure on cryogenic structure of freezing soil. Wang, J.C., et al. [1995,chi] 50-5636
- Mathematical model and the Takashi model of soil freezing. Nakano, Y., [1996,eng] 50-6485
- Mechanical behavior of frozen earth materials under high pressure triaxial test conditions. Chamberlain, E.J., et al. [1970,eng] 50-3310
- Mechanism for consolidating ice and saline frozen ground with polyvinyl alcohol admixtures. Cheverev, V.G., et al. [1993,rus] 50-127
- Methodological prerequisites for using time analogy methods in frozen ground mechanics. Roman, L.T., et al. [1996,rus] 50-6830
- Microstructural changes in frozen sandy soil under confining pressures. Ma, W., et al. [1995,chi] 50-5623
- New method for predicting the long-term strength of frozen soils. Roman, L.T., et al. [1992,eng] 50-27
- On filtering consolidation of ground during pre-construction thawing. Barzegian, R.M., et al. [1996,rus] 50-6831
- Photoviscoelastic modeling of the creep of frozen soil. Zhao, X.S., et al. [1996,eng] 50-6743

Frozen ground expansion

Frozen ground settling

- Preliminary study on the calculation of deformation of frozen wall. Mi, H.Z., [1989,chi] 50-1397
- Strength characteristics of frozen sandy soil. Wu, Z.W., et al. [1995,eng] 50-4518
- Strength characteristics of frozen soil under torsional loading. Peng, W.W., et al. [1995,chi] 50-5638
- Stress and temperature effects on silt frost heave. Marandi, S.M., et al. [1996,eng] 50-6109
- Thermal stresses on mine tunnels in frozen rock. Izakson, V.I., [1996,eng] 50-6495
- Triaxial compressive strength of frozen soil under constant deformation rates. Zhu, Y.L., et al. [1989,chi] 50-1368
- Uniaxial compressive strength of frozen ground at low subzero temperatures. Ershov, E.D., et al. [1996,rus] 50-6828
- Use of frozen ground techniques in construction. Sanger, F.J., [1967,eng] 50-2478
- Frozen ground expansion**
- Alleviating the effects of frost action on gas distribution and regulator station piping. Arnold, J.M., et al. [1985,eng] 50-4363
- Foundation heave induced by a subgrade cooling system over permafrost. Scher, R.L., [1991,eng] 50-1737
- Frost heave due to ice lens formation in freezing soils. 1. Theory and verification. Sheng, D., et al. [1995,eng] 50-742
- Frost heaving of forest tree seedlings: a review. Goulet, F., [1995,eng] 50-6520
- Heaving pressures and frost heave. Kettle, R.J., [1977,eng] 50-2324
- Incorporation of a drainage layer and infiltration into FROST. Abdel-Salam, A., et al. [1993,eng] 50-6050
- Manual for freezing soil heave stress testing unit. Martin, R.T., [1974,eng] 50-4265
- Problem of primary frost heave with frost penetration. Ding, Z.Z., [1995,eng] 50-2162
- Proceedings. Colloquium on Frost Heave Testing and Research, Nottingham, England, May 18, 1977. [1977,eng] 50-2311
- Frozen ground mechanics**
- Alaskan glacier basal ice deformation. Hart, J.K., [1995,eng] 50-1882
- Basic processes determining the rheological behavior of plastic-frozen ground under stress. Ukhov, S.B., et al. [1996,rus] 50-6827
- Borehole penetration and expansion devices for ice testing. Ladanyi, B., [1996,eng] 50-5048
- Brief review of physical and mathematical models of frost heave. Holden, J.T., [1981,eng] 50-2137
- Calculation of water transport in the LR 90 test. Onalp, A., [1977,eng] 50-2325
- Cold regions aspects of mobile test bed hardening in Montana. Blaisdell, G.L., et al. [1987,eng] 50-2725
- Cold regions aspects of mobile test bed hardening in Montana. Blaisdell, G.L., et al. [1987,eng] 50-2725
- Concept for the rehabilitation of transportation infrastructures in northern regions. Ladanyi, B., [1994,fre] 50-4946
- Corrosive aggressiveness of saline frozen ground with regard to steel (in the example of Yamal soil). Zykov, I.U.D., et al. [1995,rus] 50-2513
- Creep of frozen soil by damage mechanics. Miao, T.D., et al. [1995,eng] 50-1556
- Cryogenic fissures as a factor of soil anisotropy. Kulikov, A.I., [1996,eng] 50-5449
- Cryogenic movements of soil in Hornsund. Klementowski, J., [1989,pol] 50-2899
- Deformation of frozen sandy soils with a cloddy structure during thawing. Shevchenko, L.V., et al. [1996,rus] 50-6832
- Deformation properties of saline frozen rocks. Brushkov, A.V., [1996,rus] 50-6829
- Development of a quantitative model of frost heave. Holden, J.T., [1977,eng] 50-2322
- Discussion of paper by Biggar, et al. Juárez-Badillo, E., et al. [1995,eng] 50-582
- Drilling and sampling of permafrost for site investigation purposes: a review. Riddle, C.H., et al. [1991,eng] 50-1747
- Dynamic deformation characteristics of undisturbed riverbed gravels. Yasuda, N., et al. [1996,eng] 50-4861
- Dynamic testing of frozen soil sample with an exploding wire system. Fyfe, I.M., [1968,eng] 50-2029
- Effect of chemical composition of soils on the strength and deformability of frozen saline soils. Roman, L.T., [1995,eng] 50-632
- Effect of fines content on frost heave. Tester, R.E., et al. [1996,eng] 50-6752
- Effect of introduced disturbances on the development of thermooresional processes. Glavatskikh, V.V., et al. [1996,rus] 50-6404
- Effects of total water content on dynamic properties of frozen soils. Fukuda, M., et al. [1991,eng] 50-1748
- Electrical freezing potentials measured in a pingo growing in the western Canadian Arctic. Parameswaran, V.R., et al. [1996,eng] 50-5471
- Engineers in Bosnia: an overview. Treleaven, D.L., [1996,eng] 50-5144
- Estimation of unsaturated permeability from suction curves. Thompson, J.D., [1981,eng] 50-2144
- Experimental design for laboratory simulation of periglacial solifluction processes. Harris, C., et al. [1996,eng] 50-5778
- Experimental studies of the interaction of oil with cryogenic rocks. Ershov, E.D., et al. [1996,rus] 50-6823
- Explosives in frozen ground. Roberts, A., [1971,eng] 50-5763
- Features of the breakup of frozen dispersed rocks from their interaction with water. Vychuzhin, T.A., [1992,rus] 50-812
- Freeze-thaw dewatering and structural enhancement of fine coal tails. Stahl, R.P., et al. [1995,eng] 50-357
- Freeze-thaw effects of fine-grained soil permeability. Eigenbrod, K.D., [1996,eng] 50-6749
- Freezing and cryogenic heave of finely dispersed soil. Buldovich, S.N., [1996,rus] 50-6815
- Frost heave prediction in the Netherlands. Post, H.J., [1981,eng] 50-2140
- Frost heave research at the University of Nottingham. Jones, R.H., [1977,eng] 50-2312
- Frost heave studies by natural freezing. Stenberg, L., [1981,eng] 50-2145
- Frost heave—testing facilities. Kettle, R.J., [1977,eng] 50-2315
- Frost heaving of forest tree seedlings: a review. Goulet, F., [1995,eng] 50-6520
- Full depth testing of frost susceptible soils. Rice, D.C., [1974,eng] 50-4401
- Gelifluction in the alpine periglacial environment of the Tianshan Mountains, China. Liu, G.N., et al. [1996,eng] 50-6704
- Geocryological bases for failure mechanics of permafrost during construction development in arctic regions. Rastegaev, I.K., [1990,rus] 50-1661
- Geocryological studies in arctic regions. Vol. 1: Plenary papers. Geokriologicheskie issledovaniya v arkticheskikh raionakh; mezhnunarodnyi simpozium, SSSR, IAmburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, August 1989), [1990,rus] 50-1659
- Geophysical and laboratory methods for studying the mechanical characteristics of permafrost. Mamzelev, A.P., [1996,rus] 50-6833
- Hydraulic conductivity of frozen granular soils. Andersland, O.B., et al. [1996,eng] 50-4048
- Hydraulic fill ash storage design for the permafrost zone. Koritova, I.V., et al. [1995,eng] 50-1838
- II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973, [1973,rus] 50-5139
- Impact fracturing of frozen ground and rocks. Fedulov, A.I., et al. [1996,eng] 50-4740
- Implications of frost heave for patterned ground, Tibet Plateau, China. Wang, B.L., et al. [1995,eng] 50-2808
- Instrument systems for studying the structure of frozen ground during its deformation. Erbiagin, I.F., [1996,rus] 50-6836
- Interaction of mechanical and chemical properties of frozen ground. Kozhevnikov, N.N., [1996,rus] 50-6819
- Long-term pile load testing system performance in saline and ice-rich permafrost. Biggar, K.W., et al. [1996,eng] 50-6427
- Mathematical model of frost heave and thaw settlement in pavements—draft. Guymon, G.L., et al. [1986,eng] 50-4348
- Mathematical model to correlate frost heave of pavements with laboratory predictions. Final report. Berg, R.L., et al. [1996,eng] 50-3333
- Mechanical behavior of frozen earth materials under high pressure triaxial test conditions. Chamberlain, E.J., et al. [1970,eng] 50-3310
- Mechanical properties of high ice content ground as a composite material. Gerasimov, A.S., et al. [1989,rus] 50-2257
- Methodological prerequisites for using time analogy methods in frozen ground mechanics. Roman, L.T., et al. [1996,rus] 50-6830
- Migration of water vapor across the boundary between snow cover and frozen soil. Golubev, V.N., et al. [1995,rus] 50-4111
- Model pile tests in saline soils. Christopherson, A., et al. [1991,eng] 50-1719
- Modelling and calculating the thermoplastic state of frozen ground. Dubina, M.M., et al. [1991,rus] 50-5054
- Modelling of ice formation processes in freezing soils. Gorelik, I.A.B., et al. [1996,rus] 50-6813
- Norwegian gelifluction stages from dated buried soils. Nesje, A., [1993,eng] 50-828
- On the estimation of frost loads. Rajani, B., et al. [1996,eng] 50-6751
- Photoviscoelastic modeling of the creep of frozen soil. Zhao, X.S., et al. [1996,eng] 50-6743
- Physics, mathematics and technology of ice segregation. Arakawa, K., [1981,eng] 50-2138
- Pile bearing capacity in frozen soils. Mirenbur, I.U.S., [1996,eng] 50-6054
- Piles and pile foundations under conditions of Siberia. Solov'ev, I.U.I., ed. [1994,rus] 50-5141
- Pore-water pressures in freezing and thawing fine-grained soils. Eigenbrod, K.D., et al. [1996,eng] 50-4756
- Prediction of frost heave of roads—a simple empirical model. Sætersdal, R., [1981,eng] 50-2139
- Prediction of frost heave. Jones, R.H., [1981,eng] 50-2136
- Pressure studies on frost heave in soil and glaciers. Radd, F.J., et al. [1966,eng] 50-1409
- Probabilistic approach to determining frost heave. Chamberlain, E.J., et al. [1981,eng] 50-2141
- Proceedings of the First Conference of Russian Geocryologists, June 3-5, 1996, Moscow, Vol.2. Konferentsiya geokriologov Rossi, 1st, Moscow State University, June 3-5, 1996, [1996,rus] 50-6808
- Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991, [1991,eng] 50-1696
- Proceedings. Seminar on the Prediction of Frost Heave, Nottingham, England, Apr. 9, 1981, [1981,eng] 50-2135
- Rates of heave and surface rotation of periglacial frost boils in the White Mountains, California. Wilkerson, F.D., [1995,eng] 50-3785
- Reinforcement percentage effects on bending strength of soil-ice mixtures. Nixon, W.A., et al. [1995,eng] 50-358
- Role of climate in periglacial solifluction. Harris, C., [1993,eng] 50-845
- Secondary precipitates in Pleistocene and present cryogenic environments. Vogt, T., et al. [1996,eng] 50-4045
- Sedimentary petrogenesis and its characteristics in the cryolithozone. Danilov, I.D., [1995,eng] 50-6074
- Shear moduli and damping in frozen and unfrozen clay by resonant column tests. Al-Hunaidi, M.O., et al. [1996,eng] 50-5817
- Soil freeze-thaw effects on bank erodibility and stability. Gatto, L.W., [1995,eng] 50-2706
- Solifluction and climatic variation in the Holocene. Frenzel, B., ed. et al. [1993,eng] 50-823
- Solifluction as a function of strength in thawing soil. Bondarenko, G.I., [1996,rus] 50-6401
- Sources of variability in a constant boundary temperature frost heave test. Lomas, K.J., [1981,eng] 50-2143
- Strength and yield criteria of frozen soil. Ma, W., et al. [1995,eng] 50-5478
- Study of cryoseisms ("frostquakes") in the Sebago Lake region, Maine. Allen, R.P., [1993,eng] 50-5518
- Study of practicability of photoviscoelastic simulation test for frozen soil's creep. Wang, T.D., et al. [1995,chi] 50-5624
- Thermal calculations for pipe laying in frozen ground. Danielian, I.U.S., et al. [1990,rus] 50-1618
- Thermal equilibrium in freezing unsaturated porous media. Tao, Y.X., et al. [1993,eng] 50-3362
- Traction and hardening tests of mobile missile launcher over frozen ground. Chamberlain, E.J., et al. [1988,eng] 50-2524
- Universal frost susceptibility test apparatus. Chamberlain, E.J., [1986,eng] 50-1974
- Winter methane dynamics in a temperate peatland. Meiloh, R.A., et al. [1996,eng] 50-6052
- World Oil's handbook of arctic well completions. Goodman, M.A., [1978,eng] 50-2057
- Frozen ground physics**
- Anisotropy coefficient of the electrical resistivity of frozen ground. Velikin, S.A., et al. [1995,rus] 50-2512
- Behavior of crystals in kimberlite and ice under the action of shock waves. Beloborodov, V.N., et al. [1995,eng] 50-1206
- Calibration of time domain reflectometry for measurement of liquid water in frozen soils. Seyfried, M.S., et al. [1996,eng] 50-3308
- Compressibility of perennially frozen loams in Chita. Torgashev, V.V., et al. [1993,rus] 50-126
- Corrosive aggressiveness of saline frozen ground with regard to steel (in the example of Yamal soil). Zykov, I.U.D., et al. [1995,rus] 50-2513
- Dielectric moisture measurement of frozen ground. Frolov, A.D., [1996,rus] 50-6835
- Effect of frozen ground strength on hardening performance of the Hard Mobile Launcher. Chamberlain, E.J., et al. [1989,eng] 50-3042
- Effect of saline frozen ground on radio wave propagation in arctic shore regions. Frolov, A.D., et al. [1995,eng] 50-202
- Elasticity of partially saturated frozen sand. Jacoby, M., et al. [1996,eng] 50-4323
- Evaluating the deformation and strength properties of frozen ground using an acoustic method. Zykov, I.U.D., et al. [1995,rus] 50-2504
- Examining the use of time domain reflectometry for measuring liquid water content in frozen soil. Spaans, E.J.A., et al. [1995,eng] 50-2543
- How to make a palsa: a field experiment on permafrost formation. Seppälä, M., [1995,eng] 50-874
- Interaction of mechanical and chemical properties of frozen ground. Kozhevnikov, N.N., [1996,rus] 50-6819
- Monitoring soil condition in the northern Tibetan Plateau using SSM/I data. Chang, A.T.C., et al. [1996,eng] 50-6692
- On the prediction of hydraulic conductivity of frozen soils. Tarnawski, V.R., et al. [1996,eng] 50-4307
- Parameters of the distribution of electromagnetic waves in frozen ground. Frolov, A.D., et al. [1995,rus] 50-2509
- Physical-chemical fundamentals of strength of frozen saline soils. Roman, L.T., et al. [1996,rus] 50-6826
- Using electrometry to study the dynamics of seasonal freezing and thawing. Boikov, S.A., et al. [1995,rus] 50-2514
- Frozen ground settling**
- Forecasting deformation of asphalt paved frozen roadbed of the Qinghai-Xizang Highway. Wu, Z.W., et al. [1989,chi] 50-1392
- Forecasting settlement during the thawing of frozen ground in Urgal. Evtushenko, S.I., et al. [1985,rus] 50-246
- Foundations for permafrost and other problem soils. Vangool, W.J., [1996,eng] 50-6132
- Geotechnical design of the Baydaratskaya Bay pipeline crossing. Oswell, J.M., et al. [1995,eng] 50-177
- Performance of a Triodetic foundation near Fairbanks, Alaska. Kinney, T.C., [1996,eng] 50-6131
- Permafrost foundation creep prediction from cone penetration tests. Ladanyi, B., et al. [1995,eng] 50-1825
- Road and airfield design for permafrost conditions. Esch, D.C., [1996,eng] 50-6190
- Strength sensitivity index for assessing climate warming effects on permafrost. Ladanyi, B., [1996,eng] 50-6110

Frozen ground strength

- Thaw settlement of seasonally frozen soil. Cheng, E.Y., et al. [1989,chi] 50-1377
- Frozen ground strength**
- Artificial freezing in Tokyo subway construction. Ito, H., et al. [1992,eng] 50-37
- Artificial soil freezing for construction of railroad tunnel. Borkenstein, D., et al. [1992,eng] 50-32
- Axial loading of foundations embedded in frozen soils. Selvadurai, A.P.S., et al. [1995,eng] 50-173
- Behavior of a sand in frozen and unfrozen states. Swan, C.W., [1996,eng] 50-6147
- Buildings with short piles and ventilated foundations in permafrost. Zhu, L.N., et al. [1995,chi] 50-5625
- Calculating method of frost heaving reaction in seasonal frozen ground region. Zhou, Y.C., [1989,chi] 50-1366
- Calculation of frozen wall growth during artificial freezing sinking. Li, S.X., [1995,eng] 50-4521
- Cold regions infrastructure: an international imperative for the 21st century. International Conference on Cold Regions Engineering, 8th, Fairbanks, AK, Aug. 12-16, 1996, [1996,eng] 50-6106
- Cone penetration test (CPT) in cold regions engineering. Fortier, R., et al. [1996,eng] 50-6145
- Creep and creep strength of frozen soil. Ma, W., et al. [1995,eng] 50-4519
- Creep and strength behaviour of frozen swelling clayey soils. Zhang, J.M., et al. [1989,chi] 50-1369
- Creep and yield model of frozen soil under triaxial compression. Fish, A.M., [1995,eng] 50-172
- Dam construction in northern environment: a numerical study. Shen, M., et al. [1996,eng] 50-6168
- Data acquisition system with high accuracy for frozen soil testing. Wu, B.J., et al. [1989,chi] 50-1380
- Determining frost heave resistance of pile foundations. Orzhikhovskii, I.U.R., et al. [1992,eng] 50-38
- Determining the bearing strength of frozen foundations with variable temperature. Kononov, A.A., [1989,rus] 50-2253
- Development and application of a low temperature triaxial testing apparatus. Zhang, C.Q., [1989,chi] 50-1379
- Device for loosening frozen ground before excavation. Mashev, V.A., et al. [1992,rus] 50-1942
- Driven pile capacities in warm permafrost in Komi Republic. Russia. Thompson, S.R., et al. [1996,eng] 50-6128
- Dynamic testing of frozen soil samples with an exploding wire system. Fyfe, I.M., [1968,eng] 50-1668
- Earth dams under confining pressure subject to freeze thaw. Ota, H., et al. [1995,jpn] 50-6735
- Effect of chemical composition of soils on the strength and deformability of frozen saline soils. Roman, L.T., [1995,eng] 50-632
- Effect of fines content on frost heave. Tester, R.E., et al. [1996,eng] 50-6752
- Effect of frozen ground strength on hardening performance of the Hard Mobile Launcher. Chamberlain, E.J., et al. [1989,eng] 50-3042
- Engineering behavior of frozen swelling soils. Wu, Z.W., et al. [1989,chi] 50-1378
- Evaluating the deformation and strength properties of frozen ground using an acoustic method. Zykov, I.U.D., et al. [1995,rus] 50-2504
- Explosives in frozen ground. Roberts, A., [1971,eng] 50-5763
- Feasibility study of foxhole excavation by compressed gas blasting. Mellor, M., et al. [1971,eng] 50-5757
- Freeze-thaw effects of fine-grained soil permeability. Eigenbrod, K.D., [1996,eng] 50-6749
- Freezing soil textures allowing for compressibility of the unfrozen zone. Gorelik, I.A.B., et al. [1996,eng] 50-6484
- Frost heave in subgrade soils of hydraulic structures. Wang, J.G., et al. [1989,chi] 50-1360
- Frozen ground structures—basic principles of design. ISGF (International Symposium on Ground Freezing) Working Group 2, [1992,eng] 50-34
- Frozen shaft for nuclear waste disposal in Germany. Jordan, P., et al. [1992,eng] 50-29
- Frozen soil-structure interfaces. Ladanyi, B., [1995,eng] 50-3806
- Geocryology research in China in the last decade: review and prospect. Cheng, G.D., [1995,eng] 50-4511
- Ground freezing 91, Vol. 2. International Symposium on Ground Freezing, 6th, Beijing, Sep. 10-12, 1991, [1992,eng] 50-23
- Hydraulic properties and frost susceptibility of unsaturated soil. Chen, X.B., et al. [1989,chi] 50-1359
- Influence of soil properties on ice-wall formation. Zhang, Y., [1992,eng] 50-30
- Literature review on mechanical properties of frozen soil. Chen, X.S., et al. [1992,eng] 50-26
- Mathematical model and the Takashi model of soil freezing. Nakano, Y., [1996,eng] 50-6485
- Mathematical model of a freezing wall with freezing pipes. Gao, M., [1989,chi] 50-1400
- Methodological prerequisites for using time analogy methods in frozen ground mechanics. Roman, L.T., et al. [1996,rus] 50-6830
- Methods for calculating the temperature field of a freezing wall. Fu, L.D., et al. [1989,chi] 50-1399
- Microstructural changes in frozen sandy soil under confining pressures. Ma, W., et al. [1995,chi] 50-5623
- Mutual influence of ice heave and interlayer swelling in clay rocks. Final report (draft). Czarda, K.A., et al. [1986,eng] 50-1690

- Nearshore geotechnical and environmental properties in arctic regions. Clausner, J.E., et al. [1978,eng] 50-3941
- New method for predicting the long-term strength of frozen soils. Roman, L.T., et al. [1992,eng] 50-27
- Nonlinear creep of artificially frozen Emscher marl. Klein, J., [1978,ger] 50-3852
- Oil and gas development challenges in the Russian Arctic. Ruzhanskii, V.E., et al. [1996,eng] 50-6432
- On the thermodynamic base for the stability of frozen soil system. Ding, D.W., [1989,chi] 50-1350
- Performance of landfill cover systems in cold climates. Lee, J.Y., [1994,eng] 50-371
- Permafrost and the environment in Alaska. Lotspeich, F.B., [1973,eng] 50-854
- Physical process and cryogenic texture of soil during freezing. Wang, J.C., et al. [1989,chi] 50-1353
- Physical-chemical fundamentals of strength of frozen saline soils. Roman, L.T., et al. [1996,rus] 50-6826
- Pile bearing capacity in frozen soils. Mirenbur, I.U.S., [1996,eng] 50-6054
- Preliminary study on the calculation of deformation of frozen wall. Mi, H.Z., [1989,chi] 50-1397
- Preventing frost damage to irrigation canals by geotextile. Chen, L., et al. [1996,eng] 50-6167
- Proceedings. Chinese National Conference on Permafrost, 3rd, Harbin, China, Aug. 19-24, 1986, [1989,chi] 50-1340
- Recent ground freezing in Scandinavia. Berggren, A.L., [1992,eng] 50-35
- Reinforcement percentage effects on bending strength of soil-ice mixtures. Nixon, W.A., et al. [1995,eng] 50-358
- Results of experimental studies on resistance of thawing ground to a normal load. Torgashev, V.V., [1993,rus] 50-129
- Review of papers on engineering problems of frozen ground. Thimus, J.F., [1992,eng] 50-28
- Shear moduli and damping in frozen and unfrozen clay by resonant column tests. Al-Hunaidi, M.O., et al. [1996,eng] 50-5817
- Slope stability problems in open pit coal mines in permafrost regions. Vakili, J., [1991,eng] 50-1749
- Soil frost heave and bearing tests. Lausanne, Switzerland. Federal Institute of Technology, Laboratory of Soil Mechanics. (École Polytechnique Fédérale de Lausanne, Laboratoire de mécanique des sols) (Eidgenössische Technische Hochschule), [1988,fre] 50-1669
- Soil thermal properties for the design of underground structures in cold regions. Steinmanis, J.E., et al. [1996,eng] 50-6146
- Solifluction as a function of strength in thawing soil. Bondarenko, G.I., [1996,rus] 50-6401
- Some tensile creep characteristics of frozen loess. Shen, Z.Y., et al. [1995,chi] 50-5622
- Steel pipe pile foundations for school building in saline permafrost. Merrill, K.S., et al. [1996,eng] 50-6127
- Strength and yield criteria of frozen soil. Ma, W., et al. [1995,eng] 50-5478
- Strength characteristics of frozen sandy soil. Wu, Z.W., et al. [1995,eng] 50-4518
- Strength characteristics of frozen soil under torsional loading. Peng, W.W., et al. [1995,chi] 50-5638
- Strength sensitivity index for assessing climate warming effects on permafrost. Ladanyi, B., [1996,eng] 50-6110
- Stress and temperature effects on silt frost heave. Marandi, S.M., et al. [1996,eng] 50-6109
- Stress calculation of frozen wall with viscoelastic plastic theory. Lou, G.D., [1989,chi] 50-1398
- Study of practicality of photoviscoelastic simulation test for frozen soil's creep. Wang, T.D., et al. [1995,chi] 50-5624
- Study on horizontal frost heaving force of retaining wall in seasonal frozen ground region. Sui, T.L., et al. [1989,chi] 50-1365
- Support of vertical-shaft collar under complex geocryological conditions. Izakson, V.I.U., et al. [1995,eng] 50-417
- Temperatures and stresses in frost susceptible soil around a chilled pipeline. Coutts, R.J., [1991,eng] 50-70
- Tensile adfreezing strength between frozen soil and foundation. Ding, J.K., et al. [1989,chi] 50-1370
- Test standard and design value of normal frost heaving force. Tong, C.J., et al. [1989,chi] 50-1364
- Testing methods for frozen soils. ISGF (International Symposium on Ground Freezing) Working Group 1, [1992,eng] 50-33
- Traction and hardening tests of mobile missile launcher over frozen ground. Chamberlain, E.J., et al. [1988,eng] 50-2524
- Triaxial compressive strength of frozen soil under constant deformation rates. Zhu, Y.L., et al. [1989,chi] 50-1368
- Uniaxial compressive strength of frozen ground at low subzero temperatures. Ershov, E.D., et al. [1996,rus] 50-6828
- Use of frozen ground techniques in construction. Sanger, F.J., [1967,eng] 50-2478
- World's first artificial ice plug for a hydro tunnel. Berggren, A.L., et al. [1995,eng] 50-5708
- Frozen ground temperature**
- Analysis of the air temperature in the Holocene using various methods. Baranova, N.A., et al. [1996,rus] 50-6350
- Applicability of Soviet arctic mining technology to northern America. Skudrzyk, F.J., [1991,eng] 50-1743
- Assessing effects on cryogenic terrain. Zotova, L.I., et al. [1996,rus] 50-6846
- Characteristics of the development of thermo-erosional gullies on mid-alassy slopes. Varlamov, S.P., [1996,rus] 50-6405
- Climatic warming and the degradation of warm permafrost. Lunardini, V.J., [1996,eng] 50-6482

Frozen ground thermodynamics

- CO₂ fluxes in peatlands under varying temperature and moisture conditions. Silvola, J., et al. [1994,eng] 50-3218
- Computer simulation of heat conduction in freezing and thawing soils. Hashemi, H.T., et al. [1966,eng] 50-4605
- Construction effects on soil temperature in Noril'sk. Kadkina, E.L., [1990,rus] 50-1617
- Degradation of the cryolithozone in Russia under global climatic warming. Ershov, E.D., et al. [1996,rus] 50-6840
- Depth hoar influence on permafrost thermal regime. Zhang, T., et al. [1996,eng] 50-6585
- Determining the bearing strength of frozen foundations with variable temperature. Kononov, A.A., [1989,rus] 50-2253
- Dielectric properties of frozen saline sands. Frolov, A.D., et al. [1995,rus] 50-2508
- Effect of soil-ground and surface conditions on the insulating properties of snow cover. Konstantinov, P.I.A., [1996,rus] 50-6393
- Effect of technogenic disturbances on the thermal regime of soils in Central Yakutia. Skriabin, P.N., et al. [1996,rus] 50-6394
- Effects of total water content on dynamic properties of frozen soils. Fukuda, M., et al. [1991,eng] 50-1748
- Engineering-ecology safety during the operation of oil and gas facilities. Konstantinov, P.I., [1996,rus] 50-6845
- Establishment of a model for predicting unfrozen water content in saline frozen soils. Xu, X.Z., et al. [1995,eng] 50-4517
- Experimental study of the thermal regime of soils in the arctic regions of Western Siberia. Pavlov, A.V., et al. [1996,rus] 50-6388
- Freezing temperature of soil and unfrozen water content in frozen soil. Tao, Z.X., et al. [1989,chi] 50-1371
- Frozen shaft for nuclear waste disposal in Germany. Jordan, P., et al. [1992,eng] 50-29
- Geocryological studies in arctic regions, Vol.3, part 2: Stability of processes occurring in frozen soils. Geokriologicheskije issledovaniia v arkticheskikh raionakh; mezhdunarodnyi simpozium, SSSR, IAmburg, August 1989 (Geocryological Studies in Arctic Regions: International Symposium, USSR, Yamburg, August 1989), [1990,rus] 50-1608
- Glaciological research in Hidden Valley, Mukut Himal in 1994. Fujii, Y., et al. [1996,eng] 50-5510
- Ground temperature of permafrost active layer in the Fugleberget catchment basin. Kamiński, A., et al. [1993,eng] 50-2203
- High-temperature permafrost as building foundation. Sal'nikov, P.I., [1993,rus] 50-109
- Ice-wedge formation in northern Asia during the Holocene. Vasil'chuk, I.U.K., et al. [1996,eng] 50-6705
- Mathematical model and the Takashi model of soil freezing. Nakano, Y., [1996,eng] 50-6485
- Methods for calculating the temperature field of a freezing wall. Fu, L.D., et al. [1989,chi] 50-1399
- Microwave thawing of frozen soils and gravels. Lindroth, D.P., et al. [1995,eng] 50-359
- Model test of ground temperature variation of embankment. Ye, B.Y., et al. [1989,chi] 50-1396
- New concept in studying and forecasting frost heave. Nevechena, V.L., [1996,rus] 50-6398
- New method for predicting the long-term strength of frozen soils. Roman, L.T., et al. [1992,eng] 50-27
- On filtering consolidation of ground during pre-construction thawing. Barsagian, R.M., et al. [1996,rus] 50-6831
- Permafrost on the Qinghai-Xizang Plateau. Li, S.D., et al. [1992,chi] 50-1490
- Possibility of subsea cryolithogenesis. Shpolianskaia, N.A., [1990,rus] 50-1627
- Prediction of permafrost temperature in bed of structure from field data. Khrustalev, L.N., et al. [1995,eng] 50-345
- Prospects for using solar energy technology in Transbaikalia. Zhelezniak, I.I., et al. [1993,rus] 50-110
- Rapid field determination of upper layer parameters in the cryolithozone. Pavlov, A.V., [1990,rus] 50-1613
- Recent cooling along Hudson Strait, from permafrost temperature measurements. Allard, M., et al. [1995,eng] 50-76
- Seasonal and annual dynamics of frozen ground in the central highland of Iceland. Þórhalldóttir, T.E., [1996,eng] 50-5499
- Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-3129
- Soil respiration in a stand of Scots pine under elevated temperature. Pajari, B., [1994,eng] 50-3211
- State and salinity of soils in the littoral sections of the Kara Sea. Dubikov, G.I., et al. [1996,rus] 50-6376
- Support of vertical-shaft collar under complex geocryological conditions. Izakson, V.I.U., et al. [1995,eng] 50-417
- Temporal analysis of ERS-1 SAR backscatter for hydrology applications. Crevier, Y., et al. [1996,eng] 50-5543
- Time series in geocryology. Mel'nikov, V.P., et al. [1992,rus] 50-134
- Unfrozen water content and grain size of Mackenzie Delta core samples. Patterson, D.E., [1994,eng] 50-400
- Frozen ground thermodynamics**
- Active layer thermal diffusivity from finite difference mathematical methods. Zhang, T., et al. [1995,eng] 50-1141
- Calculation of frozen wall growth during artificial freezing sinking. Li, S.X., [1995,eng] 50-4521
- Calorimetric determination of permafrost water-ice phase composition. Fortier, R., et al. [1996,eng] 50-4863
- Computer simulation of heat conduction in freezing and thawing soils. Hashemi, H.T., et al. [1966,eng] 50-4605

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- Corrosion of pipeline steels in permafrost. White, W.E., et al. [1996,eng] 50-5954
- Critical height of road embankments in permafrost. An, W.D., et al. [1989,chi] 50-1375
- Distinguishing features of the phase transformations in saline frozen soils. Frolov, A.D. [1996,eng] 50-6481
- Effect of technogenic disturbances on the thermal regime of soils in Central Yakutia. Skriabin, P.N., et al. [1996,rus] 50-6394
- Engineering behavior of frozen swelling soils. Wu, Z.W., et al. [1989,chi] 50-1378
- Essential types of frost heaving development of soils. Xu, X.Z., et al. [1995,eng] 50-4516
- Establishment of a model for predicting unfrozen water content in saline frozen soils. Xu, X.Z., et al. [1995,eng] 50-4517
- Experimental studies of frost heave in soils subjected to external stress. Lavrov, S.A., et al. [1996,rus] 50-6814
- Experimental study of the thermal regime of soils in the arctic regions of Western Siberia. Pavlov, A.V., et al. [1996,rus] 50-6388
- Experimental system for one-dimensional freezing of undisturbed soil profiles. Johansson, H., et al. [1995,eng] 50-3758
- Flow and freezing boundary conditions for snow-melt infiltration into a frozen soil. Tao, Y.X., et al. [1993,eng] 50-4550
- Forecasting gully erosion in Yambug. Skubitskaia, M.G., [1996,rus] 50-6406
- Freezing soil textures allowing for compressibility of the unfrozen zone. Gorelik, I.A.B., et al. [1996,eng] 50-6484
- Freezing temperature of soil and unfrozen water content in frozen soil. Tao, Z.X., et al. [1989,chi] 50-1371
- Frost heave due to ice lens formation in freezing soils. 2. Field application. Sheng, D., et al. [1995,eng] 50-743
- Frozen ground structures—basic principles of design. ISGF (International Symposium on Ground Freezing) Working Group 2. [1992,eng] 50-34
- Fundamentals of ice lens formation. Takagi, S., [1975,eng] 50-3390
- Geocryological studies in arctic regions. Vol.3, part 2: Stability of processes occurring in frozen soils. Geokriologicheskoe issledovanie v arkticheskikh raionakh: mezhdunarodnyi simpozium. SSSR, IAMburg. August 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yambug. August 1989). [1990,rus] 50-1608
- Groundwater flow and heat conduction in soil around a freeze pipe. Hashemi, H.T., et al. [1996,eng] 50-4606
- Hydraulic properties and frost susceptibility of unsaturated soil. Chen, X.B., et al. [1989,chi] 50-1359
- Ice formation and structure in various freezing soils. Wang, J.C., et al. [1995,eng] 50-4515
- Infiltration of snowmelt and heat transfer into frozen soil. Zhao, L.T., et al. [1996,eng] 50-6480
- Influence of glaciation on the basin temperature regime. Johansen, H., et al. [1996,eng] 50-5328
- Influence of soil properties on ice-wall formation. Zhang, Y., [1992,eng] 50-30
- Influence of temperature and pressure on cryogenic structure of freezing soil. Wang, J.C., et al. [1995,chi] 50-5636
- Interaction of mechanical and chemical properties of frozen ground. Kozhevnikov, N.N., [1996,rus] 50-6819
- Kinetics of the freezing of water in dispersed soils (experiment, theory). Grechishchev, S.E., et al. [1996,rus] 50-6811
- Mathematical model and the Takashi model of soil freezing. Nakano, Y., [1996,eng] 50-6485
- Mathematical model of a freezing wall with freezing pipes. Gao, M., [1989,chi] 50-1400
- Mathematical model of the freezing-thawing of saline frozen soil. Vasiliev, V.I., et al. [1996,eng] 50-5268
- Means of developing a frozen ground enclosure around a shaft to be sunk. Boguslavskii, E.I., et al. [1992,rus] 50-1901
- Method for determining the thickness of insulation layer of foundation. Ding, D.W., et al. Lanzhou Institute of Glaciology and Geocryology. Ministry of Railways, Northwest Institute. Heilongjiang Provincial Institute of Water Conservancy. Working Group for Thermal Insulation of Foundations. [1989,chi] 50-1374
- Methods for calculating the temperature field of a freezing wall. Fu, L.D., et al. [1989,chi] 50-1399
- Moisture movement and freezing pressures. Hoekstra, P., [1968,eng] 50-1976
- Moisture-based model for calculating daily changes in seasonal soil frost depth. Ryerson, C.C., [1979,eng] 50-3713
- Nature of the displacement of dispersed rocks on slopes. Petrov, V.S., et al. [1996,rus] 50-6402
- On the direction of soluble salt migration during freezing. Qiu, G.Q., et al. [1989,chi] 50-1373
- On the thermodynamic base for the stability of frozen soil system. Ding, D.W., [1989,chi] 50-1350
- Phase change problems in soil freezing. Li, S.X., [1989,chi] 50-1376
- Physical process and cryogenic texture of soil during freezing. Wang, J.C., et al. [1989,chi] 50-1353
- Preparation for excavation of frozen sands by using high frequency currents. Mal'kov, I.U.K., [1992,rus] 50-819
- Proceedings. Chinese National Conference on Permafrost. 3rd. Harbin, China, Aug. 19-24, 1986. [1989,chi] 50-1340
- Proceedings. International Symposium on Thermal Engineering and Sciences for Cold Regions. 5th, Ottawa, May 19-22, 1996. [1996,eng] 50-6428
- Rapid field determination of upper layer parameters in the cryolithothzone. Pavlov, A.V., [1990,rus] 50-1613

- Recent climatic trend and thermal response of permafrost in Salluit, northern Quebec, Canada. Wang, B.L., et al. [1996,eng] 50-6699
- Review of papers from previous conferences on heat and mass transfer in freezing soils. Fukuda, M., et al. [1992,eng] 50-24
- Role of soil microstructure in the geotechnical properties of freezing soils. White, T.L., et al. [1996,eng] 50-6483
- Soil thermal properties for the design of underground structures in cold regions. Steinmanis, J.E., et al. [1996,eng] 50-6146
- Sounding to determine the thermophysical properties of frozen ground and bedrock. Gavril'ev, R.I., [1993,rus] 50-124
- Strength sensitivity index for assessing climate warming effects on permafrost. Ladanyi, B., [1996,eng] 50-6110
- Study on characteristics of moisture migration in saturated freezing soil. Xu, X.Z., et al. [1989,chi] 50-1372
- Temperatures and stresses in frost susceptible soil around a chilled pipeline. Coutts, R.J., [1991,eng] 50-70
- Thaw settlement of seasonally frozen soil. Cheng, E.Y., et al. [1989,chi] 50-1377
- Thermal equilibrium in freezing unsaturated porous media. Tao, Y.X., et al. [1993,eng] 50-3362
- Thermal impact of a buried chilled gas pipeline. Raad, L., et al. [1996,eng] 50-6124
- Thermal stresses on mine tunnels in frozen rock. Izakson, V.I.U., [1996,eng] 50-6495
- Thermodynamic basis for self-regulation and control of the state of frozen ground. Tsibul'skii, V.R., [1990,rus] 50-1609
- Use of frozen ground techniques in construction. Sanger, F.J., [1967,eng] 50-2478
- What makes permafrost permanent? Schoonmaker, D., [1993,eng] 50-3147
- World Oil's handbook of arctic well completions. Goodman, M.A., [1978,eng] 50-2057
- Frozen lakes**
- Characteristics of freezing in five lakes within the jurisdiction of Kushiro. Toukairin, A., [1996,eng] 50-5908
- Climatology and perennial lake ice at Bunge Hills. Doran, P.T., et al. [1996,eng] 50-6416
- Ground penetrating radar sounding of bedrock under a frozen lake. Davis, J.L., et al. [1992,eng] 50-57
- Heat and dissolved oxygen transport processes in ice-covered lakes. Ellis, C.R., [1994,eng] 50-373
- Lake ice and its remote sensing monitoring in the Tibetan Plateau. Chen, X.Z., et al. [1995,chi] 50-5634
- Satellite SAR identification of lake water resources on the North Slope. Jeffries, M.O., et al. [1996,eng] 50-6177
- Thermal ice ridges or ramparts in Lake Kussharo. Toukairin, A., [1996,eng] 50-5909
- See [also]: Icebound lakes
- Frozen liquids**
- Analysis of thermal stresses around a cryosurgical probe. Rabin, Y., et al. [1996,eng] 50-5814
- Antifreeze proteins and their potential use in frozen foods. Griffith, M., et al. [1995,eng] 50-5691
- Changes of model mixtures during freezing and drying. Shalae, E.I.U., et al. [1996,eng] 50-4531
- Comments on the crystal structure of solid trichlorofluoromethane. Prado, P., et al. [1995,eng] 50-3144
- Compaction tests to simulate icy satellite regolith physics. Leliwa-Kopystyński, J., et al. [1995,eng] 50-5200
- Cosmochemical significance of hydrocarbon reaction to frozen benzene impact. Mimura, K., et al. [1995,eng] 50-631
- Cryo-ultramicrotomy of individual latex particles for examination of internal morphology. Marcelli, A.M., [1995,eng] 50-4958
- Crystal structure of dichlorofluoromethane. Pridmore, R.W., et al. [1996,eng] 50-4695
- Diffusive properties of polymer membranes prepared by freeze/thaw techniques. Hickey, A.S., et al. [1995,eng] 50-2698
- Effect of freezing of water samples on viable counts of environmental mycobacteria. Iivanainen, E., et al. [1995,eng] 50-1953
- Estimation of freeze drying transport coefficients. Lombrana, J.I., et al. [1996,eng] 50-5692
- Experimental study of freezing of binary solutions. Zampino, M.A., et al. [1991,eng] 50-1243
- Freeze concentration by layer crystallization. Flesland, O., [1995,eng] 50-5943
- Freeze/thaw treatment on waste activated sludge: a FTIR spectroscopic study. Hong, S.G., et al. [1995,eng] 50-1568
- Freeze/thaw treatment on zone settling of waste activated sludges. Chen, G.W., et al. [1996,eng] 50-5043
- Freezing and melting of mercury in porous glass. Kumzerov, I.U.A., et al. [1995,eng] 50-1132
- Freezing of a salt solution in a packed bed. Chelliah, S., et al. [1995,eng] 50-2956
- Freezing of an aqueous sodium chloride saturated packed bed. Choi, J., et al. [1993,eng] 50-5781
- Freezing rate effects on colloid viscoelasticity. Sahagian, M.E., et al. [1995,eng] 50-1253
- Heat transfer in an ice-water saturated porous medium. Zhang, X.L., [1993,eng] 50-5782
- High-pressure Brillouin scattering and elastic properties of liquid and solid methane. Shimizu, H., et al. [1996,eng] 50-5682
- Ice and hydrate freezing points of aqueous ethylene oxide solutions. Glew, D.N., et al. [1995,eng] 50-45
- Influence of temperature on crystallization of lactose in ice-cream. Livney, Y.D., et al. [1995,eng] 50-2745

- Kinetics of freezing of dimethylacetylene. An electron diffraction study. Huang, J.F., et al. [1995,eng] 50-151
- Laser ablation of organic molecules from frozen matrices. Belov, M.E., et al. [1995,eng] 50-3720
- Low-temperature amorphous phase in a fragile glass-forming substance. Cohen, I., et al. [1995,eng] 50-5971
- Magnetic resonance imaging of frozen plant tissues. Gamble, G.R., [1994,eng] 50-3360
- Magnetic resonance imaging of gel phase transformations. Hong, J.S., et al. [1995,eng] 50-2739
- Mechanism of formation of nanocrystalline hematite prepared by freeze-drying. Bermejo, E., et al. [1995,eng] 50-4289
- Molecular dynamics study of the freezing of clusters of chalcogen hexafluorides. Kinney, K.E., et al. [1996,eng] 50-5780
- Nucleation rates in freezing of molecular clusters. Bartell, L.S., [1995,eng] 50-2346
- Numerical models of heat transfer during food freezing. Tocci, A.M., et al. [1995,eng] 50-596
- Phase transformation in materials with nonuniform phase transition temperatures. Hong, J.S., et al. [1995,eng] 50-755
- Reactivity of imidazoles in pulse and γ -irradiated liquid and frozen systems. Kalecińska, E., et al. [1996,eng] 50-3527
- Scanning microscopy of an autofluorescent biological substance. Evans, J., et al. [1996,eng] 50-4532
- Scavenging of electrons and radicals in frozen chloride-alcohol glasses. Kaleciński, J., [1996,eng] 50-3526
- Solidification of pure liquids and liquid mixtures inside ducts and over external bodies. Fukusako, S., et al. [1994,eng] 50-2348
- Spectrometry of frozen organic surface ionization. Betts, R.L., et al. [1995,eng] 50-657
- Spectrometry of nucleic acid frozen solutions. Boriak, O.A., et al. [1996,eng] 50-4046
- Spectroscopic analysis of frozen cement paste microstructure. Olson, R.A., et al. [1995,eng] 50-1406
- Spectroscopy of photolysis in frozen solution systems. Yamachi, S., et al. [1993,eng] 50-1467
- Structure of solid fluorocarbon. Torrie, B.H., et al. [1996,eng] 50-4696
- Studies on ice nucleating behavior of AgI-AgBr-CuBr system. Radhakrishnan, T., et al. [1996,eng] 50-4290
- Thermal conductivity of normal and deuterated tetrahydrofuran clathrate hydrates. Andersson, O., et al. [1996,eng] 50-2719
- Thermal investigation of crystal nucleation from a supercooled liquid. Mu, R., et al. [1996,eng] 50-4354
- Use of thermal analysis in the development of a better understanding of frozen food stability. Goff, H.D., [1995,eng] 50-3357
- X-ray analysis of frozen clathrate hydrates. Bednarek, J., et al. [1996,eng] 50-4555
- X-ray analysis of ion distribution in frozen salt droplets. Orlovich, D.A., et al. [1995,eng] 50-6590
- Frozen rock strength**
- Blasting frozen iron ore at Knob Lake. Lang, L.C., [1966,eng] 50-5805
- Composite report on drilling and blasting of permafrost at Ferriman Mine. Lang, L.C., [1964,eng] 50-5762
- Deformation properties of saline frozen rocks. Brushkov, A.V., [1996,rus] 50-6829
- Explosives in frozen ground. Roberts, A., [1971,eng] 50-5763
- Impact fracturing of frozen ground and rocks. Fedulov, A.I., et al. [1996,eng] 50-4740
- Impermeable and permeable zones in permafrost. Olovinn, B.A., [1996,eng] 50-6486
- Method of preparing a geocryological foundation for hydrogeological mapping. Lomovtseva, N.S., [1996,rus] 50-6365
- Mutual influence of ice heave and interlayer swelling in clay rocks. Final report (draft). Carda, K.A., et al. [1986,eng] 50-1690
- New permafrost blasting method developed at Asbestos Hill. Lang, L.C., [1976,eng] 50-5749
- Reinforcing the permafrost foundation of the Gornegrat Observatory. Vonder Mühl, D., et al. [1995,ger] 50-4174
- Thermal stresses on mine tunnels in frozen rock. Izakson, V.I.U., [1996,eng] 50-6495
- Frozen rock temperature**
- Conditions for the formation of taliks in mountain regions and foothills. Zhelezniak, M.N., et al. [1996,rus] 50-6411
- Ecological role of a subaqueous cryolithothzone. Zhigarev, L.A., [1991,rus] 50-1302
- Effect of cryopegs on the temperature and salinity of surrounding permafrost. Anisimova, N.P., [1996,rus] 50-6390
- Effect of perennial lake freezing on the water saturation of coal basins. Elisafenko, T.N., [1985,rus] 50-249
- Effect of the laying of gas pipelines on the geosystem of the cryolithothzone in Western Siberia. Moskalenko, N.G., [1996,rus] 50-6849
- Engineering-geocryological conditions of the Neytinsk structure. Dan'ko, V.K., et al. [1983,rus] 50-310
- Engineering-geocryological regionalization of Tavoz Peninsula. Belopukhova, E.B., et al. [1983,rus] 50-308
- Estimating changes in the temperature regime and condition of rocks based on the analysis of climatic data. Ershov, E.D., et al. [1996,rus] 50-6387
- Features of using climatic data in calculating rock temperatures in mountainous countries. Leibman, M.O., [1983,rus] 50-315
- Formation characteristics of the thermal regime of rocks in the Vitim River. Leibman, M.O., [1985,rus] 50-248

Frozen rocks

- Formation of taliks and high temperature frozen rocks under conditions of Central Yakutia. Shender, N.I., et al. [1996.rus] 50-6412
- Freeze-thaw weathering: the cold region "panacea". Hall, K., [1995.eng] 50-4697
- Geocryological reconstructions for the central Russian Plain. Ershov, E.D., et al. [1996.rus] 50-6354
- Geological specifics in the natural dynamics of the subarctic cryolithozone. Oberman, N.G., [1996.rus] 50-6850
- Heat flow in the cryolithozone in relation to subsurface heat flow. Deviatkin, V.N., et al. [1990.rus] 50-1626
- Heat flow in the lithosphere in the western Siberian platform. Deviatkin, V.N., et al. [1996.rus] 50-6392
- Perennially frozen rock as a site for burying industrial wastes. Borisov, V.N., et al. [1996.rus] 50-6824
- Rock breakdown during spring thaw in Spitsbergen. Ødegård, R.S., et al. [1995.eng] 50-4831
- Supporting permafrost bases for tower pile-drivers of vertical mine shafts while in operation. Izakson, V.I.U., et al. [1989.rus] 50-2251
- Thermal stresses on mine tunnels in frozen rock. Izakson, V.I.U., [1996.eng] 50-6495
- Tien Shan: trends of changes in the geocryological conditions. Gorbunov, A.P., et al. [1996.rus] 50-6841
- Frozen rocks**
- Algorithm for the solution to the axisymmetrical problem of the mechanics of frozen rocks. Sleptsov, V.I., [1992.rus] 50-813
- Assembly for studying physical processes during drilling. Antipin, I.N., et al. [1992.rus] 50-796
- Borehole method of determining the ice content and thermal properties of dispersed rocks. Rashkin, A.V., [1993.rus] 50-128
- Characteristics of the distribution of absorbed ions in synorogenic and epicyrogenic rocks. Ostroumov, V.E., [1996.rus] 50-6822
- Characteristics of the seasonal freezing of rocks in the Tien Shan. Severskii, E.V., [1996.rus] 50-6368
- Chemical weathering of rocks in the Hecla Hoek coal formation under polar climatic conditions. Chlebowski, R., [1989.pol] 50-2882
- Computer simulation of arctic shelf freezing during the Pleistocene. Sigunov, I.U.A., et al. [1995.eng] 50-6582
- Cryogenic structure of surface deposits in Central Yakutia. Konchenko, L.A., [1996.rus] 50-6378
- Deformation properties of saline frozen rocks. Brushkov, A.V., [1996.rus] 50-6829
- Determining the geocryological stability of the cryolithozone. Osadchaia, G.G., et al. [1996.rus] 50-6851
- Dynamic deformation characteristics of rock foundations in the cryolithozone. Voronkov, O.K., et al. [1995.rus] 50-2505
- Ecological role of a subaqueous cryolithozone. Zhigarev, L.A., [1991.rus] 50-1302
- Effect of perennial rock freezing on the water saturation of coal basins. Elisafenko, T.N., [1985.rus] 50-249
- Effect of the seasonal thaw layer in rocks on their deformation properties. Khamin, M.N., [1993.rus] 50-122
- Estimating changes in the temperature regime and condition of rocks based on the analysis of climatic data. Ershov, E.D., et al. [1996.rus] 50-6387
- Experimental studies of the interaction of oil with cryogenic rocks. Ershov, E.D., et al. [1996.rus] 50-6823
- Features of borehole blasting excavation of placers in the Far North. Dobrovolskii, G.N., et al. [1992.rus] 50-802
- Features of the breakup of frozen dispersed rocks from their interaction with water. Vychuzhin, T.A., [1992.rus] 50-812
- Filtration permeability of permafrost. Olovin, B.A., [1993.rus] 50-89
- Forecasting seismic effects under cryolithozone conditions. Dzhuik, V.I., [1995.rus] 50-2506
- Formation of taliks and high temperature frozen rocks under conditions of Central Yakutia. Shender, N.I., et al. [1996.rus] 50-6412
- Freeze-thaw weathering: the cold region "panacea". Hall, K., [1995.eng] 50-4697
- Geochemical studies of layered ground ice and frozen rocks (from work on Ney-To Lake). Dubikov, G.I., [1983.rus] 50-312
- Geophysical investigations of cryolithozone. Scientific papers. Frolov, A.D., ed. [1995.rus] 50-2502
- Ice complex and greenhouse gases. Kunitiskii, V.V., [1996.rus] 50-6380
- Improving the working capacity of rock-tunneling machines in frozen placer deposits. Egorov, I.K., et al. [1992.rus] 50-810
- Influence of the properties of porous media on the durability of frozen calcareous rocks. Bellanger, M., et al. [1996.eng] 50-4862
- Means of developing a frozen ground enclosure around a shaft to be sunk. Boguslavskii, E.I., et al. [1992.rus] 50-1901
- Methane in frozen rocks and some aspects of forecasting its emission. Rivkin, F.M., [1996.rus] 50-6383
- Migration of chemical elements and ions in the seasonal thaw layer and upper layer of perennially frozen rocks. Leibman, M.O., et al. [1996.rus] 50-6848
- Migration of chemical elements in frozen rocks. Chuvilin, E.M., et al. [1996.rus] 50-6820
- Moisture transfer, water-soluble substances and structural transformation during freezing. Brovka, G.P., et al. [1996.rus] 50-6821
- Operating chambered shafts in frozen rock. Tiunin, V.P., et al. [1992.rus] 50-808

- Perennially frozen rock as a site for burying industrial wastes. Borisov, V.N., et al. [1996.rus] 50-6824
- Polarization of cryogenic rocks and its manifestation in electromagnetic sounding curves. Krylov, S.S., et al. [1995.rus] 50-2510
- Pressure and salinity effects on phase composition of water in frozen ground. Kondakov, V.V., et al. [1990.rus] 50-1612
- Proceedings of the First Conference of Russian Geocryologists, June 3-5, 1996, Moscow, Vol.2. Konferentsiia geokriologov Rossi, 1st, Moscow State University, June 3-5, 1996, [1996.rus] 50-6808
- Question of integrated electromagnetic and seismic studies of frozen rocks in placer mines. Khachai, O.A., et al. [1995.rus] 50-2517
- Relationship between surface and subsurface glaciation on the East European Plain in the Dnepr cold epoch. Nechaev, V.P., [1996.rus] 50-6357
- Shelf freezing and cryolithozone evolution of the Laptev Sea. Fartyshchuk, A.I., [1990.rus] 50-1631
- Study of blast action from extended explosive charges in frozen cohesive rocks. Kiprianov, G.O., et al. [1992.rus] 50-803
- Syngentic layered ground ice in littoral marine deposits in Baydaratskaya Bay. Spesivtsev, V.I., [1996.rus] 50-6384
- Tritium analysis of ground ice: results and prospects. Chizhov, A.B., et al. [1996.rus] 50-6385
- Frozen soil**
- See [also]: Frozen ground
- Fuel additives**
- Fuel additive impairment of diesel fuel low temperature properties. Létoffé, J.M., et al. [1995.eng] 50-4252
- Fuel transport**
- Fuel and oil usage in Antarctica. Sayers, J., [1994.eng] 50-4273
- Workshop on Antarctic Air Transport Networks. Council of Managers of National Antarctic Programs, [1995.eng] 50-6270
- Fuels**
- Automobile emissions under arctic conditions. Andres, R.J., et al. [1996.eng] 50-6173
- Cold weather testing of outdoor gas-fired heaters. Das, D.K., [1996.eng] 50-6141
- Diesel heat recovery plant related to local heating and electricity production. Niemi, S., [1984.eng] 50-3162
- Dirty oil makes a feast for soil bacteria. Kiernan, V., [1996.eng] 50-4872
- Dynamic isotope power system. Hunt, M.E., et al. [1992.eng] 50-396
- Effect of ethanol additives on odor detection of Alaskan gasolines. Zhao, X.H., et al. [1995.eng] 50-3393
- Effects of a diesel spillage at Macquarie I. Simpson, R.D., et al. [1995.eng] 50-3800
- Flame spread over fuel-spilled and/or snow-covered asphalt road. Ishida, H., et al. [1996.eng] 50-4230
- Fuel additive impairment of diesel fuel low temperature properties. Létoffé, J.M., et al. [1995.eng] 50-4252
- Impact of stratospheric flight on ozone and water vapor. Rind, D., et al. [1995.eng] 50-627
- Movement of fuel spills in the Ross Ice Shelf. Tumeo, M.A., et al. [1994.eng] 50-5216
- Producing energy for polar stations from the wind-water temperature gradient. LeGoff, H., et al. [1994.eng] 50-4275
- Russian alternative energy sources in the Antarctic. Sheinman, A.S., [1994.eng] 50-4276
- Status report on alternative energy systems at antarctic stations. Guichard, A., [1994.eng] 50-6423
- Swedish building research in Antarctica. Swedish Council for Building Research, [1992.eng] 50-1419
- Symposium on Antarctic Logistics and Operations, 6th. Proceedings. Symposium on Antarctic Logistics and Operations, 6th, Rome, Italy, Aug. 29-31, 1994, [1994.eng] 50-4267
- Towards new energy systems for antarctic stations. Guichard, A., [1994.eng] 50-4274
- Underground fuel tanks for Alaska. Freas, G.C., [1991.eng] 50-4226
- Using solar energy at the South Pole: photovoltaic electricity and solar heating. Wills, R.H., [1988.eng] 50-3880
- Fungi**
- Arctic fungi classification and structural analysis. Currah, R.S., et al. [1996.eng] 50-4264
- Effect of disturbance on forest soil microbiology in the Himalaya. Joshi, S.R., et al. [1994.eng] 50-5433
- Effect of root fungi on subarctic plant growth. Fernando, A.A., et al. [1996.eng] 50-6747
- Fungal hyphal length in litter of *Dryas octopetala* in high-arctic polar semi-desert, Svalbard. Robinson, C.H., et al. [1996.eng] 50-4010
- Growth temperature preferences of fungal strains from Victoria Land, Antarctica. Zucconi, L., et al. [1996.eng] 50-4009
- Ice nucleation activity associated with plants and fungi. Ashworth, E.N., et al. [1995.eng] 50-3278
- Isotope analysis of variable subarctic plant nutrient access. Michelsen, A., et al. [1996.eng] 50-5772
- Leaf extract allelopathic effects on arctic graminoids. Michelsen, A., et al. [1995.eng] 50-1091
- Mycorrhizal diversity in arctic and alpine tundra: an open question. Gardes, M., et al. [1996.eng] 50-6550
- Preliminary mycobionta (Aphyllophorales, Fungi) of timberline forests in the West Siberian plateau. Kodranta, H., [1995.eng] 50-3168
- Survey of fungal plant diseases in a part of high altitudes of central Himalaya. Bisht, G.S., et al. [1994.eng] 50-5432

Gamma irradiation

- Climatic implications of solar modulation of cosmogenic isotopes in antarctic ice cores. Steig, E.J., et al. [1996.eng] 50-3549
- Formation of amino acid precursors in cometary ice environments by cosmic radiation. Kobayashi, K., et al. [1995.eng] 50-652
- Greenland '90: a first step toward using the polar ice cap as a Cherenkov detector. Barwick, S.W., et al. [1992.eng] 50-4263
- Implications of bedrock cosmic ray exposure age for Fennoscandian ice sheet height. Brook, E.J., et al. [1996.eng] 50-3813
- Incorporating airborne data into the spatial model used to estimate snow water equivalent. Carroll, S.S., et al. [1993.eng] 50-5146
- Moraine dating supports Younger Dryas cooling event. Gosse, J.C., et al. [1995.eng] 50-1255
- Muon μ -particle: a new technique for mineral exploration. Zhou, D.Z., [1993.chi] 50-2382
- On radio detection of ultrahigh energy neutrinos in antarctic ice. Fricter, G.M., et al. [1996.eng] 50-4024
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995.eng] 50-1866
- Radiation-induced polymerization in high pressure ice. Kirikuhin, D.P., et al. [1995.eng] 50-415
- Reactivity of imidazoles in pulse and γ -irradiated liquid and frozen systems. Kalecińska, E., et al. [1996.eng] 50-3527
- Spectroscopy of photolysis in frozen solution systems. Yamachi, S., et al. [1993.eng] 50-1467
- Ultratransparent antarctic ice as a supernova detector. Halzen, F., et al. [1996.eng] 50-6323
- Gas inclusions**
- Diffusion of helium through ice. Davy, J.G., et al. [1970.eng] 50-5748
- Energetics of framework formation in cubic clathrate hydrates. Kosiakov, V.I., et al. [1995.eng] 50-3677
- Geometry and energy calculations of the HS-III polyhedral gas hydrate framework. Kosiakov, V.I., et al. [1995.eng] 50-3676
- Intrapermafrost gas hydrates, Mackenzie Delta. Dallimore, S.R., et al. [1995.eng] 50-560
- Monitoring winter hydrologic characteristics of lakes by microwave radiometry. Bordonkii, G.S., et al. [1995.eng] 50-1402
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995.eng] 50-1866
- Gas liquefaction**
- See [also]: Liquefied gases
- Gas pipelines**
- Alleviating the effects of frost action on gas distribution and regulator station piping. Arnold, J.M., et al. [1985.eng] 50-4363
- Damage to equipment and structures in the North. Novopashin, M.D., et al. [1993.rus] 50-465
- Development of procedures for hot tap welding onto sour service pipelines. Felix, R.D., et al. [1991.eng] 50-1724
- Effect of the laying of gas pipelines on the geosystem of the cryolithozone in Western Siberia. Moskalenko, N.G., [1996.rus] 50-6849
- Engineering-ecology safety during the operation of oil and gas facilities. Konstantinov, I.P., [1996.rus] 50-6845
- Gas pipelines operating at sub-zero temperatures in the UK. Greene, D.P., et al. [1995.eng] 50-178
- Gas-producing units construction experience in the arctic regions. Zavizion, V.G., [1991.eng] 50-1763
- Geotechnical design of the Baydaratskaya Bay pipeline crossing. Oswell, J.M., et al. [1995.eng] 50-1717
- Heerema commits to Siberian gas crossing. [1992.eng] 50-4415
- Oil and gas development challenges in the Russian Arctic. Ruzhanskii, V.E., et al. [1996.eng] 50-6432
- Overview of pipelines in Russian cold regions. Ivantsov, O.M., [1995.rus] 50-2520
- Problem of plastic pipeline construction in the oil and gas industry. Zaitsev, K.I., [1995.rus] 50-1076
- Recent advances in pipeline route selection and cost estimating methodology for arctic pipelines. Kreig, R.A., et al. [1990.eng] 50-1667
- Screw anchors economically control pipeline buoyancy in muskeg. Robertson, R., et al. [1995.eng] 50-4003
- Subsea pipe freeze first on East Brae. [1993.eng] 50-5441
- Thermal impact of a buried chilled gas pipeline. Raad, L., et al. [1996.eng] 50-6124
- Transportation of Alaska North Slope natural gas to market. Lannom, D.A., et al. [1996.eng] 50-6126
- Upheaval buckling of a pipeline in an arctic environment. Quimby, T.B., et al. [1996.eng] 50-6125
- Gas production**
- Analyzing the composition of tundra shrubs in Central Yamal. Arefev, S.P., [1994.rus] 50-265
- Cryolithozone structure in an oil and gas-bearing province supply. Dedeev, V.A., et al. [1990.rus] 50-1630
- Ecological monitoring of territories with oil and gas reserves in the cryolithozone. Antonov-Druzhinin, V.P., et al. [1990.rus] 50-1605
- Ecologization of technological processes in oil and gas construction in arctic regions. Shishov, V.N., et al. [1990.rus] 50-1606
- Engineering-ecological basis for the oil and gas development of the North. Mazur, I.I., [1990.rus] 50-1600
- Engineering-ecology safety during the operation of oil and gas facilities. Konstantinov, I.P., [1996.rus] 50-6845

Gas wells

Geochemistry

- Future of oil and gas in northern Alaska. Bird, K.J., et al. [1995,eng] 50-5642
- Geo-ecological problems of the oil and gas complex in Yamal. Mel'nikov, E.S., et al. [1990,rus] 50-1599
- Geocryological studies in arctic regions. Vol.3. Part 1: Environmental protection in the Arctic. Geokriologicheskii issledovaniia v arkticheskikh raionakh; mezhdunarodnyi simpozium, SSSR, IAmburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, August 1989), [1990,rus] 50-1597
- Huge Barents Sea gas field holds promise.[1991,eng] 50-4377
- Method for underground gasification of coal: Shiele, V.I., [1992,rus] 50-1943
- Policy issues associated with leasing of the Arctic National Wildlife Refuge, Alaska. Westermeyer, W.E., [1990,eng] 50-1607
- Project of gas liquefaction at the Yamal Peninsula: the problem and solution. Gritsenko, A.I., et al. [1996,eng] 50-4488
- Studying arctic and subarctic ecosystems of impact regions using remote monitoring methods. Tereshenkov, O.M., et al. [1994,rus] 50-278
- Transportation of Alaska North Slope natural gas to market. Lannom, D.A., et al. [1996,eng] 50-6126
- Gas wells**
- Biological rehabilitation of disturbed lands in the arctic gas-producing regions. Masalkin, S.D., [1991,eng] 50-1767
- Compositional simulation and performance analysis of the Prudhoe Bay Miscible Gas Project. McGuire, P.L., et al. [1991,eng] 50-1702
- Development of procedures for hot tap welding onto sour service pipelines. Felix, R.D., et al. [1991,eng] 50-1724
- Gas-producing units construction experience in the arctic regions. Zavizion, V.G., [1991,eng] 50-1763
- Huge Barents Sea gas field holds promise.[1991,eng] 50-4377
- Lost circulation material usage in coiled tubing remedial cementing at Prudhoe Bay. Krause, R.E., [1991,eng] 50-1706
- Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991. [1991,eng] 50-1696
- Thixotropic, crosslinking polymer/borate/salt plug: development and application. Powell, J.W., et al. [1991,eng] 50-1707
- Wellbore multiphase-flow correlation for the eastern operating area of Prudhoe Bay. Bradley, D.A., [1991,eng] 50-1728
- World Oil's handbook of arctic well completions. Goodman, M.A., [1978,eng] 50-2057
- Gases**
- Adsorption and photochemistry of dinitrogen tetroxide on low temperature ice layers. Riley, H., et al. [1996,eng] 50-4295
- Aircraft-generated aerosols and visible contrails. Kärcher, B., [1996,eng] 50-6544
- Alteration of volatile inventories by polar clathrate formation on Mars. Musselwhite, D., et al. [1995,eng] 50-2133
- First observational evidence for condensation of Io's SO₂ atmosphere on the nightside. Buratti, B.J., et al. [1995,eng] 50-2154
- Gas measurement with large Venturi tubes at Prudhoe Bay. Alaska. Metz, W.P., et al. [1991,eng] 50-1759
- Hydrogen sulfide forecasting techniques for the Kuparuk River Field. Frazer, L.C., et al. [1991,eng] 50-1729
- Laboratory infrared spectra (2.3-23μm) of SO₂ phases: applications to Io surface analysis. Nash, D.B., et al. [1995,eng] 50-1463
- Monitoring clathrate hydrate formation on ice surfaces. Pietrass, T., et al. [1995,eng] 50-2127
- Oil recovery from Alaskan tar sands using electromagnetic heating. Islam, M.R., et al. [1991,eng] 50-1760
- On the concentrations of O₂, N₂, and Ar in trapped gases from ice cores. Bender, M., et al. [1995,eng] 50-633
- Use of acrolein as a hydrogen sulfide scavenger in multiphase production. Howell, J.J., et al. [1991,eng] 50-1704
- See (also): Carbon dioxide; Hydrogen; Liquefied gases; Natural gas; Oxygen
- Gazetteers**
- Geographic names of the Antarctic. Second edition 1995. Alberts, F.G., ed. [1995,eng] 50-4860
- Geobotanical interpretation**
- Growth curves for calcium-tolerant lichens in the Canadian Rocky Mountains. McCarthy, D.P., et al. [1995,eng] 50-3330
- Lichens and rocks: a review. Easton, R.M., [1994,eng] 50-1252
- Paleorecords of plant biodiversity in the Alps. Ammann, B., [1995,eng] 50-3896
- Shrub ecology in an arctic landscape. Elvebakk, A., et al. [1995,eng] 50-6070
- Succession in the Hudson Bay lowland, northern Ontario, Canada. Klinger, L.F., et al. [1996,eng] 50-5491
- Geochemical cycles**
- Abundance and production of bacteria and viruses in the Bering and Chukchi Seas. Steward, G.F., et al. [1996,eng] 50-4158
- Accumulation rates of carbon in mires in Finland and implications for climate change. Tolonen, K., et al. [1995,eng] 50-6078
- Aircraft measurements of the stable carbon isotopic ratio of atmospheric methane over Siberia. Sugawara, S., et al. [1996,eng] 50-6051
- Arctic and alpine biodiversity: patterns, causes and ecosystem consequences.[1995,eng] 50-3888
- Arctic Flux Study: a regional view of trace gas release. Weller, G., et al. [1995,eng] 50-3809
- Arctic Ocean dimethyl sulfide seasonal variability. Leck, C., et al. [1996,eng] 50-4313
- Atmospheric CO₂ variations at Spitsbergen. Engardt, M., et al. [1996,eng] 50-3723
- Biogeochemical cycling in a seasonally anoxic lake. Hamilton-Taylor, J., et al. [1996,eng] 50-5818
- Biogeochemistry of sediment diagenesis at Kara Sea-Yenisey River boundary layer. Lein, A.I.U., et al. [1995,eng] 50-3535
- Bottom sediment chemical composition of the Kara Sea and estuaries. Gurvich, E.G., et al. [1995,eng] 50-3545
- Carbon cycle in the high arctic tundra of Spitsbergen. Wüthrich, C., et al. [1994,eng] 50-1595
- Causes and consequences of plant functional diversity in arctic ecosystems. Chapin, F.S., III, et al. [1995,eng] 50-3902
- Chemical oceanography of the Arctic and its shelf seas. Anderson, L.G., [1995,eng] 50-1164
- Contributions of snow and fog to Greenland ice sheet ionic variations. Bergin, M.H., et al. [1995,eng] 50-586
- Coupling PIXE and SEM/EDAX for characterizing atmospheric aerosols in ice-cores. Laj, P., et al. [1996,eng] 50-6324
- DOC storage in arctic seas: the role of continental shelves. Walsh, J.J., [1995,eng] 50-1165
- Ecological controls on peatland methane emissions in discontinuous permafrost. Bubier, J.L., et al. [1995,eng] 50-2803
- Ecosystem dynamics of the Bering and Chukchi Seas. Tsyban', A.V., [1995,eng] 50-3608
- Effects of sea ice cover on atmospheric methane over the Sea of Okhotsk. Lammers, S., et al. [1995,eng] 50-1147
- Estimates of North American tundra ecosystem biomass. Gilmanov, T.G., et al. [1995,eng] 50-4864
- Evaluation of respiration of Russian soils. Kudeiarov, V.N., et al. [1996,eng] 50-5086
- First results of ¹⁵N/¹⁴N ratios in nitrate from alpine and polar ice cores. Freyer, H.D., et al. [1996,eng] 50-3724
- Flux and preservation of organic carbon in Baffin Island fjords. Syvitski, J.P.M., et al. [1990,eng] 50-924
- Global chemical weathering on glacial time scales. Kump, L.R., et al. [1994,eng] 50-1239
- High-latitude forest ecophysiology during global warming. Kohlmaier, G.H., et al. [1995,eng] 50-771
- High-resolution ammonium ice core record covering a complete glacial-interglacial cycle. Fuhrer, K., et al. [1996,eng] 50-3448
- Ice age terrestrial carbon changes revisited. Crowley, T.J., [1995,eng] 50-1148
- Impact of global warming on tundra and forest ecosystems. Plöchl, M., et al. [1995,eng] 50-4865
- Land-water interactions: the influence of terrestrial diversity on aquatic ecosystems. Kling, G.W., [1995,eng] 50-3906
- Late Quaternary flux of eolian dust to the pelagic ocean. Rea, D.K., et al. [1994,eng] 50-1242
- Mathematical models of ecosystem carbon cycle feedback effects. Ryzhova, I.M., [1996,eng] 50-5087
- Methane flux along a Siberian tundra transect. Christensen, T.R., et al. [1995,eng] 50-1334
- Methane plumes near Bear Island, Barents Sea. Lammers, S., et al. [1995,eng] 50-748
- Nitrogen fixation in arctic vegetation and soils from Svalbard, Norway. Solheim, B., et al. [1996,eng] 50-4007
- Niwot Ridge snow fence experiment: biogeochemical response to changes in the seasonal snowpack. Brooks, P.D., et al. [1995,eng] 50-2421
- Nutrient availability in Alaskan upland forest sites. Yarie, J., et al. [1994,eng] 50-4798
- Nutrients in the Aral Sea in winter. Tsytsarin, A.G., [1995,eng] 50-5481
- Organic carbon storage in the soils of the Russian Federation. Orlov, D.S., et al. [1996,eng] 50-5085
- Overview of the Arctic Ocean Expedition of 1991 (AOE-91). Leck, C., et al. [1996,eng] 50-4312
- Paleoclimatic CO₂ record related to changes in oceanic thermohaline circulation. Figge, R.A., et al. [1995,eng] 50-1149
- Particle fluxes in the Kara Sea and Ob and Yenisey estuaries. Lisitsyn, A.P., et al. [1995,eng] 50-3543
- Patterns, cause, changes and consequences on biodiversity in arctic and alpine ecosystems. Chapin, F.S., III, et al. [1995,eng] 50-3907
- Plant effects on arctic ecosystem biogeochemical processes. Hobbie, S.E., [1995,eng] 50-3901
- Plausible hydrological scenario for the Bølling-Allerød atmospheric methane increase. Kalin, R.M., et al. [1996,eng] 50-4376
- Potential role of peatland dynamics in ice-age initiation. Klinger, L.F., et al. [1996,eng] 50-4587
- Response of soil carbon to climate change. McGuire, A.D., et al. [1995,eng] 50-4866
- Results from the 1994 Boreal Ecosystem-Atmosphere Study (BOREAS). Sellers, P., et al. [1995,eng] 50-4574
- Sediment flux along glaciated continental margins. Andrews, J.T., et al. [1994,eng] 50-1241
- Snowpack controls on soil nitrogen dynamics in the Colorado alpine. Brooks, P.D., et al. [1995,eng] 50-2420
- Sulphur biogeochemistry in meltwater ponds on the McMurdo ice shelf. De Mora, S.J., et al. [1996,eng] 50-3577
- Surficial weathering fluxes and their geochemical controls. Lerman, A., [1994,eng] 50-1238
- Winter-summer differences of carbon dioxide and oxygen in the Weddell Sea surface layer. Hoppema, M., et al. [1995,eng] 50-3006
- Geochemistry**
- Accelerator mass spectrometry: new applications. Synal, H.A., [1995,eng] 50-2309
- Acid stimulation of Endicott/Kekikuk Formation, North Slope, Alaska. Hsi, C.K.D., et al. [1991,eng] 50-1751
- Acquisition and processing of remote sensing data on ore deposits. Guo, H.D., et al. [1993,chi] 50-2380
- Alteration of volatile inventories by polar clathrate formation on Mars. Musselwhite, D., et al. [1995,eng] 50-2133
- Analysis of return drilling fluids in Prudhoe Bay oil wells. Fambrough, J.D., et al. [1991,eng] 50-1714
- Analysis on metamorphism of Ertix structural belt in northern Xinjiang. Sui, J.X., [1993,chi] 50-2370
- Antarctic bottom water formation and the global cadmium to phosphorus relationship. Frew, R.D., [1995,eng] 50-752
- Antarctic planktonic biomass seasonal variations. Skerratt, J.H., et al. [1995,eng] 50-1118
- Arsenic pollutants in Pechora Sea sediments. Loring, D.H., et al. [1995,eng] 50-1829
- Basal debris entrainment of Canadian arctic glaciers. Zdanowicz, C.M., et al. [1996,eng] 50-6247
- Basic characteristics and paleoclimatic evolution of Qarhan Salt Lake. Chen, K.Z., et al. [1986,chi] 50-1984
- Biogenic organic compounds in ponds on the McMurdo ice shelf. Schall, C., et al. [1996,eng] 50-3703
- Biogeochemistry of heavy metals in the Arctic. Dobrovolskii, V.V., [1995,rus] 50-3971
- Biological phosphorus removal: effect of low temperature. Kumar, P., et al. [1996,eng] 50-4755
- Biota of the western Siberian Subarctic as an indicator of the ecological-geochemical situation in the region. Savchenko, N.V., [1994,rus] 50-298
- Carbonate minerals in glacial sediments: geochemical clues to palaeoenvironment. Fairchild, I.J., et al. [1990,eng] 50-925
- Carboniferous siliceous rock and its relation to metallic sulfide deposits in northern Xinjiang. Yang, W.H., et al. [1993,chi] 50-2358
- Changes in the level of industrial air pollutants in peat bogs in the cryolithozone. Evseev, A.V., et al. [1996,rus] 50-6853
- Characteristics of bituminoids of dispersed organic matter in permafrost and sub-cryogenic deposits. Tsarev, V.P., et al. [1989,rus] 50-2258
- Chemical correlates of Hg and methyl-Hg in northern Wisconsin lake waters under ice-cover. Watkins, C.J., et al. [1995,eng] 50-2125
- Chemical sputtering could produce sodium vapor and ice on Mercury. Potter, A.E., [1995,eng] 50-3093
- Chemistry of salt minerals and their depositional environment in the Qaidam Basin. Dong, J.H., [1986,chi] 50-1988
- Clay mineral signature of the NW Atlantic Boundary Undercurrent. Fagel, N., et al. [1996,eng] 50-4822
- Cleansing role of clay-ill flocculation in shoreline sediments following an oil spill. Bragg, J.R., et al. [1995,eng] 50-3918
- Climate change in the recent evolution of a pro-glacial lake. Webster, J., et al. [1996,eng] 50-3704
- CO₂ flux through a Wyoming seasonal snowpack: diffusional and pressure pumping effects. Massman, W., et al. [1995,eng] 50-2400
- Comparative analytical techniques for glacial diamicton studies. Walden, J., et al. [1996,eng] 50-6537
- Contributions to antarctic research IV. Elliot, D.H., ed. et al. [1995,eng] 50-1190
- Controls on CH₄ flux from an Alaskan boreal wetland. Moosavi, S.C., et al. [1996,eng] 50-6053
- Damming James Bay: II. Impacts on coastal marshes. Price, J.S., et al. [1992,eng] 50-5031
- Deposition of organic matter in the Norwegian-Greenland Sea during the past 2.7 million years. Wagner, T., et al. [1995,eng] 50-2016
- Development of an Alaskan North Slope soils database for drill cuttings reclamation. Schumacher, J.P., et al. [1991,eng] 50-1722
- Diatoms in South Pole ice: implications for eolian contamination of Sirius Group deposits. Kellogg, D.E., et al. [1996,eng] 50-3387
- Dispersal of metal-contaminated sediments in an arctic river. Sear, D., et al. [1996,eng] 50-6516
- Distribution and biomass of Greenland shelf epibenthic megafauna. Piepenburg, D., et al. [1996,eng] 50-5045
- Distribution of metals in Laptev Sea pore waters. Langner, C., [1995,eng] 50-2103
- Distribution of trace elements in the Laptev Sea. Hölemann, J.A., et al. [1995,eng] 50-2098
- Effects of fire in the taiga on the environment. Lotspeich, F.B., et al. [1971,eng] 50-3244
- Effects of steam quenching on cyclic steam stimulation at Cold Lake, Alberta. Ho, D.W., et al. [1991,eng] 50-1703
- Electrical and magnetic methods for gold exploration. Shi, K.F., et al. [1993,chi] 50-2387
- Electrolytical processes in dirty planetary ices. Drobyshevskii, E.M., et al. [1995,eng] 50-655
- Enhanced dating procedures for arctic Quaternary marine deposits. Goodfriend, G.A., et al. [1996,eng] 50-4580
- Ertix volcanic rocks and tectonic evolution. Yu, X.Y., et al. [1993,chi] 50-2364
- Evidence for Heinrich layers off Portugal (Tore Seamount: 39°N, 12°W). Lebreiro, S.M., et al. [1996,eng] 50-5220
- Evidence of paleoclimatic snow melt in lacustrine mountain deposits. Norris, R.D., et al. [1996,eng] 50-5082
- Evolution of factors affecting gas transmissivity of snow in the boreal forest. Hardy, J.P., et al. [1995,eng] 50-2398

Geochemistry

Geochemistry

- Formation of amino acid precursors in cometary ice environments by cosmic radiation. Kobayashi, K., et al. [1995,eng] 50-652
- Formation of condensates on dust in interstellar clouds. Duley, W.W., et al. [1995,eng] 50-3290
- Formation of organic molecules in astronomical ices. Schutte, W.A., [1995,eng] 50-653
- Genetic types of granitoids and their mineralization in northern Xinjiang. Wang, Z.G., et al. [1993,chi] 50-2359
- Geochemical analyses of Exxon Valdez oil spill. Bence, A.E., et al. [1996,eng] 50-6339
- Geochemical correlation between coarse and fine fractions of till in southern Finland. Tarvainen, T., [1995,eng] 50-2705
- Geochemical criterion for recognition of Pleistocene ice rafting events. Thomson, J., et al. [1995,eng] 50-1250
- Geochemical evolution and paleoclimatology of a salt lake in the Qaidam Basin. Han, F.Q., et al. [1995,chi] 50-4126
- Geochemical fields in the cryolithozone. Makarov, V.N., [1996,rus] 50-6381
- Geochemical process responses to potential Scandinavian climatic change. Dixon, J.C., et al. [1995,eng] 50-4194
- Geochemical studies of layered ground ice and frozen rocks (from work on Ney-To Lake). Dubikov, G.I., [1983,rus] 50-312
- Geochemistry and mineralogy of Kap Edvard Holm waters. Brandiss, M.E., et al. [1995,eng] 50-2056
- Geochemistry of Lena River suspended sediments. Rachold, V., [1995,eng] 50-2095
- Geochemistry of niveo-eolian sediments in Spitsbergen. Görniak, A., et al. [1993,eng] 50-2200
- Geochemistry of organic matter in oil- and gas-bearing sediments in Western Yakutia. Bodunov, E.I., ed. [1984,rus] 50-5006
- Geochemistry of the Ulungur-Zhaisangpo tectonic melange belt. Liu, W., et al. [1993,chi] 50-2366
- Geochemistry of volcanic ashes from Greenland Basin. Haase, K.M., et al. [1996,eng] 50-5267
- Geological evolution and diagenetic mineralization in Xinjiang. Tu, G.Z., [1993,chi] 50-2351
- Geological specifics in the natural dynamics of the subarctic cryolithozone. Oberman, N.G., [1996,rus] 50-6850
- Geology and mineralogy of some important nonmetal deposits. Cao, J.C., et al. [1993,chi] 50-2379
- Geology of the Red Mountain gold deposit in British Columbia. Greig, C.J., et al. [1994,eng] 50-84
- Geometry and energy calculations of the HS-III polyhedral gas hydrate framework. Kosiakov, V.I., et al. [1995,eng] 50-3676
- Geophysical model of ore-bearing rock in Xinjiang. Zhang, S.Z., et al. [1993,chi] 50-2383
- Geophysical prospecting methods for Cu-Ni minerals. Zhang, S.Z., et al. [1993,chi] 50-2381
- Glacial deposit geochemistry at a Manitoba mining site. Nielsen, E., et al. [1991,eng] 50-3911
- Glacial dispersal of mineralized bedrock mercury. Plouffe, A., [1995,eng] 50-882
- Glacier properties on Mt. Qogir, Karakorum. Qin, D.H., et al. [1994,eng] 50-1538
- Gold mineralization in western Junggar. Shen, Y.C., et al. [1993,chi] 50-2371
- Groundwater flow through Ontario glacial deposits. Gerber, R.E., et al. [1996,eng] 50-6750
- Heavy metals in the podsol desert soils of the Fukang region. Xie, Y.Y., et al. [1991,chi] 50-5133
- Hemispheric climate relations revealed by bottom sediment/ice core correlations. Charles, C.D., et al. [1996,eng] 50-6632
- High pressure-differential thermal analysis of ice-water equilibrium at 1.5-5.0 GPa. Xu, Y.S., et al. [1995,eng] 50-3392
- High-alkaline intrusive rock belts in northern Xinjiang. Wang, Z.G., et al. [1993,chi] 50-2362
- Holocene sediments of the Russian east-arctic seas. Ashin, D.S., et al. [1995,eng] 50-2104
- Iceland paleoclimatology dynamics from volcanic ash in lacustrine deposits. Björck, S., et al. [1992,eng] 50-2547
- Impact of Cenozoic uplift on offshore Norwegian hydrocarbon exploration. Doré, A.G., et al. [1996,eng] 50-5327
- Implication of glacial dispersal patterns for mineral exploration. McClenaghan, M.B., et al. [1996,eng] 50-6515
- Influence of pocket gophers on the status of nutrients in alpine soils. Litaor, M.I., et al. [1996,eng] 50-4951
- Infrared spectroscopy of organics of planetological interest at low temperatures. Khanna, R.K., [1995,eng] 50-656
- Ion irradiation of astrophysical ices. Strazzulla, G., et al. [1995,eng] 50-3022
- Iron(II) in rainwater, snow, and surface seawater from a coastal environment. Zhuang, G.S., et al. [1995,eng] 50-979
- Isotope geochemistry and crustal evolution of northern Xinjiang. Hu, A.Q., et al. [1993,chi] 50-2353
- Isotopic chronologies of Chukchi Sea continental shelf sediment fluxes. Baskaran, M., et al. [1995,eng] 50-1805
- Laptev Sea organic carbon surface sediments. Stein, R., et al. [1995,eng] 50-2097
- Late Cenozoic geology and environmental evolution of the Qaidam Basin in Qinghai. [1986,chi] 50-1981
- Late Holocene ice core history of the TAM. Mayewski, P.A., et al. [1995,eng] 50-1191
- Late Pleistocene environment of north China. Zheng, H.H., et al. [1991,chi] 50-1844
- Late Pleistocene sedimentary environment near Urumqi. Han, S.T., et al. [1985,chi] 50-1998
- Late Quaternary environmental history of Bátorlúget, N.E. Hungary. Willis, K.J., et al. [1995,eng] 50-2165
- Latitudinal variations in lichen biology. Schipperges, B., et al. [1995,eng] 50-3781
- Lipid geochemistry of the Kara Sea bottom sediments. Beliaeva, A.N., et al. [1996,eng] 50-4867
- Lithium and boron geochemistry of salt lakes in the Qaidam Basin. Zheng, X.Y., [1986,chi] 50-1992
- Loess sediment isotopic properties related to paleoclimate. Li, C.Y., et al. [1995,eng] 50-1555
- Mafic intrusive body bearing Cu-Ni mineralization in Xinjiang. Yuan, Q.L., et al. [1993,chi] 50-2376
- Magmatic activities and its relation to tectonic setting and gold mineralization in western Junggar. Jin, C.W., et al. [1993,chi] 50-2360
- Metallogenic geology and geochemistry related to Ertix volcanism. Liu, T.G., et al. [1993,chi] 50-2375
- Metallogenic mechanism of Cu in Altay. Li, Z.C., [1993,chi] 50-2374
- Metallogenic mechanism of tungsten deposit in Alatau. Wang, K.R., et al. [1993,chi] 50-2373
- Methanogenesis at low temperatures by microflora of tundra wetland soil. Kotsiurbenko, O.R., et al. [1996,eng] 50-5156
- Microbial sea ice ecology at a coastal antarctic site. Archer, S.D., et al. [1996,eng] 50-5456
- Mineralogical and chemical analysis of Taklimakan Desert soil samples. Ishii, T., et al. [1991,jpn] 50-1428
- Muon μ -particle: a new technique for mineral exploration. Zhou, D.Z., [1993,chi] 50-2382
- Natural and technogenic water and sediment supply to the Laptev Sea. Alabian, A.M., et al. [1995,eng] 50-2094
- Neutral and ionized PAHs: contribution to the interstellar extinction. Salama, F., et al. [1995,eng] 50-3021
- New advances in solid earth sciences in northern Xinjiang. Tu, G.Z., ed. [1993,chi] 50-2350
- New improvement of mathematical geology applying in gold mineralization. Shen, B.M., et al. [1993,chi] 50-2386
- New indicator of glacial dispersal: lead isotopes. Bell, K., et al. [1995,eng] 50-1857
- New radiocarbon dates for the Vedde ash and the Saksunarvatn ash from western Norway. Birks, H.H., et al. [1996,eng] 50-4576
- New regional mapping project in Vernon map area, British Columbia. Thompson, R.I., et al. [1994,eng] 50-85
- No evidence for extreme, long term warming in early Pliocene sediments of the Southern Ocean. Burckle, L.H., et al. [1996,eng] 50-6627
- No iridium anomaly after the 1908 Tunguska impact: evidence from a Greenland ice core. Rasmussen, K.L., et al. [1995,eng] 50-2741
- Observations of molecular ices. Whittet, D.C.B., [1993,eng] 50-3363
- Oceanic methane hydrates: a "frontier" gas resource. Max, M.D., et al. [1996,eng] 50-4799
- Oil-soluble resin-diverting agents in Prudhoe Bay acidizing operations. Strasser, J.E., et al. [1991,eng] 50-1698
- Ophiolite belts and their genetic environment in western Junggar. Zhang, C., et al. [1993,chi] 50-2355
- Organic carbon in late Quaternary Arctic Ocean sediments. Schubert, C.J., [1995,ger] 50-2454
- Organic compounds produced by photolysis of simulated cometary ices. Bernstein, M.P., et al. [1995,eng] 50-2724
- Organic sedimentation in an arctic delta. Peulvé, S., et al. [1996,eng] 50-5819
- Origin of salt in lakes and ponds of the McMurdo Dry Valleys. Takamatsu, N., et al. [1995,eng] 50-3697
- Origin of sylvests and salts in the Qaidam Basin. Yang, Q., [1986,chi] 50-1987
- Overlapping mineralization of Karatongki Cu-Ni deposit. Zhan, X.Z., [1993,chi] 50-2377
- Paleoclimatic change from Lake Baikal sediments. Edgington, D.N., et al. [1996,eng] 50-6633
- Paleoecological study of fire-induced lake water acidity variations. Korhola, A., et al. [1996,eng] 50-5020
- Paleozoic petroleum source rocks in Saskatchewan and Manitoba. Osadetz, K.G., et al. [1995,eng] 50-232
- Paleozoic stratigraphy of ophiolites and their tectonic setting in Xinjiang. Wu, H.R., et al. [1993,chi] 50-2361
- Pb isotope province and geochemical prospecting in northern Xinjiang. Zhu, B.Q., et al. [1993,chi] 50-2354
- Pb-Zn-Au deposits in Carboniferous strata of northern Xinjiang. Yang, W.H., et al. [1993,chi] 50-2357
- Permafrost distribution in the southern circumpolar region. Bockheim, J.G., [1995,eng] 50-666
- Petroleum-producing sequences in the Phanerozoic deposits of the arctic islands. Daniushevskaia, A.I., [1996,eng] 50-5704
- Physical and geochemical properties across the Atlantic/Pacific water mass front in the southern Canadian Basin. McLaughlin, F.A., et al. [1996,eng] 50-2845
- Plate and terrain tectonics of northern Xinjiang. Cao, R.L., et al. [1993,chi] 50-2352
- Preliminary stratigraphy from Lansing map area, Yukon Territory. Roots, C., et al. [1994,eng] 50-80
- Primary productivity and microbial variations in the Chukchi Sea. Cota, G.F., et al. [1996,eng] 50-5457
- Prince William Sound, Alaska beach tar ball origins. Kvenvolden, K.A., et al. [1995,eng] 50-1864
- Principal mineral resources and their distribution on the Qinghai-Xizang Plateau. Xu, Z.Y., et al. [1991,chi] 50-2295
- Production and chemical analysis of cometary ice tholins. McDonald, G.D., et al. [1996,eng] 50-5833
- Properties of antarctic maritime and coastal soils. Böller, M., et al. [1995,eng] 50-2567
- Prospects for using geochemical methods in forecasting and evaluating technogenic talik zones. Tregubov, O.D., [1996,rus] 50-6855
- Pu, ^{137}Cs and excess ^{210}Pb in Russian arctic sediments. Baskaran, M., et al. [1996,eng] 50-5606
- Quaternary geology of the Buchans area, Newfoundland: implications for mineral exploration. Klassen, R.A., et al. [1996,eng] 50-6634
- Radiation chemistry of ices of planetological interest at low temperature. Strazzulla, G., [1995,eng] 50-654
- Radiocarbon balances of two Tibetan Lakes from 13,000 BP. Fontes, J.C., et al. [1993,eng] 50-5027
- Radiocarbon geochemistry of modern and ancient arctic lake systems, Baffin Island, Canada. Abbott, M.B., et al. [1996,eng] 50-5190
- Rare earths in the granitoids of the Altay region. Zhao, Z.H., et al. [1993,chi] 50-2368
- Regional geochemistry of Alatau region. Li, S.G., et al. [1993,chi] 50-2369
- Regional metallogenic model of Alatau region. Man, F.S., et al. [1993,chi] 50-2372
- Remote sensing for mineral exploration in northern Xinjiang. Guo, H.D., et al. [1993,chi] 50-2384
- Requirements for heap leaching under permafrost conditions. Pitsyn, A.B., [1995,eng] 50-418
- Research on clay minerals in salt lakes of China. Xu, C., [1993,chi] 50-1850
- Review of the geochemistry of methane in natural gas hydrate. Kvenvolden, K.A., [1995,eng] 50-6229
- Runoff composition in a bedrock catchment watershed. Clow, D.W., et al. [1995,eng] 50-2415
- Russian-German cooperation: Laptev Sea system. Kassens, H., ed. et al. [1995,eng] 50-2059
- Salt lakes of Inner Mongolia. Zheng, X.Y., et al. [1992,chi] 50-1849
- Salt lakes of Qaidam Basin. Zhang, P.X., et al. [1987,chi] 50-1845
- Seasonal variability in CO_2 transport through snow in a boreal forest. Winstan, G.C., et al. [1995,eng] 50-2399
- Seasonal variations in antarctic sea ice brine chemistry. Gleitz, M., et al. [1995,eng] 50-1117
- Sedimentary environment of the Laptev Sea: preliminary results of the TRANSDRIFT II Expedition. Dehn, J., et al. [1995,eng] 50-2100
- Sediments from the southern Weddell Sea. Melles, M., et al. [1995,eng] 50-5442
- Selected aspects of the physical oceanography and particle fluxes in fjords of northern Norway. Wassmann, P., et al. [1996,eng] 50-5571
- Selenium in the saline podsol and desert soils of the northern foothills of Tian Shan. Wang, Z.Q., [1991,chi] 50-5131
- Sequence of glacial ice flows in Abitibi-Timiskaming. Veilleux, J.J., et al. [1996,eng] 50-2499
- Sino-Kazakhstan-Mongolia border area tectonics from satellite data. Yang, D.C., et al. [1993,chi] 50-2385
- Snowmelt induced chemical changes in seven streams in the Sierra Nevada, California. Melack, J.M., et al. [1995,eng] 50-2414
- Soil-to-snow movement of synthetic organic compounds in natural snowpack. Hogan, A., et al. [1995,eng] 50-2403
- Solid phase sedimentation in the Barents Sea. Hulth, S., et al. [1996,eng] 50-6723
- Some geological problems regarding salt lakes on the Qinghai-Xizang Plateau. Zhang, P.X., [1986,chi] 50-1985
- Some lithological-geochemical features of modern bottom sediments of the Laptev Sea shelf. Iakovlev, A.V., [1995,eng] 50-2101
- Spatial distribution of snow chemical load at the tundra-taiga transition. Pomeroy, J.W., et al. [1995,eng] 50-2412
- Spectroscopy of ice clathrate decomposition to air bubbles. Pauer, F., et al. [1996,eng] 50-3067
- Stable isotopic character of mineralization of some deposits in northern Xinjiang. Zhang, G.X., et al. [1993,chi] 50-2378
- Statistical analysis of lithology of Arctic Ocean sediments. Darby, D.A., et al. [1996,eng] 50-5025
- Stratigraphic and structural setting of mineral deposits in British Columbia. Davies, A.G.S., et al. [1994,eng] 50-83
- Stratigraphy and palynology of boreal peat in French bogs. Juvigné, E., et al. [1995,fre] 50-4879
- Study on the dynamics of chemical elements in desert saline soil-plant systems. Wang, Z.Q., et al. [1991,chi] 50-5132
- Subglacial chemical erosion in a Swiss mountain glacier. Brown, G.H., et al. [1996,eng] 50-6236
- Sulfide occurrences in northwestern British Columbia. Gunning, M.H., et al. [1994,eng] 50-82
- Surface sediment mineralogy of the Laptev Sea. Wahsner, M., [1995,eng] 50-2099
- Surficial weathering fluxes and their geochemical controls. Lerman, A., [1994,eng] 50-1238
- Tectonic framework of the Teslin region, southern Yukon Territory. Gordey, S.F., et al. [1994,eng] 50-81
- Thermal conductivity of model ice comet surfaces. Ibadinov, Kh.I., et al. [1987,eng] 50-1770
- Trace element geochemistry of volcanic rocks along the Ertix River. Mei, H.J., et al. [1993,chi] 50-2365
- U.S.G.S. Geotechnical Investigation—Beaufort Sea, Alaska-1979, Vol.1. Bruggers, D.E., et al. [1979,eng] 50-3313
- Use of acrolein as a hydrogen sulfide scavenger in multiphase production. Howell, J.J., et al. [1991,eng] 50-1704

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- Weathering processes in marbles from Independence and Patriot Hills. Yoshikawa, K., et al. [1995,eng] 50-4383
- X ray fluorescence spectrum analysis of the total mineral content of soils. Chen, T.M., et al. [1991,chi] 50-5135
- Geochronology**
- 10-century comparison of prominent bipolar volcanic events in ice cores. Langway, C.C., Jr., et al. [1995,eng] 50-583
- 110,000-yr record of explosive volcanism from the GISP2 (Greenland) ice core. Zielinski, G.A., et al. [1996,eng] 50-4575
- 12,000 year radiocarbon date of deglaciation from the continental divide of northwestern Montana. Carrara, P.E., [1995,eng] 50-3299
- 6 ka BP reconstruction for Newfoundland from pollen records. Macpherson, J.B., [1995,eng] 50-1459
- Age of pre-late-Wisconsin glacial-estuarine sedimentation. Bristol Bay, Alaska. Kaufman, D.S., et al. [1996,eng] 50-4586
- Alpine "Ice-man" and Holocene climatic change. Baroni, C., et al. [1996,eng] 50-6708
- Alpine glacial history reconstruction in Wyoming and Argentina. Gosse, J.C., [1994,eng] 50-672
- Alpine glaciers in the Little Ice Age—catalogue and C^{14} documentation. Zumbühl, H.J., et al. [1990,ger] 50-3398
- Analysis on metamorphism of Ertix structural belt in northern Xinjiang. Sui, J.X., [1993,chi] 50-2370
- Atlantic Ocean sedimentary evidence for Pleistocene ice rafting. Robinson, S.G., et al. [1995,eng] 50-1110
- Baltic Ice Lake. Brunnberg, L., [1995,eng] 50-513
- Basic features of glacial landforms in the Minshan. Tang, B.X., et al. [1994,eng] 50-4783
- Bedrock geologic research in Glacier Bay National Park. Brew, D.A., et al. [1995,eng] 50-3732
- Bedrock surface weathering on Finnish fjell summits. McCarroll, D., et al. [1996,eng] 50-5825
- Calibration of radiocarbon ages and the interpretation of paleoenvironmental records. Barlein, P.J., et al. [1995,eng] 50-2018
- Carboniferous litho facies-paleogeography and its tectonic condition in northern Xinjiang. Wei, Z.L., et al. [1993,chi] 50-2367
- Carboniferous siliceous rock and its relation to metallic sulfide deposits in northern Xinjiang. Yang, W.H., et al. [1993,chi] 50-2358
- Cenozoic deposition in the Nansen Basin, Barents Sea. Vågnes, E., [1996,eng] 50-5313
- Cenozoic deposition on the Svalbard continental shelf. Solheim, A., et al. [1996,eng] 50-5312
- Cenozoic erosion and sediment yield in the drainage area of the Storfjorden Fan. Hjelstuen, B.O., et al. [1996,eng] 50-5310
- Cenozoic Northern Hemisphere glaciations. Thiede, J., et al. [1995,eng] 50-5240
- Cenozoic plants and climates of the Arctic. Boulter, M.C., ed., et al. [1994,eng] 50-892
- Cenozoic shelf erosion of the Barents Sea margin. Fiedler, A., et al. [1996,eng] 50-5309
- Cenozoic uplift of Fennoscandia inferred from a study of the mid-Norwegian margin. Stuevold, L.M., et al. [1996,eng] 50-5324
- Central Appalachian periglacial geomorphology: a field excursion guidebook. Clark, G.M., ed. [1992,eng] 50-3712
- Changes in the Late Cenozoic environment of the Gonghe Basin in Qinghai. Xu, S.Y., [1986,chi] 50-1983
- Characteristics of the post-glacial advance and retreat in Mount Xixia Bangma region. Zheng, B.X., [1982,chi] 50-6606
- Chronology of late Wisconsin ice retreat from the western Ross Sea, Antarctica. Licht, K.J., et al. [1996,eng] 50-3814
- Chronology of Upper Pleistocene stratified slope-waste deposits in central Italy. Colorti, M., et al. [1996,eng] 50-6700
- Climatic changes in Europe during the last glacial/interglacial transition. Walker, M.J.C., [1995,eng] 50-502
- Climatic implications of Norwegian Neoglaciation glacier maximum. Mathews, J.A., [1991,eng] 50-3306
- Collected papers on the Quaternary in arid region Xinjiang. Xinjiang University, Xinjiang Geology and Mineral Resources Bureau, Xinjiang Branch Academy of Sciences. [1985,chi] 50-1995
- Comment on paper by Baumann et al. Forsström, L., et al. [1996,eng] 50-6709
- Contributions to research on Tibet. Portge, K.H., ed., et al. [1994,ger] 50-4774
- Contributions to the glacial history of Liefdefjord/NW Spitsbergen. Furrer, G., [1994,ger] 50-1579
- Correlation of Cenozoic dinoflagellate and pollen records. Hubbard, R.N.L.B., et al. [1994,eng] 50-897
- Cretaceous and Tertiary deposits in southern Xizang. Zhou, Z.C., et al. [1992,chi] 50-1502
- Cretaceous to recent extension in the Bering Strait region. Alaska. Dumitru, T.A., et al. [1996,eng] 50-3714
- Dating analysis of Norwegian Neoglaciation moraines. Mathews, J.A., et al. [1996,eng] 50-4375
- Dating of Norwegian Pleistocene rock sediments. Balashov, I.U.A., et al. [1995,eng] 50-5534
- Dating of soil development on Sierra Nevada moraines. Bach, A.J., et al. [1996,eng] 50-4630
- Deep ice stirs debate on climate stability. Monastersky, R., [1993,eng] 50-4800
- Deglaciation chronology of West Greenland moraines. Van Tatenhove, F.G.M., et al. [1996,eng] 50-5187
- Depositional sequence of the Quaternary period in Xinjiang. Peng, X.L., [1985,chi] 50-2005
- Developmental conditions of the Farnham bog, Québec. Lavoie, M., et al. [1995,fre] 50-4885
- Diatoms in South Pole ice: implications for eolian contamination of Sirius Group deposits. Kellogg, D.E., et al. [1996,eng] 50-3387
- Dinoflagellate cysts and climate change through the Neogene. Harland, R., [1994,eng] 50-899
- Discussion on the division and correlation of Holocene series in Xinjiang. Bai, M.X., [1985,chi] 50-2007
- Distribution of ice age sediments in northern Germany. Ehlers, J., [1990,ger] 50-1788
- Division and duration of ice age dating from global comparisons. Brunnacker, K., [1990,ger] 50-1784
- Double wedging model for the Qinghai-Xizang Plateau. Zheng, J.D., [1992,chi] 50-1505
- Dynamics of the last glaciation in eastern Svalbard. Salvigsen, O., et al. [1995,eng] 50-4714
- Early Holocene moraine bank sedimentology of East Greenland. Huddart, D., et al. [1990,eng] 50-929
- Early Pleistocene glaciation in the Qinling Mountains of China. Rost, K.T., [1992,ger] 50-1682
- Early Pleistocene strata and the Quaternary lower boundary in northern Xinjiang. Lu, S.A., [1985,chi] 50-2006
- Early studies on stratified drift. Jopling, A.V., [1975,eng] 50-4807
- Eastern Canadian Arctic at ca. 6 ka BP: a time of transition. Williams, K.M., et al. [1995,eng] 50-1450
- Eemian interglacial and its termination. Dansgaard, W., et al. [1981,eng] 50-3622
- Enhanced dating procedures for arctic Quaternary marine deposits. Goodfriend, G.A., et al. [1996,eng] 50-4580
- Erosion of the Laurentide region of North America by glacial and glaciofluvial processes. Bell, M., et al. [1990,eng] 50-1789
- Ertix volcanic rocks and tectonic evolution. Yu, X.Y., et al. [1993,chi] 50-2364
- Estimating long-term rockfall accretion rates by lichenometry. Luckman, B.H., et al. [1995,eng] 50-4836
- Evaluation of controls on ice-berg-calving glaciers. Wiles, G.C., et al. [1995,eng] 50-3324
- Evidence of Holocene sea level rise from Nova Scotian bottom sediments. Scott, D.B., et al. [1995,eng] 50-4528
- Evidence of Pleistocene drainage of a Scandinavian ice lake. Bergsten, H., et al. [1992,eng] 50-2555
- Evolution and age of shorelines along Woodford, northern Spitsbergen. Brückner, H., et al. [1994,eng] 50-1582
- Evolutional and genetic mechanism of tectonics of Altay area. Zhang, X.B., et al. [1993,chi] 50-2363
- Final stages in Laurentide ice sheet collapse, Hudson Strait. Andrews, J.T., et al. [1995,eng] 50-6556
- First appearance of Himalayas and its relation to global climatic events. Xu, Q.Q., [1992,chi] 50-1504
- Fluctuations of the South Patagonian ice-field during the last glaciation and the Holocene. Marden, C.J., et al. [1995,eng] 50-6211
- Fluctuations of the Vestfonna Ice Margin. Donner, J.J., et al. [1995,eng] 50-4505
- Foraminiferal evidence for Greenland environmental change. Jennings, A.E., et al. [1995,eng] 50-6079
- Fossil charophytes from the Qaidam Basin. Tang, L.H., et al. [1991,chi] 50-2032
- Fossilization potential of arctic fjord and continental shelf benthic macrofaunas. Aitken, A.E., [1990,eng] 50-923
- Freshwater sub-ice antarctic lake. Kapitsa, A.P., et al. [1996,eng] 50-5213
- Genetic types of granitoids and their mineralization in northern Xinjiang. Wang, Z.G., et al. [1993,chi] 50-2359
- Geochemistry of the Ulungur-Zhaisangpo tectonic melange belt. Liu, W., et al. [1993,chi] 50-2366
- Geological evolution and diagenetic mineralization in Xinjiang. Tu, G.Z., [1993,chi] 50-2351
- Geology and mineralogy of some important nonmetal deposits. Cao, J.C., et al. [1993,chi] 50-2379
- Geology and tectonic evolution of Germanialhavøya, Spitsbergen. Piepjohn, K., et al. [1994,ger] 50-1577
- Geometry and genesis of the glacialic sediments in the southern Barents Sea. Vorren, T.O., et al. [1990,eng] 50-928
- Geoscientific Spitsbergen Expedition 1990-1992. Blümel, W.D., ed. [1994,ger] 50-1574
- Geotectonic evolution of the Qinghai-Xizang Plateau. Chang, C.F., [1992,chi] 50-1498
- Glacial drift and the glacial epoch in the Quaternary period of Xinjiang. Peng, X.L., [1985,chi] 50-2000
- Glacial evidence of climatic cooling during the Younger Dryas. Osborn, G.D., et al. [1995,eng] 50-4625
- Glacial flow systems in the zone of confluence between the Scandinavian and Novaya Zemlya ice sheets. Punkari, M., [1995,eng] 50-2130
- Glacial geomorphic features in the northern Barents Sea. Solheim, A., et al. [1990,eng] 50-927
- Glacial overdeepened valleys in the Austrian Alps. Van Husen, D., [1990,ger] 50-1790
- Glacially-fed North Sea Quaternary sedimentation. King, E.L., et al. [1996,eng] 50-4877
- Glacially-influenced sedimentation on the Hebridean slope. Stoker, M.S., [1990,eng] 50-933
- Glacially-influenced Yakataga Formation on Middleton I. Eyles, C.H., et al. [1990,eng] 50-934
- Glacier fluctuations and sediment yields in Glacier Bay, Cai, J.K., et al. [1995,eng] 50-3733
- Glacier retreat and raised beaches at Three Sisters Point. Birkenmajer, K., [1995,eng] 50-3937
- Glaciers and climate of the mountains of the former USSR during the Neoglacial. Seretbraniy, L.R., et al. [1996,eng] 50-6552
- Glacimarine deposits in southwestern Sweden. Stevens, R.L., [1990,eng] 50-930
- Glacimarine sediments from the Celtic Sea. Scourse, J.D., et al. [1990,eng] 50-932
- Glacio-isostatic implications of Swedish Holocene shore displacement. Berglund, M., [1995,eng] 50-3367
- Glaciofluvial and glaciolacustrine sedimentation. Jopling, A.V., ed., et al. [1975,eng] 50-4806
- Global glacial chronologies and causes of glaciation. Calkin, P.E., et al. [1995,eng] 50-3582
- Gold mineralization in western Junggar. Shen, Y.C., et al. [1993,chi] 50-2371
- Gondwana stratigraphy in the Qinghai-Xizang Plateau. Yin, J.X., [1992,chi] 50-1503
- Great Qinghai-Xizang ice sheet. Han, T.L., [1991,chi] 50-2176
- Greenland and United Kingdom paleotemperatures comparisons from Greenland snow accumulation rates. Lowe, J.J., et al. [1995,eng] 50-1082
- Growth and decay of the Laurentide Ice Sheet and comparisons with Fennoscandia. Ives, J.D., et al. [1990,eng] 50-1787
- Growth curves for calcium-tolerant lichens in the Canadian Rocky Mountains. McCarthy, D.P., et al. [1995,eng] 50-3330
- Gulf of Alaska paleoclimatological influence on marine ecology. Lagoe, M.B., et al. [1996,eng] 50-6625
- Gulf of Mexico meltwater influx during Laurentide deglaciation. Marchitto, T.M., et al. [1995,eng] 50-340
- Hemispheric climate relations revealed by bottom sediment/ice core correlations. Charles, C.D., et al. [1996,eng] 50-6632
- High-alkaline intrusive rock belts in northern Xinjiang. Wang, Z.G., et al. [1993,chi] 50-2362
- History and drainage of large ice-dammed lakes along the Laurentide ice sheet. Teller, J.T., [1995,eng] 50-503
- Holocene climate fluctuations and geomorphic impact of extreme events in Svalbard. André, M.F., [1995,eng] 50-4192
- Holocene environmental changes in a Tibetan lake basin. pt. 1. Fontes, J.C., et al. [1996,eng] 50-5090
- Holocene environmental changes in a Tibetan lake basin. pt. 2. Van Campo, E., et al. [1996,eng] 50-5091
- Holocene environmental changes in a Tibetan lake basin. pt. 4. Gasse, F., et al. [1996,eng] 50-5093
- Holocene glacial chronology in Patagonia: Tyndall and Upsala glaciers. Aniya, M., [1995,eng] 50-2806
- Holocene shoreline displacement in southernmost Spitsbergen. Ziaja, W., et al. [1995,eng] 50-5537
- Holocene variations of Ameghino Glacier, southern Patagonia. Aniya, M., [1995,eng] 50-6081
- Ice age research. Liedtke, H., ed. [1990,ger] 50-1780
- Ice age significance of Rhine terraces. Boenigk, W., [1990,ger] 50-1786
- Ice drift reconstructions from ice rafted coal fragments. Bischof, J., et al. [1990,eng] 50-926
- Ice rafting history from the Spitsbergen ice cap over the last 200 kyr. Lloyd, J.M., et al. [1996,eng] 50-5224
- Ice-rafted tephra sedimentation of the North Atlantic. Lacasse, C., et al. [1996,eng] 50-4140
- Iceland paleoclimatological dynamics from volcanic ash in lacustrine deposits. Björck, S., et al. [1992,eng] 50-2547
- Implications of glacial deposit physical properties for radiocarbon dating. Karrow, P.F., [1992,eng] 50-2563
- Inquiry on ice ages in Mount Xixia Bangma region. Shi, Y.F., et al. [1982,chi] 50-6605
- Interhemispheric correlation of Late Pleistocene glacial events. Lowell, T.V., et al. [1995,eng] 50-231
- Interpretation of faults in glaciofluvial sediments. McDonald, B.C., et al. [1975,eng] 50-4810
- Intracontinental subduction zones in the Tibetan Plateau and their magmatism. Deng, W.M., [1992,chi] 50-1499
- Inverse relation between ice extent and the late Paleozoic glacial record of Gondwana. González-Bonorino, G., et al. [1995,eng] 50-1807
- Is there any real evidence for a huge shelf ice sheet in East Siberia? Sher, A., [1995,eng] 50-499
- Isotope analysis of Bering Sea Pleistocene sediment variations. Nakatsuka, T., et al. [1995,eng] 50-3002
- Isotope analysis of Greenland ice sheet stratigraphic disturbances. Fuchs, A., et al. [1996,eng] 50-5461
- Isotope geochemistry and crustal evolution of northern Xinjiang. Hu, A.Q., et al. [1993,chi] 50-2353
- Isotope tracking of Pleistocene ice-rafted debris. Gwiazda, R.H., et al. [1996,eng] 50-4399
- Last glaciation in central Magellan Strait, southernmost Chile. Clapperton, C.M., et al. [1995,eng] 50-964
- Last Scottish ice-sheet: facts and speculative discussion. Sissons, J.B., [1981,eng] 50-3620
- Late Cenozoic evolution of the western Barents Sea-Svalbard continental margin. Faleide, J.I., et al. [1996,eng] 50-5308
- Late Cenozoic history of the Scandinavian and Barents Sea ice sheets. Mangerud, J., et al. [1996,eng] 50-5305
- Late Cenozoic sedimentation and uplift history on the mid-Norwegian continental shelf. Henriksen, S., et al. [1996,eng] 50-5315
- Late Eocene-Oligocene dinoflagellate provincialism in the North Atlantic Ocean. Damassa, S.P., et al. [1994,eng] 50-898

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- Late glacial raised beaches and glacier recession in northeast Iceland. Nordahl, H., et al. [1993,eng] 50-4772
- Late Holocene glacier fluctuations in western Norway. Nesje, A., et al. [1991,eng] 50-3302
- Late Holocene ice core history of the TAM. Mayewski, P.A., et al. [1995,eng] 50-1191
- Late Holocene record of aeolian and fire activity in northern Québec, Canada. Filion, L., et al. [1991,eng] 50-3304
- Late Pleistocene environment of north China. Zheng, H.H., et al. [1991,chi] 50-1844
- Late Pleistocene sea level fluctuations and marine terraces. Radtke, U., [1990,ger] 50-1795
- Late Pleistocene sedimentary environment near Urumqi. Han, S.T., et al. [1985,chi] 50-1998
- Late Pleistocene vegetation of eastern Beringia: pollen analysis of dated alluvium. Schweger, C.E., [1982,eng] 50-3373
- Late Quaternary glacial and environmental history of Kongsøya, Svalbard. Ingólfsson, Ó., et al. [1995,eng] 50-4713
- Late Quaternary glaciation history and landscape development in Spitsbergen. Blümel, W.D., et al. [1994,ger] 50-1578
- Late Quaternary lake-level record from northern Eurasia. Harrison, S.P., et al. [1996,eng] 50-4578
- Late Quaternary stratigraphy and glaciology in the Thule area, Northwest Greenland. Funder, S., ed. [1990,eng] 50-5169
- Late Quaternary subaqueous outwash deposits near Ottawa, Canada. Rust, B.R., et al. [1975,eng] 50-4813
- Late Quaternary vegetation variations in western Beringia. Anderson, P.M., et al. [1996,eng] 50-4341
- Late stage 5 glacio-isostatic sea in the St. Lawrence Valley, Canada and the United States. Occhietti, S., et al. [1996,eng] 50-4577
- Late Weichselian glacial maximum on Andøya, north Norway. Möller, J.J., et al. [1992,eng] 50-2546
- Late Weichselian to early Holocene sedimentation in eastern Svalbard. Möller, P., et al. [1995,eng] 50-4716
- Late Wisconsinan outwash in southeastern British Columbia. Clague, J.J., [1975,eng] 50-4815
- Late-glacial advances in the western Italian Alps. Porter, S.C., et al. [1982,eng] 50-3383
- Late-glacial palynology of the Myrtaceae of southern Chile. Zhou, M.M., et al. [1996,eng] 50-4744
- Lateglacial and Holocene variations of the Grey Glacier, an outlier of the South Patagonian icefield. Marden, C.J., [1993,eng] 50-3013
- Lichenometric dating of alpine Little Ice Age moraines. Winkler, S., et al. [1995,ger] 50-3396
- Lichens and rocks: a review. Easton, R.M., [1994,eng] 50-1252
- Linking physical property records of Quaternary sediments to Heinrich events. Chi, J., et al. [1996,eng] 50-5221
- Loess layer and the paleoclimate of northern piedmont of Tian Shan. Zhang, H.Y., et al. [1985,chi] 50-2003
- Low probability of east Antarctica Pliocene deglaciation. Warnke, D.A., et al. [1996,eng] 50-6628
- Luminescence dating of the deglaciation in northern Sweden. Lundqvist, J., et al. [1995,eng] 50-515
- Mafic intrusive body bearing Cu-Ni mineralization in Xinjiang. Yuan, Q.L., et al. [1993,chi] 50-2376
- Magnetic analysis of glaciogenic sediment weathering. Walden, J., et al. [1995,eng] 50-6562
- Magnetic climatology: mineral magnetism and the ice ages. Heller, F., et al. [1996,ger] 50-4743
- Major paleohydrographic changes in alpine foreland during the Pliocene-Pleistocene. Petit, C., et al. [1996,eng] 50-6538
- Marine record of deglaciation from the continental margin off Nova Scotia. Keigwin, L.D., et al. [1995,eng] 50-3001
- Metallogenic geology and geochemistry related to Ertix volcanism. Liu, T.G., et al. [1993,chi] 50-2375
- Metallogenic mechanism of Cu in Altay. Li, Z.C., [1993,chi] 50-2374
- Metallogenic mechanism of tungsten deposit in Alatau. Wang, K.R., et al. [1993,chi] 50-2373
- Meteor impact and the Cretaceous-Tertiary transition in arctic plant fossils. Spicer, R.A., et al. [1994,eng] 50-904
- Meteorites as time markers on antarctic blue ice fields. Benoit, P.H., [1995,eng] 50-1408
- Monitoring Termination II at high latitude: anomalies in the planktic foraminiferal record. Bauch, H.A., [1996,eng] 50-5223
- Moraine dating supports Younger Dryas cooling event. Gosse, J.C., et al. [1995,eng] 50-1255
- Moraine types from the last glaciation in the Qinghai-Xizang Plateau. Liu, S.J., et al. [1994,eng] 50-4782
- Near-shore Baltic ice lake deposits in Fakse Bugt, southeast Denmark. Bennike, O., et al. [1995,eng] 50-1798
- Neotectonic framework of the boundary of the Qinghai-Xizang Plateau. Wu, X.H., et al. [1992,chi] 50-1501
- New advances in solid earth sciences in northern Xinjiang. Tu, G.Z., ed. [1993,chi] 50-2350
- New development in the study on Carboniferous biostratigraphy in northern Xinjiang. Liao, Z.T., et al. [1993,chi] 50-2356
- New paleontological evidence for continental drift in the Qinghai-Xizang Plateau. Wen, S.X., [1992,chi] 50-1506
- New radiocarbon dates for the Vedde ash and the Sakunavart ash from western Norway. Birks, H.H., et al. [1996,eng] 50-4576
- North Atlantic paleoclimatic effects on primary productivity. Versteegh, G.J.M., et al. [1996,eng] 50-6620
- North Sea paleoenvironments during the last deglaciation. Knudsen, K.L., et al. [1996,eng] 50-6534
- Ny Friesland Orogen, Spitsbergen. Harland, W.B., et al. [1992,eng] 50-5155
- On ancient ice-sheet and ice age in the Tibetan Plateau. Xu, D.M., et al. [1995,chi] 50-5632
- On the paleoclimatology of the Tibetan Plateau during the last glaciation. Frenzel, B., [1994,ger] 50-4777
- On the Quaternary paleogeological action of the northern Tianshan. Zhang, H.Y., [1985,chi] 50-2001
- On the sedimentary environment of the glaciofluvial terraces of the Tian Shan Mountains near Urumqi. Han, S.T., [1985,chi] 50-2002
- Organic carbon in late Quaternary Arctic Ocean sediments. Schubert, C.J., [1995,ger] 50-2454
- Organic carbon paleo-pCO₂ and marine-ice core correlations and chronology. Raymo, M.E., et al. [1996,eng] 50-3601
- Overlapping mineralization of Karatongki Cu-Ni deposit. Zhan, X.Z., [1993,chi] 50-2377
- Paleoecology of two lake basins from Disko, West Greenland. Bennike, O., [1995,eng] 50-1081
- Paleoceanographic import of Norwegian Sea sediment stratigraphy. Rasmussen, T.L., et al. [1996,eng] 50-5222
- Paleoclimatic change from Lake Baikal sediments. Edgington, D.N., et al. [1996,eng] 50-6633
- Paleoclimatic changes and glacier variations in Colombia. Thouret, J.C., et al. [1996,eng] 50-6706
- Paleoclimatic changes on the northern side of the central Himalaya. Fort, M., [1996,eng] 50-5096
- Paleoclimatic implications of Norwegian postglacial avalanches. Blikra, L.H., et al. [1993,eng] 50-835
- Paleoclimatic interpretation of rock glacier dating. Nicholas, J.W., et al. [1996,eng] 50-5577
- Paleoclimatic models of Chinese loess and paleosol sequences. Thompson, R., et al. [1995,eng] 50-2542
- Paleoclimatic reconstructions from antarctic volcanic ash deposits. Marchant, D.R., et al. [1996,eng] 50-4233
- Paleoclimatology of Kamchatka from Cenozoic plant and foraminifera fossils. Foxanova, L.I., et al. [1994,eng] 50-900
- Paleoecological implications of Patagonian Quaternary pollen diagrams. Heusser, C.J., [1995,eng] 50-2164
- Paleoecological study of forest lines in southern Sweden. Björkman, L., [1995,eng] 50-6080
- Paleoecological study of Pleistocene mountain vegetation patterns. Gregory, K.M., et al. [1996,eng] 50-5081
- Paleoecology of Finnish lacustrine deposits. Sarmaja-Korjonen, K., [1995,eng] 50-4738
- Paleoenvironmental history of a Canadian freshwater lake. Hickman, M., et al. [1996,eng] 50-6696
- Paleogeography of Cenozoic lithofacies and their evolution in the Qaidam Basin. Yang, Z.L., [1986,chi] 50-1982
- Paleogeological events on Baffin Island, Labrador Sea. Fillon, R.H., et al. [1981,eng] 50-3621
- Paleohydrological changes in French mountains due to paleoclimatic changes. Magny, M., [1995,eng] 50-5038
- Paleomagnetism of Icelandic lava piles. Kristjánsson, L., et al. [1995,eng] 50-4948
- Paleozoic stratigraphy of ophiolites and their tectonic setting in Xinjiang. Wu, H.R., et al. [1993,chi] 50-2361
- Past glaciation and sea levels on Björnøya, Svalbard. Salvigsen, O., et al. [1995,eng] 50-4720
- Pb-Zn-Au deposits in Carboniferous strata of northern Xinjiang. Yang, W.H., et al. [1993,chi] 50-2357
- Plate and terrain tectonics of northern Xinjiang. Cao, R.L., et al. [1993,chi] 50-2352
- Plate tectonics and climate change in the Cenozoic. Eldholm, O., et al. [1994,eng] 50-896
- Pleistocene aluplanation in northern Chile. Kött, A., et al. [1995,eng] 50-4947
- Pleistocene climatic changes in arctic marine atmospheres. Seidenkrantz, M.S., et al. [1996,eng] 50-5584
- Pleistocene glacial history of the Svalbard area. Hebbeln, D., [1992,eng] 50-2558
- Pleistocene glaciation in northwestern British Columbia. Spooner, I.S., et al. [1995,eng] 50-4526
- Pleistocene glaciations in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1993,eng] 50-1677
- Pleistocene lacustrine record of a Chinese lake. Rhodes, T.E., et al. [1996,eng] 50-5095
- Pleistocene mountain glacier fluctuation in Chile. Andersen, B.G., et al. [1995,eng] 50-516
- Pleistocene slope deposits related to the Saint-Maurice Rhythmites, St. Lawrence Valley, Québec. Héty, B., et al. [1995,fre] 50-4883
- Pleistocene termination in northern Eurasia. Velichko, A.A., [1995,eng] 50-505
- Pleistocene treeline fluctuation in the Swiss Alps. Tinner, W., et al. [1996,eng] 50-5487
- Pleistocene-Holocene transition in Sweden. Lord, A.R., [1990,eng] 50-931
- Plio-Pleistocene foraminiferal stratigraphy in North Greenland. Feyling-Hanssen, R.W., [1990,eng] 50-5171
- Plio-Pleistocene megacycles: record of climate and tectonics. Kukla, G., et al. [1996,eng] 50-5099
- Plio-Pleistocene stratigraphy and paleobotany of the Kap København Formation. Bennike, O., [1990,eng] 50-5170
- Pliocene paleoclimates of Dry Valleys of Southern Victoria Land. Marchant, D.R., et al. [1996,eng] 50-6629
- Pollen content of Pleistocene deposits in the St. Lawrence Estuary. Clet, M., et al. [1995,fre] 50-4884
- Possible influence of glacial eustasy on antarctic shelf stratigraphy. Bartek, L.R., et al. [1996,eng] 50-4823
- Post glacial emergence and the Tapes transgression, north-central Kola Peninsula, Russia. Snyder, J.A., et al. [1996,eng] 50-5829
- Post-glacial mass flow and associated deposits in paleovalleys of Greenland. Collinson, J.D., et al. [1989,eng] 50-5168
- Postglacial sea-level history of Edgeøya and Barentsøya, eastern Svalbard. Bondevik, S., et al. [1995,eng] 50-4715
- Postglacial sedimentation in the Liefdefjord area, NW Spitsbergen. Baumhauer, R., et al. [1994,ger] 50-1581
- Precambrian glaciomarine sedimentation in East Greenland. Moncrieff, A.C.M., et al. [1990,eng] 50-935
- Primary division of Quaternary in Xinjiang. Yang, Z.X., et al. [1985,chi] 50-2004
- Problem on dividing the neotectonic units in Xinjiang. Bai, M.X., [1985,chi] 50-2008
- Proceedings of the first symposium on the Qinghai-Xizang Plateau. China Society of Qinghai-Xizang Plateau Research, Symposium, 1st. Mar. 1990, [1992,chi] 50-1475
- Qinghai-Xizang Plateau during the maximum glaciation. Shi, Y.F., et al. [1995,chi] 50-5616
- Quaternary geochronology using the U-Th-Pb method. Getty, S.R., et al. [1995,eng] 50-496
- Quaternary geology and geomorphology of Mount Xixia Bangma region. Liu, D.S., et al. [1982,chi] 50-6602
- Quaternary geology and the last two glaciations in Alberta. Jackson, L.E., Jr., [1994,eng] 50-86
- Quaternary glacial in the Andes. Heine, K., [1995,eng] 50-4837
- Quaternary glacial transport in the Hudson Bay region. Parent, M., et al. [1995,eng] 50-4527
- Quaternary glaciation in the Karakoram and Himalayas. Derbyshire, E., [1996,eng] 50-5097
- Quaternary glaciations in the eastern and central Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4776
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Quaternary insects and their environments. Elias, S.A., [1994,eng] 50-2009
- Quaternary processes in eastern China and international correlation. Yang, Z.G., et al. [1993,chi] 50-1843
- Quaternary record of eastern Svalbard—an overview. Landvik, J.Y., et al. [1995,eng] 50-4711
- Quaternary sedimentary processes and budgets in Orphan Basin, southwestern Labrador Sea. Hiscott, R.N., et al. [1996,eng] 50-4579
- Quaternary stratigraphy of the buried valleys of the lower Red Deer River, Alberta, Canada. Evans, D.J.A., et al. [1995,eng] 50-1080
- Quaternary terraces and related deposits in the western Wind River Basin, Wyoming. Jaworowski, C., [1993,eng] 50-702
- Radioactive dating of pollen deposits in a Swedish lake. Regnell, J., [1992,eng] 50-2562
- Radiocarbon balances of two Tibetan Lakes from 13,000 BP. Fontes, J.C., et al. [1993,eng] 50-5027
- Radiocarbon date list VIII: Canada, Greenland, Iceland, and Antarctica. Manley, W.F., ed. et al. [1996,eng] 50-5927
- Radiocarbon dating of the Goti-Finiglacial boundary of the Swedish Time Scale. Brunnberg, L., et al. [1992,eng] 50-2551
- Radiocarbon geochemistry of modern and ancient arctic lake systems, Baffin Island, Canada. Abbott, M.B., et al. [1996,eng] 50-5190
- Rare earths in the granitoids of the Altay region. Zhao, Z.H., et al. [1993,chi] 50-2368
- Regional geochemistry of Alatau region. Li, S.G., et al. [1993,chi] 50-2369
- Regional metallogenic model of Alatau region. Man, F.S., et al. [1993,chi] 50-2372
- Relevance of thermoluminescence dating of Pleistocene loess to volcanic eruptive history. Berger, G.W., et al. [1995,eng] 50-2118
- Research on Tertiary palynology from the Qaidam Basin. Zhu, Z.H., et al. [1985,chi] 50-2033
- Response functions of tree-ring chronologies in western Tianshan Mountains. Yuan, Y.J., et al. [1995,chi] 50-5626
- Review of Late Cretaceous floras and climates of arctic Russia. Herman, A.B., [1994,eng] 50-902
- Review of multi-proxy data for the Younger Dryas in Atlantic Canada. Mayle, F.E., et al. [1995,eng] 50-4624
- Revision of the lateglacial Swedish varve chronology. Strömberg, B., [1990,eng] 50-1791
- Sea floor morphology and glacial history of the Barents Sea. Solheim, A., et al. [1988,eng] 50-887
- Sedimentology of the Brampton esker in Ontario. Sanderson, H.C., [1975,eng] 50-4812
- Sequence of glacial ice flows in Abitibi-Timiskaming. Veilleite, J.J., et al. [1996,eng] 50-2499
- Simulation of Quaternary loess deposit magnetic profiles. Anderson, R.S., et al. [1996,eng] 50-4584
- Skógar Tephra, a Younger Dryas marker in North Iceland. Nordahl, H., et al. [1992,eng] 50-2548
- Solifluction and climate in the Holocene: a North American perspective. Smith, D.J., [1993,eng] 50-834
- Southern ocean Pleistocene water mass circulation variations. Diester-Haass, L., et al. [1996,eng] 50-3389
- Southwest Pacific paleoceanography and development of the East Antarctic Ice Sheet. Flower, B.P., et al. [1995,eng] 50-2609
- Stable isotopic character of mineralization of some deposits in northern Xinjiang. Zhang, G.X., et al. [1993,chi] 50-2378

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- Stratigraphy and palynology of boreal peat in French bogs. Juvigné, E., et al. [1995, fre] 50-4879
- Stratigraphy of redeposited fossils in Norwegian Pleistocene sediments. Vorrén, T.O., et al. [1981, eng] 50-3625
- Studies on Holocene fluvial geomorphodynamics on the upper Oberwaser. Thomas, J. [1993, ger] 50-2769
- Study on the sequences of the Quaternary glaciations in the Bayan Har Mountains. Zhou, S.Z., [1995, chi] 50-5633
- Submerged terraces in the Barents Sea. Lebesbye, E., et al. [1996, eng] 50-4876
- Tectonic features of the northwestern Qinghai-Xizang Plateau. Pan, Y.S., [1992, chi] 50-1500
- Tertiary climate changes in the Russian Far East. Krassilov, V.A., [1994, eng] 50-901
- Thermoluminescence ages of loess and associated sediments in central Nebraska, USA. Pye, K., et al. [1995, eng] 50-2166
- Thermoluminescence dating of Alaskan Pleistocene tephra. Berger, G.W., et al. [1996, eng] 50-5188
- Toba eruption sulfates recorded in GISP2 ice core. Zielinski, G.A., et al. [1996, eng] 50-5288
- Towards a review of Tertiary palaeobotany in the boreal realm. Boulter, M.C., [1994, eng] 50-893
- Trace element geochemistry of volcanic rocks along the Ertix River. Mei, H.J., et al. [1993, chi] 50-2365
- Two-step deglaciation of the southeastern Barents Sea. Poliak, L., et al. [1995, eng] 50-561
- Use of karst deposits in the French Jura for paleoclimatological analysis. Chaline, J., et al. [1995, eng] 50-1122
- Variations in Atlantic Ocean surface paleoceanography. Sarnthein, M., et al. [1995, eng] 50-3003
- Variations of Upsala Glacier in southern Patagonia since the late Holocene to the present. Malagnino, E., et al. [1992, eng] 50-379
- Vegetation and climate of maritime Canada 6000 years BP: a synthesis. Jetté, H., et al. [1995, eng] 50-1458
- Vegetation succession in ice age dating. Frenzel, B., [1990, ger] 50-1785
- Vendian glaciations and their relation to the dispersal of Rodinia: paleomagnetic constraints. Torsvik, T.H., et al. [1995, eng] 50-663
- Volcanic and tectonic history of Enceladus. Kargel, J.S., et al. [1996, eng] 50-3864
- Vostok ice core deuterium variations over the last two glacial cycles. Waelbroeck, C., et al. [1995, eng] 50-4089
- Warming at 18,000 yr B.P. in the tropical Andes. Helmens, K.F., et al. [1996, eng] 50-5189
- Water fern residue as Chilean paleoclimatic indicator. Heusser, C.J., et al. [1996, eng] 50-5488
- Weichselian chronostratigraphy and correlations. Möner, N.A., [1981, eng] 50-3624
- Weichselian glaciation in Svalbard before 15,000 B.P. Salvigsen, O., et al. [1981, eng] 50-3623
- Younger Dryas end moraines in Finland and NW Russia. Rainio, H., et al. [1995, eng] 50-514
- Younger Dryas ice-marginal deposits in Norway. Andersen, B.G., et al. [1995, eng] 50-511
- Younger Dryas margin of the Scandinavian ice sheet—an introduction. Andersen, B.G., et al. [1995, eng] 50-510
- Geocryology**
- Active layer of perennially frozen ground as a natural self-regulating system. Krivoshechekov, V.S., [1996, rus] 50-6395
- Active patterned ground and cryoturbation on Muckish Mountain, Co. Donegal, Ireland. Wilson, P., et al. [1995, eng] 50-665
- Analysis of moisture transfer in the aeration zone of the cryolithosphere. Shepelev, V.V., [1996, rus] 50-6817
- Arctic Ocean—a special natural cryogenic system. Danilov, I.D., [1996, rus] 50-6374
- Arctic shelf in the last cryogenic epoch of the Late Pleistocene. Danilov, I.D., [1996, rus] 50-6353
- Assessing effects on cryogenic terrain. Zotova, L.I., et al. [1996, rus] 50-6846
- Basic processes determining the rheological behavior of plastic-frozen ground under stress. Ukhov, S.B., et al. [1996, rus] 50-6827
- Basic state of engineering geocryological zoning. Bobov, N.G., [1996, rus] 50-6362
- Bunger Hills—its genesis and some physiogeographical problems. Wiśniewski, E., [1989, pol] 50-2873
- Calculating thermal and water resources of small river catchment areas in Siberia: part 1. Karnatsevich, I.V., [1989, rus] 50-133
- Calorimetric determination of permafrost water-ice phase composition. Fortier, R., et al. [1996, eng] 50-4863
- Changes in the geocryological conditions of developed lower reaches and estuaries of northern rivers. Shvetsov, P.F., et al. [1991, rus] 50-1301
- Changes in the level of industrial air pollutants in peat bogs in the cryolithosphere. Evseev, A.V., et al. [1996, rus] 50-6853
- Characteristics of cryolithogenesis on the arctic shelf. Romanovskii, N.N., et al. [1990, rus] 50-1660
- Characteristics of the crystallization of water in unsaturated soils. Golubev, V.N., [1996, rus] 50-6810
- Characteristics of the development of thermo-erosional gullies on mid-alassy slopes. Varlamov, S.P., [1996, rus] 50-6405
- Characteristics of the distribution of absorbed ions in syn-cryogenic and epicyclogenetic rocks. Ostroumov, V.E., [1996, rus] 50-6822
- Characteristics of the gas content of permafrost strata in the Bovanenka gas condensate field. Chuvilin, E.M., et al. [1996, rus] 50-6386
- Characteristics of the geocryological conditions in shallow water areas in the cryolithosphere. Buldovich, S.N., [1996, rus] 50-6389
- Characteristics of the seasonal freezing of rocks in the Tien Shan. Severskii, E.V., [1996, rus] 50-6368
- Classification of cryogenic polygonal relief. Viurina, E.A., et al. [1985, rus] 50-239
- Climate change impact on hydrology and cryology. Sæthun, N.R., [1995, eng] 50-1005
- Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996, rus] 50-6382
- Compositional variation of laurite in an alpine ultramafic complex in the Polar Urals. Anikina, E.V., et al. [1995, rus] 50-4108
- Computer simulation of arctic shelf freezing during the Pleistocene. Sigunov, I.U.A., et al. [1995, eng] 50-6582
- Conditions for the formation of taliks in mountain regions and foothills. Zhelezniak, M.N., et al. [1996, rus] 50-6411
- Creation of a geocryology database for Yakutia. Balobaev, V.T., et al. [1996, rus] 50-6361
- Creep of frozen soil by damage mechanics. Miao, T.D., et al. [1995, eng] 50-1556
- Cryogenic fissures as a factor of soil anisotropy. Kulikov, A.I., [1996, eng] 50-5449
- Cryogenic landslides on the Yamal Peninsula, Russia: preliminary observations. Leibman, M.O., [1996, eng] 50-6703
- Cryogenic phenomena in the lithosphere. Gavrilov, A.V., et al. [1996, rus] 50-6352
- Cryogenic state of soil in the cryolithosphere (Yakutia). Gavril'ev, P.P., et al. [1996, rus] 50-6844
- Cryogenic structure of surface deposits in Central Yakutia. Konchenko, L.A., [1996, rus] 50-6378
- Cryolithological structure of Quaternary deposits on Wrangel Island. Kotov, A.N., et al. [1996, rus] 50-6379
- Cryolithosphere of Western Siberia (thermal condition, database and mapping). An, V.V., et al. [1996, rus] 50-6359
- Cryolithosphere structure in an oil and gas-bearing province supply. Dedeev, V.A., et al. [1990, rus] 50-1630
- Cryovolcanism on the icy satellites. Kargel, J.S., [1994, eng] 50-1860
- Deformation of frozen sandy soils with a cloddy structure during thawing. Shevchenko, L.V., et al. [1996, rus] 50-6832
- Deformation properties of saline frozen rocks. Brushkov, A.V., [1996, rus] 50-6829
- Degradation of the cryolithosphere in Russia under global climatic warming. Ershov, E.D., et al. [1996, rus] 50-6840
- Dependence of rock stream development on geomorphological-tectonic features. Mal'chikova, I.I.U., [1993, rus] 50-117
- Description of Kolyma River landscapes and soils. Smith, C.A.S., et al. [1995, eng] 50-4698
- Determining the geocological stability of the cryolithosphere. Osadchaia, G.G., et al. [1996, rus] 50-6851
- Developing methods for forecasting seismic effects under cryolithosphere conditions. Dzhurik, V.I., et al. [1996, rus] 50-6834
- Development of cryogenic processes in the Baykal region. Leshchikov, F.N., [1996, rus] 50-6397
- Development of geophysical studies of the cryolithosphere. Frolov, A.D., [1995, rus] 50-2503
- Development of integrated ecological studies of the cryolithosphere. Zaborin, V.A., et al. [1991, rus] 50-441
- Dielectric moisture measurement of frozen ground. Frolov, A.D., [1996, rus] 50-6835
- Dipole-axis sounding and its use in studying the cryolithosphere. Shubin, A.B., [1995, rus] 50-2516
- Discussion of paper by Biggar et al. Juárez-Badillo, E., et al. [1995, eng] 50-582
- Distribution characteristics of taliks beneath lakes in the Bovanenka region. Anan'eva, G.V., et al. [1996, rus] 50-6360
- Dynamic deformation characteristics of rock foundations in the cryolithosphere. Voronkov, O.K., et al. [1995, rus] 50-2505
- Dynamics of thermokarst relief on the Yukechinsk polygon. Bosikov, N.P., [1996, rus] 50-6400
- Ecologic-genetic analysis of tundra-steppe soils in northeastern Siberia. Cherniakhovskii, D.A., [1996, eng] 50-5447
- Ecological monitoring of territories with oil and gas reserves in the cryolithosphere. Antonov-Druzhinin, V.P., et al. [1990, rus] 50-1605
- Ecological problems in the cryogenic-hydrogeological conditions in northwestern Siberia. Petrova, R.G., et al. [1996, rus] 50-6847
- Ecological role of a subaqueous cryolithosphere. Zhigarev, L.A., [1991, rus] 50-1302
- Ecologization of technological processes in oil and gas construction in arctic regions. Shishov, V.N., et al. [1990, rus] 50-1606
- Effect of chemical composition of soils on the strength and deformability of frozen saline soils. Roman, L.T., [1995, eng] 50-632
- Effect of cryogenic processes on the construction and operation of railroads in Transbaikalia. Shesterneva, M.K., [1993, rus] 50-112
- Effect of cryopogs on the temperature and salinity of surrounding permafrost. Anisimova, N.P., [1996, rus] 50-6390
- Effect of cryospheric cooling on the distribution of oil and gas in Siberian deposits. Bol'shakov, I.U.A., et al. [1989, rus] 50-2259
- Effect of introduced disturbances on the development of thermo-erosional processes. Glavatskikh, V.V., et al. [1996, rus] 50-6404
- Effect of perennial rock freezing on the water saturation of coal basins. Elisafenko, T.N., [1985, rus] 50-249
- Effect of soil-ground and surface conditions on the insulating properties of snow cover. Konstantinov, P.I.A., [1996, rus] 50-6393
- Effect of technogenic disturbances on the thermal regime of soils in Central Yakutia. Skriabin, P.N., et al. [1996, rus] 50-6394
- Effect of the laying of gas pipelines on the geosystem of the cryolithosphere in Western Siberia. Moskalenko, N.G., [1996, rus] 50-6849
- Effect of the seasonal thaw layer in rocks on their deformation properties. Khamin, M.N., [1993, rus] 50-122
- Effects of freeze-thaw cycles on the properties of a sensitive clay. Roy, M., et al. [1995, fre] 50-581
- Electrical sounding of the cryolithosphere in the Arctic using transient processes. Nim, I.U.A., [1989, rus] 50-2303
- Electromagnetic methods in permafrost research. Krylov, S.S., et al. [1995, rus] 50-2511
- Electromagnetic system and its use in electrometry of the cryolithosphere. Badalov, V.D., et al. [1989, rus] 50-2306
- Engineering geological characteristics of solifluctive soil (Yamal Peninsula). Platon, N.A., et al. [1985, rus] 50-244
- Engineering role of processes caused by the interaction of natural and artificial factors. Glotov, V.E., [1991, rus] 50-438
- Engineering-ecology safety during the operation of oil and gas facilities. Konstantinov, I.P., [1996, rus] 50-6845
- Engineering-geocryological conditions of the Neytinsk structure. Dan'ko, V.K., et al. [1983, rus] 50-310
- Engineering-geocryological environment and changes in natural conditions in Punginsk. Shamanova, I.I., et al. [1985, rus] 50-247
- Engineering-geocryological problems in Transbaikalia: collected scientific papers. Shesternev, D.M., ed. [1993, rus] 50-107
- Engineering-geocryological regionalization of Tazov Peninsula. Belopukhova, E.B., et al. [1983, rus] 50-308
- Engineering-geocryological regionalization of the central regions of northwestern Siberia. Belopukhova, E.B., et al. [1985, rus] 50-241
- Estimating changes in the temperature regime and condition of rocks based on the analysis of climatic data. Ershov, E.D., et al. [1996, rus] 50-6387
- Estimation of reliability of permafrost beds. Gerasimov, A.S., [1995, eng] 50-344
- Evaluating the stability of natural complexes in tundra under technogenic disturbances. Demanov, V.E., et al. [1994, rus] 50-259
- Evolution of lowland landscapes in northeastern Asia during Late Quaternary time. Tomirdiro, S.V., [1982, eng] 50-3370
- Experimental studies of the interaction of oil with cryogenic rocks. Ershov, E.D., et al. [1996, rus] 50-6823
- Experimental studies on the resistance of frozen ground to maximum thermo-erosion washout. Penden, V.V., et al. [1996, rus] 50-6407
- Experimental study of the thermal regime of soils in the arctic regions of Western Siberia. Pavlov, A.V., et al. [1996, rus] 50-6388
- Exploration for hydrocarbon deposits and engineering preparation of oil and gas provinces. Akhmetshin, A.A., et al. [1996, rus] 50-6371
- Field observations of frost action in intact and weathered Champlain Sea clay. Konrad, J.M., et al. [1995, eng] 50-580
- Fifty years of scientific research at the Chair of Cryolithology and Glaciology (1945-1995). Voikovskii, K.F., et al. [1995, rus] 50-4110
- Filtration permeability of permafrost. Olovinn, B.A., [1993, rus] 50-89
- Forecasting gully erosion in Yamburg. Skubitskaia, M.G., [1996, rus] 50-6406
- Forecasting seismic effects under cryolithosphere conditions. Dzhurik, V.I., [1995, rus] 50-2506
- Formation of taliks and high temperature frozen rocks under conditions of Central Yakutia. Shender, N.I., et al. [1996, rus] 50-6412
- Formation of the cryo-ecological segment in Central Yakutia. Fedorov, A.N., [1996, rus] 50-6843
- Freeze-thaw effects of fine-grained soil permeability. Eigenbrod, K.D., [1996, eng] 50-6749
- Freeze-thaw weathering: the cold region "panacea". Hall, K., [1995, eng] 50-4697
- Frost heave due to ice lens formation in freezing soils. 1. Theory and verification. Sheng, D., et al. [1995, eng] 50-742
- Frost heave due to ice lens formation in freezing soils. 2. Field application. Sheng, D., et al. [1995, eng] 50-743
- Frost heave susceptibility in Transbaikalia. Sal'nikov, P.I., [1996, rus] 50-6399
- Frozen ground landscapes of Yakutia: explanatory notes to a map. Fedorov, A.N., et al. [1989, rus] 50-5005
- Fundamentals of ice lens formation. Takagi, S., [1975, eng] 50-3390
- Gas-producing units construction experience in the arctic regions. Zavizion, V.G., [1991, eng] 50-1763
- Gelifluction in the alpine periglacial environment of the Tianshan Mountains. Chiu, G.N., et al. [1996, eng] 50-6704
- Geo-ecological problems of the oil and gas complex in Yamal. Mel'nikov, E.S., et al. [1990, rus] 50-1599
- Geochemical fields in the cryolithosphere. Makarov, V.N., [1996, rus] 50-6381
- Geocryological bases for failure mechanics of permafrost during construction development in arctic regions. Rastegaev, I.K., [1990, rus] 50-1661

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- Geocryological characteristics of the intermontane troughs in the Altay Mountains. Kuskovskii, V.S., [1996.rus] 50-6364
- Geocryological conditions for power plant foundations in Russia. Krivonogova, N.F., et al., [1991.eng] 50-1736
- Geocryological conditions of the eastern Bambiya basin. Znamenskiĭ, E.N., [1983.rus] 50-316
- Geocryological conditions of Transbaikalia and engineering-geocryological problems. Shesternev, D.M., et al., [1993.rus] 50-108
- Geocryological reconstructions for the central Russian Plain. Ershov, E.D., et al., [1996.rus] 50-6354
- Geocryological studies in arctic regions. Vol. 1: Plenary papers. Geokriologicheskie issledovaniia v arkticheskikh raionakh; mezhdunarodnyi simpozium, SSSR, IAmburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, Avgust 1989), [1990.rus] 50-1659
- Geocryological studies in arctic regions. Vol. 4. Geokriologicheskie issledovaniia v arkticheskikh raionakh; mezhdunarodnyi simpozium, SSSR, IAmburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, Avgust 1989), [1990.rus] 50-2247
- Geocryological studies in arctic regions. Vol. 5: Poster papers. Geokriologicheskie issledovaniia v arkticheskikh raionakh; mezhdunarodnyi simpozium, SSSR, IAmburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, Avgust 1989), [1990.rus] 50-2299
- Geocryological studies in arctic regions. Vol. 2: Modern arctic cryolithozone structure. Geokriologicheskie issledovaniia v arkticheskikh raionakh; mezhdunarodnyi simpozium, SSSR, IAmburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, Avgust 1989), [1990.rus] 50-1621
- Geocryological studies in arctic regions. Vol. 3, Part 1: Environmental protection in the Arctic. Geokriologicheskie issledovaniia v arkticheskikh raionakh; mezhdunarodnyi simpozium, SSSR, IAmburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, Avgust 1989), [1990.rus] 50-1597
- Geocryological studies in arctic regions. Vol. 3, part 2: Stability of processes occurring in frozen soils. Geokriologicheskie issledovaniia v arkticheskikh raionakh; mezhdunarodnyi simpozium, SSSR, IAmburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, Avgust 1989), [1990.rus] 50-1608
- Geocryological typification of a territory according to frost heave formation conditions. Verkhovzin, I.I., et al., [1993.rus] 50-113
- Geological specifics in the natural dynamics of the subarctic cryolithozone. Oberman, N.G., [1996.rus] 50-6850
- Geophysical and laboratory methods for studying the mechanical characteristics of permafrost. Mamzelev, A.P., [1996.rus] 50-6833
- Geophysical investigations of cryolithozone. Scientific papers. Frolov, A.D., ed., [1995.rus] 50-2502
- Glaciological zoning of the Earth. Tushinskii, G.K., et al., [1973.rus] 50-421
- Heat flow in the cryolithozone in relation to subsurface heat flow. Deviatkin, V.N., et al., [1990.rus] 50-1626
- Heat flow in the lithosphere in the western Siberian platform. Deviatkin, V.N., et al., [1996.rus] 50-6392
- Hillslope ice wedges and landform evolution on coastal arctic Canada. Mackay, J.R., [1995.eng] 50-3298
- How to make a pulse: a field experiment on permafrost formation. Seppälä, M., [1995.eng] 50-874
- Hydraulic fill ash storage design for the permafrost zone. Koritova, I.V., et al., [1995.eng] 50-1838
- Ice complex and greenhouse gases. Kunitskiĭ, V.V., [1996.rus] 50-6380
- Ice-wedge formation in northern Asia during the Holocene. Vasil'chuk, I.U.K., et al., [1996.eng] 50-6705
- Implications of frost heave for patterned ground, Tibet Plateau, China. Wang, B.L., et al., [1995.eng] 50-2808
- Instrument systems for studying the structure of frozen ground during its deformation. Erbiagin, I.F., [1996.rus] 50-6836
- Interaction of mechanical and chemical properties of frozen ground. Kozhevnikov, N.N., [1996.rus] 50-6819
- Introduction to the Alps. Aeschmann, D., et al., [1995.eng] 50-1010
- Kinetics of the freezing of water in dispersed soils (experiment, theory). Grechishchev, S.E., et al., [1996.rus] 50-6811
- Lacustrine thermokarst in northern Chukotka. Tishin, M.I., [1990.rus] 50-1628
- Lichenometric indications of the intensity of some exogenic processes. Galanin, A.A., [1996.rus] 50-6413
- Manual for freezing soil heave stress testing unit. Martin, R.T., [1974.eng] 50-4265
- Mapping the territory of the Bovanenok gas condensate field. Sretetskaia, I.D., et al., [1996.rus] 50-6369
- Mechanism of the development of the Pomeranian Phase marginal zone in the Lake Drawa district. Kłysz, P., [1990.pol] 50-5004
- Mesomorphic soil formation in the cryogenic taiga semihumid sector of central Siberia. Ershov, E.D., [1995.eng] 50-2146
- Methane in frozen rocks and some aspects of forecasting its emission. Rivkin, F.M., [1996.rus] 50-6383
- Method of determining the surface boundary conditions for geocryological forecasting. Ershov, E.D., et al., [1996.rus] 50-6838
- Method of preparing a geocryological foundation for hydrogeological mapping. Lomovtseva, N.S., [1996.rus] 50-6365
- Methodological prerequisites for using time analogy methods in frozen ground mechanics. Roman, L.T., et al., [1996.rus] 50-6830
- Migration of chemical elements and ions in the seasonal thaw layer and upper layer of perennially frozen rocks. Leibman, M.O., et al., [1996.rus] 50-6848
- Migration of chemical elements in frozen rocks. Chuvilin, E.M., et al., [1996.rus] 50-6820
- Mode of degradation of Pleistocene permafrost in West Siberia. Astakhov, V.I., [1995.eng] 50-507
- Model for calculating the heat transfer coefficient for sedimentary rocks. Gavril'ev, R.I., [1996.rus] 50-6818
- Model of frozen strata in the cryolithozone. Gravis, G.F., [1996.rus] 50-6373
- Model of protecting the geological environment in the permafrost region. Kagan, A.A., [1995.eng] 50-343
- Models in engineering geocryology and their use in the organization of scientific studies. Levkovich, V.R., et al., [1989.rus] 50-2304
- Moisture transfer, water-soluble substances and structural transformation during freezing. Brovka, G.P., et al., [1996.rus] 50-6821
- Morphological characteristics of large deposits of ground ice in central Yamal. Parmuzin, S.I.U., et al., [1983.rus] 50-311
- Nature of the displacement of dispersed rocks on slopes. Petrov, V.S., et al., [1996.rus] 50-6402
- New concept in studying and forecasting frost heave. Nevecheva, V.L., [1996.rus] 50-6398
- New data on the geology and paleogeography of the Late Pliocene-Middle Pleistocene in Eurasia. Kostiaev, A.G., [1996.rus] 50-6355
- Observations of the geophysical regime as an element in geocryological monitoring. Baulin, I.U.I., et al., [1995.rus] 50-2515
- Observations of the mobility of rock streams in the Udokan Range. Romanovskii, N.N., et al., [1996.rus] 50-6403
- On filtering consolidation of ground during pre-construction thawing. Barsagan, R.M., et al., [1996.rus] 50-6831
- On the granulometric composition of coarse detrital rocks. Shesternev, D.M., [1993.rus] 50-120
- Origin and thermal evolution of icy satellites. Coradini, A., et al., [1995.eng] 50-1069
- Paleoecological significance of Quaternary permafrost relics in arctic Canada. Murton, J.B., [1996.eng] 50-3645
- Paleogeographic conditions of continental synorogenesis on Central Yamal. Bolikhovskaia, N.S., et al., [1996.rus] 50-6351
- Paleogeographic significance of Norwegian block field periglacial processes. Sellier, D., [1995.fre] 50-4878
- Paleogeographical studies of permafrost in the eastern Taymyr lowland. Siegert, C., et al., [1995.eng] 50-2092
- Paleogeographical conditions for the formation of ice in homogeneous age varved clays. Karpov, E.G., et al., [1996.rus] 50-6377
- Paleomagnetism of a glacial sequence, South Australia. Schmidt, P.W., et al., [1995.eng] 50-411
- Perennially frozen rock as a site for burying industrial wastes. Borisov, V.N., et al., [1996.rus] 50-6824
- Periglacial elements in the geological structure and relief of northern Chaztochowa. Kobjek, S., [1990.pol] 50-4941
- Periodic water saturation of ice wedges: results of an oxygen-18 and deuterium study. Lauriol, B., et al., [1995.fre] 50-667
- Permafrost distribution in the southern circumpolar region. Bockheim, J.G., [1995.eng] 50-666
- Permafrost in China: past and present. Qiu, G.Q., et al., [1995.eng] 50-664
- Permafrost microbiology. Gilichinskiĭ, D.A., et al., [1996.rus] 50-6372
- Permafrost on the Tibet Plateau, China. Wang, B.L., et al., [1995.eng] 50-1856
- Phase composition of moisture in saline frozen ground. Motenko, R.G., et al., [1996.rus] 50-6837
- Phase equilibrium of soil water on the cryolithosphere. Konov, A.A., [1996.rus] 50-6812
- Photo-registration of pre- and post-breakdown situations in oil pipelines in Siberia. Eliseev, I.U.B., [1996.rus] 50-6858
- Physical-chemical fundamentals of strength of frozen saline soils. Roman, L.T., et al., [1996.rus] 50-6826
- Plan for a regional ecological atlas of the cryolithozone (in the example of Yakutia). Alekseev, V.R., et al., [1996.rus] 50-6842
- Pleistocene paleosol soil development in northwest Alaska. Höffe, C., et al., [1996.eng] 50-6517
- Possibility of subsea cryolithogenesis. Shpolianskaia, N.A., [1990.rus] 50-1627
- Possible use of the oxygen isotope method to study ground ice and permafrost. Valikmae, R.A., [1990.rus] 50-1629
- Prediction of permafrost temperature in bed of structure from field data. Khrustalev, L.N., et al., [1995.eng] 50-345
- Preliminary results of ground ice studies in the Herschel Island area, Yukon coastal plain. Pollard, W.H., [1990.eng] 50-1622
- Pressure studies on frost heave in soil and glaciers. Radd, F.J., et al., [1996.eng] 50-1409
- Probability model for the structure of frozen strata in Central and Eastern Siberia. Iakupov, V.S., et al., [1996.rus] 50-6370
- Problems in environmental protection; vol. 4. Pavlov, G.F., ed., [1991.rus] 50-437
- Problems in geocryological studies in northern Yakutia. Liubomirov, A.S., et al., [1991.rus] 50-1304
- Problems in improving the reliability of geotechnology and their systematic analysis. Linkov, A.S., [1989.rus] 50-2305
- Problems in protecting the geological environment; in the example of Eastern Siberia. Pinneker, E.V., ed., [1993.rus] 50-91
- Problems in the ecology of polar regions, vol. 2: collected scientific papers. Bogoslovskaja, L.S., ed., [1991.rus] 50-1288
- Problems of dead ice and ground ice in the central part of the north European plain. Böse, M., [1995.eng] 50-508
- Proceedings of the First Conference of Russian Geocryologists, June 3-5, 1996, Moscow, Vol. 1. Konferentsiia geokriologov Rossii, 1st. Moscow State University, June 3-5, 1996, [1996.rus] 50-6349
- Proceedings of the First Conference of Russian Geocryologists, June 3-5, 1996, Moscow, Vol. 2. Konferentsiia geokriologov Rossii, 1st. Moscow State University, June 3-5, 1996, [1996.rus] 50-6808
- Properties of antarctic maritime and coastal soils. Böller, M., et al., [1995.eng] 50-2567
- Prospects for using geochemical methods in forecasting and evaluating technogenic talik zones. Tregubov, O.D., [1996.rus] 50-6855
- Prospects for using solar energy technology in Transbaikalia. Zhelezniak, I.I., et al., [1993.rus] 50-110
- Quaternary geology and cryogenic structure of Taymyr. Derevianin, A.I.U., et al., [1996.rus] 50-6375
- Questions in engineering-geological mapping of routes of linear structures. Demidiuk, L.M., et al., [1983.rus] 50-309
- Questions in regional and engineering geocryology. Soboleva, I.V., ed., [1983.rus] 50-307
- Rapid field determination of upper layer parameters in the cryolithozone. Pavlov, A.V., [1990.rus] 50-1613
- Recent morphogenesis and problems in the geocology of the Russian Arctic. Sen'kin, O.V., et al., [1995.rus] 50-5138
- Regional forecasting of cryogenic processes and ecology of the cryolithozone. Grechishchev, S.E., [1990.rus] 50-1598
- Regional geocryological studies; collected scientific papers. Sukhodol'skii, S.E., ed., et al., [1985.rus] 50-238
- Regional geocryology (current status, trends and prospects for development). Mel'nikov, E.S., [1996.rus] 50-6366
- Regionalization of territories according to degree of risk to cryogenic processes. Kuznetsova, I.L., et al., [1996.rus] 50-6396
- Regularities in the changes of composition of coarse detrital rock. Druzhinin, A.S., et al., [1993.rus] 50-121
- Regularities in the interaction of cryolithozone and gas or gas hydrate beds. Mel'nikov, V.P., et al., [1995.rus] 50-4116
- Regularities in the interaction of frozen strata with gas or gas hydrate beds. Romanovskii, N.N., et al., [1996.rus] 50-6391
- Relationship between surface and subsurface glaciation on the East European Plain in the Dnepr cold epoch. Nechaev, V.P., [1996.rus] 50-6357
- Relict sub-thermokarst of the periglacial region in the Quaternary glaciation. Molodykh, I.I., [1996.rus] 50-6356
- Results of joint Russian-Canadian geophysical studies of permafrost on the Yamal Peninsula. Burns, R.A., et al., [1995.rus] 50-2507
- Review of solution methods to the problem of heat-mass transfer during freezing and thawing. Komarov, I.A., [1996.rus] 50-6816
- Rock massif response to subzero temperature fluctuations. Chislov, A.I., [1991.eng] 50-1745
- Scenarios of changes in the cryolithozone in Russia under global climatic warming. Velichko, A.A., et al., [1996.rus] 50-6839
- Seasonal frost mounds of arctic beaches, Tuktoyaktuk Peninsula, Northwest Territories. Campeau, S., et al., [1995.fre] 50-4882
- Secondary precipitates in Pleistocene and present cryogenic environments. Vogt, T., et al., [1996.eng] 50-4045
- Sedimentary petrogenesis and its characteristics in the cryolithozone. Danilov, I.D., [1995.eng] 50-6074
- Seismic prospecting for oil and gas in regions with cryolithozone development. Bevezenko, I.U.P., [1989.rus] 50-2260
- Shelf freezing and cryolithozone evolution of the Laptev Sea. Fartyshev, A.I., [1990.rus] 50-1631
- Soil studies in the region of southern Bellsund area (Western Spitsbergen). Klimowicz, Z., et al., [1993.eng] 50-2205
- Soils in frozen regions of the biosphere, their function and use. Makeev, O.V., [1990.rus] 50-21
- Solifluction and climatic variation in the Holocene. Frenzel, B., ed., et al., [1993.eng] 50-823
- Solifluction as a function of strength in thawing soil. Bondarenko, G.I., [1996.rus] 50-6401
- Some examples of stationary investigations of cryogenic processes in Transbaikalia. Poznanin, V.L., et al., [1993.rus] 50-114
- Special geocryological regionalization of the European north-east. Ivanova, T.F., et al., [1985.rus] 50-240
- State and salinity of soils in the littoral sections of the Kara Sea. Dubikov, G.I., et al., [1996.rus] 50-6376
- Stationary study of the dynamics of shoreline slopes in the Bol'shezemel'skaya tundra. Glavatskikh, V.V., et al., [1996.rus] 50-6410
- Statistical analysis of Thayer Hill Road heave data. Harr, M.E., et al., [1995.eng] 50-2030
- Strength and viscosity of ice. Zaretskiĭ, I.U.K., et al., [1996.rus] 50-6825
- Structure of cryogenic strata in the Arctic and the history of their development. Konishchev, V.N., [1990.rus] 50-1623

Geodesy

Geological surveys

- Study of the heat of crystallization of bound water in clay soils. Starostin, E.G., et al. [1996.rus] 50-6809
- Studying seacoasts in the cryolithozone. Sovershaev, V.A., [1996.rus] 50-6408
- Subaqueous cryological survey and mapping of the oceanic cryolithozone. Zhigarev, L.A., [1996.rus] 50-6363
- Subpermafrost groundwater in Chukotka. Ruzanov, V.T., et al. [1996.rus] 50-6367
- Support of vertical-shaft collar under complex geocryological conditions. Izakson, V.I.U., et al. [1995.eng] 50-417
- Surveying methods and geocryological databases in the Russian GMGS system. Dubrovina, V.A., et al. [1996.rus] 50-6856
- Syngenic layered ground ice in littoral marine deposits in Baydaratskaya Bay. Spisitsv, V.I., [1996.rus] 50-6384
- Technogenic cryomorphogenesis and pollution of river estuaries in the Arctic basin. Grigor'ev, M.N., et al. [1991.rus] 50-1303
- Technogenic dynamics of oil field terrain in the cryolithozone. Popkov, O.N., [1996.rus] 50-6852
- Technogenic nald formation around the city of Anadyr'. Kotov, A.N., [1996.rus] 50-6854
- Thermo-abrasion and thermo-denudation of the shores of arctic seas (e.g., the Laptev Sea). Grigor'ev, M.N., [1996.rus] 50-6409
- Thickness and structural characteristics of the cryolithozone in northwest Siberia. Agalakov, S.E., [1996.rus] 50-6358
- Tien Shan: trends of changes in the geocryological conditions. Gorbunov, A.P., et al. [1996.rus] 50-6841
- Time series in geocryology. Melnikov, V.P., et al. [1992.rus] 50-134
- Tritium analysis of ground ice: results and prospects. Chizhov, A.B., et al. [1996.rus] 50-6385
- Uniaxial compressive strength of frozen ground at low subzero temperatures. Ershov, E.D., et al. [1996.rus] 50-6828
- Using heat exchange models for geocryological temperature monitoring. Izakson, V.I.U., et al. [1992.rus] 50-820
- Using satellite photography in geocryological studies in the cryolithozone. Gavrilov, A.V., et al. [1996.rus] 50-6857
- Geodesy**
- Building a glaciological information system for a surging glacier. Garelik, I.S., et al. [1994.rus] 50-3489
- Postglacial rebound from VLBI geodesy: on establishing vertical reference. Argus, D.F., [1996.eng] 50-5459
- Geodetic surveys**
- Geodetic support for Spitsbergen expedition. Rawiel, P., et al. [1994.ger] 50-1576
- GPS geodetic activities in the 1994-95 antarctic campaign. Capra, A., et al. [1995.eng] 50-4393
- Greenland expedition with the Ni2 level. Mälzer, H., [1960.eng] 50-5750
- Performance assessment of the high resolution GPS ranging system. Deffenbaugh, M., et al. [1995.eng] 50-6309
- Position measurements during the 1959 International Glaciological Expedition in Greenland. Hofmann, W., [1958.ger] 50-4632
- Research into the Hansbreen, a tidewater glacier in Spitsbergen. Glazovskii, A.F., et al. [1992.eng] 50-3438
- Sea Ice Mechanics Initiative (SIMI) GPS position. O'Hara, S., et al. [1995.eng] 50-6285
- Straight line measurements of an open four-sided figure. Hofmann, W., [1958.ger] 50-4633
- Surveying and mapping program of the United States in Antarctica. Mullen, R.R., et al. [1993.eng] 50-592
- Surveying work in Mount Xixia Bangma region. Zhou, J.Q., et al. [1982.chi] 50-6594
- Using multiple data sources to enhance photogrammetry for mapping antarctic terrain. Fox, A.J., [1995.eng] 50-5536
- Geoelectricity**
- Adverse telluric effects on northern pipelines. Seager, W.H., [1991.eng] 50-1761
- Dipole-axis sounding and its use in studying the cryolithozone. Shubin, A.B., [1995.rus] 50-2516
- Electrical sounding of the cryolithozone in the Arctic using transient processes. Nim, I.U.A., [1989.rus] 50-2303
- Electrolytical processes in dirty planetary ices. Drobyshevskii, E.M., et al. [1995.eng] 50-655
- Electromagnetic methods in permafrost research. Krylov, S.S., et al. [1995.rus] 50-2511
- Observations of the geophysical regime as an element in geocryological monitoring. Baulin, I.U.I., et al. [1995.rus] 50-2515
- Using geophysical methods to study characteristics of the Dzhanqat Glacier moraines. Aleshin, A.S., et al. [1972.rus] 50-526
- Geographic location**
- South Pole wanders from the straight and narrow. Kiernan, V., [1996.eng] 50-4216
- Geographic names**
- See [also]: Gazetteers
- Geography**
- Effect of the geographic environment on the occurrence of surface waters from a terraced tundra plain. Szczepanik, W., [1989.pol] 50-2918
- Geographic names of the Antarctic. Second edition 1995. Alberts, F.G., ed. [1995.eng] 50-4860
- Holocene climatic, vegetation and pollen data of Siberia adjacent to the Laptev Sea. Naidina, O.D., [1995.eng] 50-2091
- Information booklet on the Arctic and Antarctic Research Institute (Russia). Mustafin, N.V., [1993.eng] 50-19
- Paleogeographical conditions of the degradation of Pleistocene frozen ground. Astakhov, V.I., [1990.rus] 50-1624
- Polar regions: a political geography. Chaturvedi, S., [1996.eng] 50-5926
- See [also]: Biogeography
- Geologic processes**
- Computer simulations of Alaskan neotectonics. Bird, P., [1996.eng] 50-6215
- Cretaceous to recent extension in the Bering Strait region. Alaska. Dumitru, T.A., et al. [1996.eng] 50-3714
- Cryovolcanism on the icy satellites. Kargel, J.S., [1994.eng] 50-1860
- Development of the middle and lower course of the Weser River during the Late Pleistocene. Meinke, K., [1995.eng] 50-2746
- Ejection velocity of ice impact fragments. Arakawa, M., et al. [1995.eng] 50-2153
- Evidence for Cenozoic crustal extension in the Bering Sea region. Cooper, A.K., et al. [1992.eng] 50-2565
- Evolutional and genetic mechanism of tectonics of Altay area. Zhang, X.B., et al. [1993.chi] 50-2363
- Geological transect of the Brooks Range, Alaska. Kelley, J.S., et al. [1995.eng] 50-5198
- Glacial or non-glacial origin for the Bigganjarga tillite, Finnmark, northern Norway. Jensen, P.A., et al. [1996.eng] 50-4395
- Glacial rebound of the British Isles—III: constraints on mantle viscosity. Lambeck, K., et al. [1996.eng] 50-4737
- Global chemical weathering on glacial time scales. Kump, L.R., et al. [1994.eng] 50-1239
- High pressure-differential thermal analysis of ice-water equilibrium at 1.5-5.0 GPa. Xu, Y.S., et al. [1995.eng] 50-3392
- Impact of subglacial groundwater flow on moraine formation. Boulton, G.S., et al. [1995.eng] 50-2129
- Late Quaternary flux of eolian dust to the pelagic ocean. Rea, D.K., et al. [1994.eng] 50-1242
- Limestone karst morphology in the Himalayas of Nepal and Tibet. Waldham, A.C., [1996.eng] 50-4875
- Major paleogeographic changes in alpine foreland during the Pliocene-Pleistocene. Petit, C., et al. [1996.eng] 50-6538
- Mantle rebound from data inversion of glacier isostatic dynamics. Peltier, W.R., et al. [1996.eng] 50-3548
- New Zealand talus-derived rock glacier climatic responses. Kirkbride, M., et al. [1995.eng] 50-6561
- Nomenclature applied to deposits formed in glacial and ice-contact environments. Hill, H.K., et al. [1996.eng] 50-5711
- Norwegian Pleistocene crustal metamorphism. Ohta, Y., et al. [1995.eng] 50-5535
- Ny Friesland Orogen, Spitsbergen. Harland, W.B., et al. [1992.eng] 50-5155
- Off-rift and rift-zone palaeostresses in northwest Iceland. Gudmundsson, A., et al. [1996.eng] 50-6207
- Origin and thermal evolution of icy satellites. Coradini, A., et al. [1995.eng] 50-1069
- Paleoclimatic reconstructions from antarctic volcanic ash deposits. Marchant, D.R., et al. [1996.eng] 50-4233
- Pleistocene glaciation and the Earth's precession constant. Mitrovica, J.X., et al. [1995.eng] 50-517
- Regional forecasting of cryogenic processes and ecology of the cryolithozone. Grechishchev, S.E., [1990.rus] 50-1598
- Satellite regolith frozen ground collapse as solar system geological paradigm. Moore, J.M., et al. [1996.eng] 50-6588
- Tectonic significance of alpine eclogites. Spalla, M.I., et al. [1996.eng] 50-5572
- Ten million year histories of obliquity and precession: the influence of the ice-age cycle. Jiang, X.H., et al. [1996.eng] 50-5044
- Tertiary paleostress regimes in arctic islands. Lepvrier, C., et al. [1996.eng] 50-6208
- Tholeiitic-alkalic transition at subglacial volcanoes, Tuva region, British Columbia, Canada. Moore, J.G., et al. [1995.eng] 50-3012
- Geologic structures**
- Acquisition and processing of remote sensing data on ore deposits. Guo, H.D., et al. [1993.chi] 50-2380
- Analysis on metamorphism of Eritx structural belt in northern Xinjiang. Sui, J.X., [1993.chi] 50-2370
- Carboniferous litho facies-paleogeography and its tectonic condition in northern Xinjiang. Wei, Z.L., et al. [1993.chi] 50-2367
- Computer simulations of Alaskan neotectonics. Bird, P., [1996.eng] 50-6215
- Cretaceous and Tertiary deposits in southern Xizang. Zhou, Z.C., et al. [1992.chi] 50-1502
- Dating of Norwegian Pleistocene rock sediments. Balashov, I.U.A., et al. [1995.eng] 50-5534
- Evidence for Cenozoic crustal extension in the Bering Sea region. Cooper, A.K., et al. [1992.eng] 50-2565
- Evolutional and genetic mechanism of tectonics of Altay area. Zhang, X.B., et al. [1993.chi] 50-2363
- Field guide to the Churchill region, Manitoba. Dredge, L.A., [1992.eng] 50-3910
- Geological investigations on the Novosibirsk Islands. Paech, H.J., [1995.eng] 50-2107
- Geological mapping of Svalbard tectonic fault zone. McCann, A.J., et al. [1996.eng] 50-4232
- Geological structure of the Laptev Ocean shelf. Kim, V.I., et al. [1995.eng] 50-2108
- Geological transect of the Brooks Range, Alaska. Kelley, J.S., et al. [1995.eng] 50-5198
- Geology and tectonic evolution of Germanialhalvøya, Spitsbergen. Piepjohn, K., et al. [1994.ger] 50-1577
- Geology of a Spitsbergen fault zone. Lamar, D.L., et al. [1995.eng] 50-4296
- Geology of the Red Mountain gold deposit in British Columbia. Greig, C.J., et al. [1994.eng] 50-84
- Geomorphological and neotectonic features of Hurd Peninsula, Livingston Island, South Shetland Islands. Pallàs, R., et al. [1995.eng] 50-1337
- Geostatistical analysis of waterflood recoveries from an Alaskan drillsite. Wolcott, D.S., et al. [1991.eng] 50-1757
- Glacially-influenced Yakataga Formation on Middleton I. Eyles, C.H., et al. [1990.eng] 50-934
- Gravimetric investigation of permafrost on the Blockglaciers Murtel-Corvatsch (Oberengadin). Klingel, E., et al. [1993.ger] 50-4909
- Marine geophysical investigations in the Laptev Sea and the western part of the East Siberian Sea. Roeser, H.A., et al. [1995.eng] 50-2106
- Neotectonic framework of the boundary of the Qinghai-Xizang Plateau. Wu, X.H., et al. [1992.chi] 50-1501
- New development in the study on Carboniferous biostratigraphy in northern Xinjiang. Liao, Z.T., et al. [1993.chi] 50-2356
- New regional mapping project in Vernon map area, British Columbia. Thompson, R.I., et al. [1994.eng] 50-85
- Optimal fracture stimulation of a moderate permeability reservoir, Kuparuk River unit. Pearson, C.M., et al. [1991.eng] 50-1701
- Paleogeography of Cenozoic lithofacies and their evolution in the Qaidam Basin. Yang, Z.L., [1986.chi] 50-1982
- Paleozoic petroleum source rocks in Saskatchewan and Manitoba. Osadetz, K.G., et al. [1995.eng] 50-232
- Petroleum in glacially-related sandstones of Gondwana: a review. Potter, P.E., et al. [1995.eng] 50-3252
- Petroleum resources of the Mackenzie Delta and Beaufort Sea. Dixon, J., et al. [1994.fre] 50-3319
- Preliminary stratigraphy from Lansing map area, Yukon Territory. Roots, C., et al. [1994.eng] 50-80
- Problem on dividing the neotectonic units in Xinjiang. Bai, M.X., [1985.chi] 50-2008
- Proceedings [1994.eng] 50-1531
- Remote sensing of East Greenland mafic intrusion lithology. Birnie, R.W., et al. [1989.eng] 50-3935
- Reservoir potential of an upwelling deposit, Prudhoe Bay. Kupecz, J.A., [1995.eng] 50-6551
- Seismic reflection data from the Fram Strait. Jokat, W., et al. [1995.eng] 50-2541
- Stratigraphic and structural setting of mineral deposits in British Columbia. Davies, A.G.S., et al. [1994.eng] 50-83
- Structural pattern and tectonic history of the Laptev Sea region. Drachev, S.S., et al. [1995.eng] 50-2105
- Sulfide occurrences in northwestern British Columbia. Gunning, M.H., et al. [1994.eng] 50-82
- Tectonic features of the northwestern Qinghai-Xizang Plateau. Pan, Y.S., [1992.chi] 50-1500
- Tectonic framework of the Teslin region, southern Yukon Territory. Gordy, S.P., et al. [1994.eng] 50-81
- Tectonic records derived from petrology at a glacier fringe. Pavlis, T.L., et al. [1995.eng] 50-1833
- Geological maps**
- Antarctic bottom topography and its representation on new bathymetric charts. Marova, N.A., [1993.rus] 50-4509
- Geologic and hydrogeologic mapping of Iceland with multisensor data. Münzer, U., et al. [1992.eng] 50-617
- Geological map (1:25,000) of the SW part of Wedel Jarlsberg Land. Czerny, J., et al. [1993.eng] 50-2197
- Geology of a Spitsbergen fault zone. Lamar, D.L., et al. [1995.eng] 50-4296
- Geology of the Red Mountain gold deposit in British Columbia. Greig, C.J., et al. [1994.eng] 50-84
- Geomorphological mapping by remote sensing in Spitsbergen. Ståle, G., et al. [1994.ger] 50-1583
- New regional mapping project in Vernon map area, British Columbia. Thompson, R.I., et al. [1994.eng] 50-85
- Preliminary stratigraphy from Lansing map area, Yukon Territory. Roots, C., et al. [1994.eng] 50-80
- Stratigraphic and structural setting of mineral deposits in British Columbia. Davies, A.G.S., et al. [1994.eng] 50-83
- Subsurface seismotectonistatigraphic mapping at Anchorage. Schmoll, H.R., et al. [1986.eng] 50-483
- Sulfide occurrences in northwestern British Columbia. Gunning, M.H., et al. [1994.eng] 50-82
- Tectonic framework of the Teslin region, southern Yukon Territory. Gordy, S.P., et al. [1994.eng] 50-81
- Geological surveys**
- 1995 annual report on Alaska's mineral resources. Schneider, J.L., ed. [1995.eng] 50-5664
- Acquisition and processing of remote sensing data on ore deposits. Guo, H.D., et al. [1993.chi] 50-2380
- Analysis on metamorphism of Eritx structural belt in northern Xinjiang. Sui, J.X., [1993.chi] 50-2370
- Basic features of glacial landforms in the Minshan. Tang, B.X., et al. [1994.eng] 50-4783
- Bedrock geologic research in Glacier Bay National Park. Brew, D.A., et al. [1995.eng] 50-3732
- Biennial report 1993-1994, Alaska. University. Geophysical Institute, [1995.eng] 50-2450
- Carboniferous litho facies-paleogeography and its tectonic condition in northern Xinjiang. Wei, Z.L., et al. [1993.chi] 50-2367
- Carboniferous siliceous rock and its relation to metallic sulfide deposits in northern Xinjiang. Yang, W.H., et al. [1993.chi] 50-2358

Geology

Geology

- CASP annual report—1 February 1995-31 January 1996. Cambridge Arctic Shelf Programme. [1996,eng] 50-4794
- Central Appalachian periglacial geomorphology: a field excursion guidebook. Clark, G.M., ed. [1992,eng] 50-3712
- Changes in the Late Cenozoic environment of the Gonghe Basin in Qinghai. Xu, S.Y. [1986,chi] 50-1983
- Characteristics of the post-glacial advance and retreat in Mount Xixia Bangma region. Zheng, B.X. [1982,chi] 50-6606
- Contributions to polar geomorphology by the German Spitsbergen expeditions 1990-1992. Blümel, W.D. [1993,eng] 50-1672
- Contributions to research on Tibet. Pörtge, K.H., ed. et al. [1994,ger] 50-4774
- Cretaceous and Tertiary deposits in southern Xizang. Zhou, Z.C., et al. [1992,chi] 50-1502
- Cretaceous to recent extension in the Bering Strait region, Alaska. Dumitru, T.A., et al. [1996,eng] 50-3714
- Cretaceous/Tertiary marine stratigraphy and petroleum potential, Tarim Basin. Tang, T.F., et al. [1989,chi] 50-1847
- Double wedging model for the Qinghai-Xizang Plateau. Zheng, J.D., [1992,chi] 50-1505
- Driving stress, hydraulic head and landform genesis at the southeastern Burroughs Glacier. Gaffield, S.G., et al. [1995,eng] 50-3740
- Early Pleistocene glaciation in the Qinling Mountains of China. Rost, K.T. [1992,ger] 50-1682
- Earth Sciences. X Haili Antarctic Expedition, 1994-95: field data reports. Italian Antarctic Research Programme. [1995,eng] 50-4390
- Earthquake induced landslide in Anchorage, 1964. Updike, R.G., et al. [1988,eng] 50-401
- Electrical and magnetic methods for gold exploration. Shi, K.F., et al. [1993,chi] 50-2387
- Environment and resources of the Qinghai-Xizang Plateau. Liu, T.S., [1992,chi] 50-1476
- Ertix volcanic rocks and tectonic evolution. Yu, X.Y., et al. [1993,chi] 50-2364
- Evolutional and genetic mechanism of tectonics of Altay area. Zhang, X.B., et al. [1993,chi] 50-2363
- Evolving description of a fractured carbonate reservoir: the Lisburne Field. Prudhoe Bay, Alaska. Missman, R.A., et al. [1991,eng] 50-1755
- Expedition ARKTIS-X/2 of RV *Polarstern* in 1994. Hubberten, H.W., ed. [1995,eng] 50-1548
- Field guide to the Churchill region. Manitoba. Dredge, L.A., [1992,eng] 50-3910
- First appearance of Himalayas and its relation to global climatic events. Xu, Q.Q., [1992,chi] 50-1504
- Genetic types of granitoids and their mineralization in northern Xinjiang. Wang, Z.G., et al. [1993,chi] 50-2359
- Geochemical correlation between coarse and fine fractions of till in southern Finland. Tarvainen, T., [1995,eng] 50-2705
- Geochemistry of the Ulungur-Zhaisanpo tectonic melange belt. Liu, W., et al. [1993,chi] 50-2366
- Geological evolution and diagenetic mineralization in Xinjiang. Tu, G.Z., [1993,chi] 50-2351
- Geological mapping of Svalbard tectonic fault zone. McCann, A.J., et al. [1996,eng] 50-4232
- Geological transect of the Brooks Range, Alaska. Kelley, J.S., et al. [1995,eng] 50-5198
- Geology and mineralogy of some important nonmetal deposits. Cao, J.C., et al. [1993,chi] 50-2379
- Geology and mining in Svalbard. Cipitelli, G., [1994,ita] 50-2820
- Geology and tectonic evolution of Germanialhøvya, Spitsbergen. Piepjohn, K., et al. [1994,ger] 50-1577
- Geology of a Spitsbergen fault zone. Lamar, D.L., et al. [1995,eng] 50-4296
- Geology of the Red Mountain gold deposit in British Columbia. Greig, C.J., et al. [1994,eng] 50-84
- Geomorphological altitude zones in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4775
- Geomorphological mapping by remote sensing in Spitsbergen. Stålelin, G., et al. [1994,ger] 50-1583
- Geophysical model of ore-bearing rock in Xinjiang. Zhang, S.Z., et al. [1993,chi] 50-2383
- Geophysical prospecting methods for Cu-Ni minerals. Zhang, S.Z., et al. [1993,chi] 50-2381
- Geoscientific Spitsbergen Expedition 1990-1992. Blümel, W.D., ed. [1994,ger] 50-1574
- Geostatistical analysis of waterflood recoveries from an Alaskan drillsite. Wolcott, D.S., et al. [1991,eng] 50-1757
- Glacial geology and petrography of erratics in Shackleton Range, Antarctica. Höfle, H.C., et al. [1995,eng] 50-1525
- Glacial processes, sediments, landforms, and stratigraphy at Myrdalsjökull. Krüger, J., [1994,eng] 50-166
- Glacier fluctuations and sediment yields in Glacier Bay, Cai, J.K., et al. [1995,eng] 50-3733
- Global change research at Glacier Bay National Park. Powell, R.D., [1995,eng] 50-3731
- Gold mineralization in western Junggar. Shen, Y.C., et al. [1993,chi] 50-2371
- Gondwana stratigraphy in the Qinghai-Xizang Plateau. Yin, J.X., [1992,chi] 50-1503
- Great Qinghai-Xizang ice sheet. Han, T.L., [1991,chi] 50-2176
- High-alkaline intrusive rock belts in northern Xinjiang. Wang, Z.G., et al. [1993,chi] 50-2362
- Hot springs in the Hoh Xil Mountains. Zheng, X.S., et al. [1992,chi] 50-1507
- Iceberg furrows as paleowind indicators in Lake Ojibway. Veilleux, J.J., et al. [1996,eng] 50-2498
- Inquiry on ice ages in Mount Xixia Bangma region. Shi, Y.F., et al. [1982,chi] 50-6605
- Isotope geochemistry and crustal evolution of northern Xinjiang. Hu, A.Q., et al. [1993,chi] 50-2353
- Late Cenozoic geology and environmental evolution of the Qaidam Basin in Qinghai. [1986,chi] 50-1981
- Late Pleistocene environment of north China. Zheng, H.H., et al. [1991,chi] 50-1844
- Late Quaternary glaciation history and landscape development in Spitsbergen. Blümel, W.D., et al. [1994,ger] 50-1578
- Late Quaternary sediments of the Qinghai-Xizang Plateau. Frenzel, B., et al. [1994,ger] 50-4779
- Late Quaternary stratigraphy and glaciology in the Thule area, Northwest Greenland. Funder, S., ed. [1990,eng] 50-5169
- Lichens and rocks: a review. Easton, R.M., [1994,eng] 50-1252
- Limestone karst morphology in the Himalayas of Nepal and Tibet. Waltham, A.C., [1996,eng] 50-4875
- Mafic intrusive body bearing Cu-Ni mineralization in Xinjiang. Yuan, Q.L., et al. [1993,chi] 50-2376
- Magmatic activities and its relation to tectonic setting and gold mineralization in western Junggar. Jin, C.W., et al. [1993,chi] 50-2360
- Metallogenic geology and geochemistry related to Ertix volcanism. Liu, T.G., et al. [1993,chi] 50-2375
- Metallogenic mechanism of Cu in Altay. Li, Z.C., [1993,chi] 50-2374
- Metallogenic mechanism of tungsten deposit in Alatau. Wang, K.R., et al. [1993,chi] 50-2373
- Muon μ -particle: a new technique for mineral exploration. Zhou, D.Z., [1993,chi] 50-2382
- Neotectonic framework of the boundary of the Qinghai-Xizang Plateau. Wu, X.H., et al. [1992,chi] 50-1501
- New advances in solid earth sciences in northern Xinjiang. Tu, G.Z., ed. [1993,chi] 50-2350
- New development in the study on Carboniferous biostratigraphy in northern Xinjiang. Liao, Z.T., et al. [1993,chi] 50-2356
- New improvement of mathematical geology applying in gold mineralization. Shen, B.M., et al. [1993,chi] 50-2386
- New paleontological evidence for continental drift in the Qinghai-Xizang Plateau. Wen, S.X., [1992,chi] 50-1506
- New regional mapping project in Vernon map area, British Columbia. Thompson, R.I., et al. [1994,eng] 50-85
- Ny Friesland Orogen, Spitsbergen. Harland, W.B., et al. [1992,eng] 50-5155
- Oil and gas fields of Qinghai and Xizang. Gu, S.S., ed. [1990,chi] 50-2177
- On ancient ice-sheet and ice age in the Tibetan Plateau. Xu, D.M., et al. [1995,chi] 50-5632
- On the paleoclimatology of the Tibetan Plateau during the last glaciation. Frenzel, B., [1994,ger] 50-4777
- Ophiolite belts and their genetic environment in western Junggar. Zhang, C., et al. [1993,chi] 50-2355
- Organic carbon in late Quaternary Arctic Ocean sediments. Schubert, C.J., [1995,ger] 50-2454
- Overlapping mineralization of Karatongki Cu-Ni deposit. Zhan, X.Z., [1993,chi] 50-2377
- Paleoecological study of Pleistocene mountain vegetation patterns. Gregory, K.M., et al. [1996,eng] 50-5081
- Paleogeography of Cenozoic lithofacies and their evolution in the Qaidam Basin. Yang, Z.L., [1986,chi] 50-1982
- Paleomagnetism of a glaciogenic sequence, South Australia. Schmidt, P.W., et al. [1995,eng] 50-411
- Paleomagnetism of Icelandic lava piles. Kristjánsson, L., et al. [1995,eng] 50-4948
- Paleozoic petroleum source rocks in Saskatchewan and Manitoba. Osadetz, K.G., et al. [1995,eng] 50-232
- Paleozoic stratigraphy of ophiolites and their tectonic setting in Xinjiang. Wu, H.R., et al. [1993,chi] 50-2361
- Pb isotope province and geochemical prospecting in northern Xinjiang. Zhu, B.Q., et al. [1993,chi] 50-2354
- Pb-Zn-Au deposits in Carboniferous strata of northern Xinjiang. Yang, W.H., et al. [1993,chi] 50-2357
- Periglacial deformations at an archaeological dig near Salzgitter. Preul, F., [1985,ger] 50-2790
- Periglacial phenomena found in Mount Xixia Bangma region. Zheng, B.X., et al. [1982,chi] 50-6607
- Petroleum exploration opportunities on the U.S.-Russia Chukchi Sea continental shelf. Warren, T., et al. [1995,eng] 50-210
- Petroleum resources of the Mackenzie Delta and Beaufort Sea. Dixon, J., et al. [1994,fre] 50-3319
- Plate and terrain tectonics of northern Xinjiang. Cao, R.L., et al. [1993,chi] 50-2352
- Pleistocene glaciations in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1993,eng] 50-1677
- Plio-Pleistocene foraminiferal stratigraphy in North Greenland. Feyling-Hanssen, R.W., [1990,eng] 50-5171
- Plio-Pleistocene stratigraphy and paleobotany of the Kap København Formation. Bennike, O., [1990,eng] 50-5170
- Preliminary stratigraphy from Lansing map area, Yukon Territory. Roots, C., et al. [1994,eng] 50-80
- Preliminary study on fossil dunes in the Qaidam Basin. Zhong, D.C., [1986,chi] 50-1990
- Principal mineral resources and their distribution on the Qinghai-Xizang Plateau. Xu, Z.Y., et al. [1991,chi] 50-2295
- Problems of metallogeny of the Arctic. Dodin, D.A., et al. [1994,eng] 50-1207
- Proceedings of the first symposium on the Qinghai-Xizang Plateau. China Society of Qinghai-Xizang Plateau Research, Symposium, 1st, Mar. 1990, [1992,chi] 50-1475
- Proceedings. Glacier Bay Science Symposium, 3rd. Glacier Bay National Park and Preserve, Gustavus, AK, Sep. 15-18, 1993. [1995,eng] 50-3730
- Products of subglacial volcanic eruptions under different ice thicknesses. Smellie, J.L., et al. [1994,eng] 50-2993
- Qinghai-Xizang Plateau during the maximum glaciation. Shi, Y.F., et al. [1995,chi] 50-5616
- Quaternary fluvio-morphological processes. Bibus, E., et al. [1995,eng] 50-2747
- Quaternary geology and geomorphology of Mount Xixia Bangma region. Liu, D.S., et al. [1982,chi] 50-6602
- Quaternary geology and the last two glaciations in Alberta. Jackson, L.E., Jr., [1994,eng] 50-86
- Quaternary geology of the Buchans area, Newfoundland: implications for mineral exploration. Klassen, R.A., et al. [1996,eng] 50-6634
- Quaternary glaciations in the eastern and central Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4776
- Quaternary loess and stratigraphy in Inner Mongolia. Dong, G.R., et al. [1986,chi] 50-1991
- Quaternary processes in eastern China and international correlation. Yang, Z.G., et al. [1993,chi] 50-1843
- Rare earths in the granitoids of the Altay region. Zhao, Z.H., et al. [1993,chi] 50-2368
- Regional geochemistry of Alatau region. Li, S.G., et al. [1993,chi] 50-2369
- Regional metallogenic model of Alatau region. Man, F.S., et al. [1993,chi] 50-2372
- Remote sensing for mineral exploration in northern Xinjiang. Guo, H.D., et al. [1993,chi] 50-2384
- Remote sensing of East Greenland mafic intrusion lithology. Birnie, R.W., et al. [1989,eng] 50-3935
- Report on the Mount Xixia Bangma region scientific expedition, 1964. [1982,chi] 50-6593
- Research on clay minerals in salt lakes of China. Xu, C., [1993,chi] 50-1850
- Russia opens far east offshore. [1993,eng] 50-5440
- Sediments in the Liefdefjord and Woodfjord of Spitsbergen. Kroemer, E.A., et al. [1994,eng] 50-1580
- Sequence of glacial ice flows in Abitibi-Timiskaming. Veilleux, J.J., et al. [1996,eng] 50-2499
- Shrinking of Quaternary lakes and environmental changes on the Tibetan Plateau. Zhao, Y.T., [1994,eng] 50-4781
- Sino-Kazakhstan-Mongolia border area tectonics from satellite data. Yang, D.C., et al. [1993,chi] 50-2385
- Stable isotopic character of mineralization of some deposits in northern Xinjiang. Zhang, G.X., et al. [1993,chi] 50-2378
- Stratigraphic and structural setting of mineral deposits in British Columbia. Davies, A.G.S., et al. [1994,eng] 50-483
- Studies on Holocene fluvial geomorphodynamics on the upper Oberwaser. Thomas, J., [1993,ger] 50-2769
- Study on the sequences of the Quaternary glaciations in the Bayan Har Mountains. Zhou, S.Z., [1995,chi] 50-5633
- Submarine cryolithozone of Russian Arctic off-shore: problems of hydrocarbon recovery. Kul'pin, L.G., et al. [1995,eng] 50-2961
- Subsurface seismotectonigraphic mapping at Anchorage. Schmoll, H.R., et al. [1986,eng] 50-483
- Sulfide occurrences in northwestern British Columbia. Gunning, M.H., et al. [1994,eng] 50-82
- System of climatic geomorphology based on landscape typing. Hövermann, J., [1990,ger] 50-1782
- Tectonic features of the northwestern Qinghai-Xizang Plateau. Pan, Y.S., [1992,chi] 50-1500
- Tectonic framework of the Teslin region, southern Yukon Territory. Gorday, S.P., et al. [1994,eng] 50-81
- Tectonic significance of alpine eclogites. Spalla, M.I., et al. [1996,eng] 50-5572
- Trace element geochemistry of volcanic rocks along the Ertix River. Mei, H.J., et al. [1993,chi] 50-2365
- U.S.G.S. Geotectonical Investigation—Beaufort Sea, Alaska, 1979, Vol.1. Bruggers, D.E., et al. [1979,eng] 50-3313
- Valley bottoms in the late Quaternary. Schürmer, W., [1995,eng] 50-2748
- Vendian glaciations and their relation to the dispersal of Rodinia: paleomagnetic constraints. Torsvik, T.H., et al. [1995,eng] 50-663
- West Antarctic ice sheet removal of subglacial volcanic artefacts. Behrendt, J.C., et al. [1995,eng] 50-2530
- West Siberian Quaternary stratigraphy. Arkhipov, S.A., et al. [1994,eng] 50-1210
- Geology**
- Antarctic geography. Siple, P.A., [1956,eng] 50-6095
- Antarctic Walk Environmental Research Expedition, 1991-1993. Yoshikawa, K., ed. et al. [1995,eng] 50-4381
- Bank of arctic seismological data. Avestisov, G.P., et al. [1995,eng] 50-6528
- Compositional variation of laurite in an alpine ultramafic complex in the Polar Urals. Anikina, E.V., et al. [1995,rus] 50-4108
- Geo-ecological problems of the oil and gas complex in Yamal. Mel'nikov, E.S., et al. [1990,rus] 50-1599
- Geology of the eastern coast of Discovery Bay, Greenwich Island and the South Shetlands. Rudowski, S., [1989,pol] 50-2880
- Inland ice and nunataks, Queen Maud Land. Swithinbank, C., [1959,eng] 50-6202
- Japanese antarctic activities for 1995-1996. Tokyo. National Institute of Polar Research, [1996,eng] 50-2608

Geomagnetism

- New data on the geology and paleogeography of the Late Pliocene-Middle Pleistocene in Eurasia. Kostiaev, A.G., [1996.rus] 50-6355
- Problems in protecting the geological environment; in the example of Eastern Siberia. Finneker, E.V., ed. [1993.rus] 50-91
- Stratigraphy of valley sediments of Polish river drainage basins. Superson, J., [1995.eng] 50-2616
- See [also]: Engineering geology; Glacial geology; Hydrogeology; Marine geology
- Geomagnetism**
- Appearance of F2 and Es modes during oblique-incidence sounding in the high latitude ionosphere. Egorova, L.V., et al. [1991.rus] 50-2270
- Electrodynamics of the upper atmosphere and radio aurora in the northern polar cap. Kustov, A.V., et al. [1994.eng] 50-1964
- Flux and fluence of major solar proton events and their record in antarctic snow. Shea, M.A., et al. [1994.eng] 50-4622
- Geophysical studies of the Antarctic Peninsula. Fournier, H.G., [1994.eng] 50-1322
- Magnetic climatology: mineral magnetism and the ice ages. Heller, F., et al. [1996.ger] 50-4743
- Method of conducting observations with a digital component magnetometer at antarctic stations. Gizler, V.A., [1991.rus] 50-1636
- Paleomagnetic age constraints on New Zealand glacial deposits. Fitzsimons, S.J., et al. [1996.eng] 50-6576
- Paleomagnetic constraints on sedimentation rates in the eastern Arctic Ocean. Schneider, D.A., et al. [1996.eng] 50-6707
- Paleomagnetism of Icelandic lava piles. Kristjánsson, L., et al. [1995.eng] 50-4948
- Periodic auroral events at the high-latitude convection reversal in the 16 MLT region. Sandholt, P.E., et al. [1990.eng] 50-4729
- Pleistocene glaciation in northwestern British Columbia. Spooner, I.S., et al. [1995.eng] 50-4526
- Polar cap aurorae tell the time. Egeland, A., et al. [1995.eng] 50-1151
- Polar cap contraction associated with the leading edge of a magnetic cloud. Knipp, D.J., et al. [1996.eng] 50-3071
- Potential character of the distribution of basic physical properties of the polar ionosphere. Shirochikov, A.V., [1991.rus] 50-1637
- Relationship of telluric currents to the corrosion of warm arctic pipelines. Sackinger, W.M., [1991.eng] 50-1725
- Thermospheric neutral winds at Watson Lake, Yukon Territory. Niciejewski, R.J., et al. [1996.eng] 50-6683
- Vendian glaciations and their relation to the dispersal of Rodinia: paleomagnetic constraints. Torsvik, T.H., et al. [1995.eng] 50-663
- West Antarctic ice sheet removal of subglacial volcanic artefacts. Behrendt, J.C., et al. [1995.eng] 50-2530
- Geomorphology**
- Abraded rock landforms (whalebacks) developed under ice streams in mountain areas. Evans, I.S., [1996.eng] 50-6234
- Active patterned ground and cryoturbation on Muckish Mountain, Co. Donegal, Ireland. Wilson, P., et al. [1995.eng] 50-665
- Alpine tree line soil erosion derived from bedrock geomorphological map analysis. Stocker, E., [1996.ger] 50-6678
- Barents Sea ice sheet retreat. Forman, S.L., et al. [1996.eng] 50-5585
- Beach sedimentation on paraglacial coasts. Forbes, D.L., et al. [1995.eng] 50-1119
- Block moraine formation of antarctic glaciers. Fitzsimons, S.J., [1996.eng] 50-6242
- Boundary of permafrost region in east China during last glacial epoch. Xu, S.Y., et al. [1989.chi] 50-1357
- Bunger Hills—its genesis and some physiogeographical problems. Wisniewski, E., [1989.pol] 50-2873
- Case studies of geoprocesses and environmental change in mountains of northern Sweden. Rapp, A., [1995.eng] 50-4187
- Catastrophic drainage from ice-dammed glacial Lake Assiniboine. Wolfe, B., et al. [1995.eng] 50-4881
- Catastrophic mass movements in the mountains around the Qinghai-Xizang Plateau. Fort, M., et al. [1995.eng] 50-4835
- Cenozoic uplift of Fennoscandia inferred from a study of the mid-Norwegian margin. Stuevold, L.M., et al. [1996.eng] 50-5324
- Central Appalachian periglacial geomorphology: a field excursion guidebook. Clark, G.M., ed. [1992.eng] 50-3712
- Channel erosion during flooding of alpine streams. Becht, M., [1996.ger] 50-5251
- Characteristics of applied geomorphological studies in regions with Pleistocene ice sheets. Spiridonov, A.I., [1995.rus] 50-3772
- Climatic controls on rates of solifluction: variations within Europe. Matthews, J.A., et al. [1993.eng] 50-849
- Climatological significance of moraine ridges in Iceland. Krüger, J., [1995.eng] 50-2858
- Coastal Greenland Holocene sea level changes. Rasch, M., et al. [1995.eng] 50-5533
- Comment and reply on paper by Batterson et al. Brookes, I.A., et al. [1995.eng] 50-1083
- Composition and construction of late Pleistocene end moraines. Durango, Colorado. Johnson, M.D., et al. [1995.eng] 50-1859
- Concertina eskers. Brúarjökull, Iceland: an indicator of surge-type glacier behavior. Knudsen, O., [1995.eng] 50-1407

- Cryovolcanism on the icy satellites. Kargel, J.S., [1994.eng] 50-1860
- Danube River fluvial geomorphodynamics during the Quaternary. Buch, M.W., et al. [1995.eng] 50-2749
- Dating of Holocene solifluction in the Austrian Alps. Veit, H., [1993.eng] 50-826
- Dependence of rock stream development on geomorphological-tectonic features. Mal'chikova, I.I.U., [1993.rus] 50-117
- Development of southern Bellsund beaches (West Spitsbergen). Jezierski, W., [1993.eng] 50-2202
- Development of the middle and lower course of the Weser River during the Late Pleistocene. Meinke, K., [1995.eng] 50-2746
- Diamictite facies in the middle glacial periods. Olszewski, A., [1989.pol] 50-2895
- Diamond exploration in glaciated terrain: a Russian perspective. Golubev, I.U.K., [1995.eng] 50-1092
- Differentiation of neotectonic movements in western Sørkapp Land (Spitsbergen). Szczepny, R., [1993.eng] 50-2211
- Early stages of till genesis: an example from Fanore, County Clare, Ireland. Crook, D.G., et al. [1996.eng] 50-5828
- Effect of extreme weather conditions on hydrological phenomena in Spitsbergen. Szczepanik, W., et al. [1989.pol] 50-2914
- Ensemble of periglacial landforms in three dimensions. Karte, J., [1990.ger] 50-1792
- Erosion on Titan: past and present. Lorenz, R.D., et al. [1996.eng] 50-5832
- Erosion rates and sediment evacuation by glaciers. Hallet, B., et al. [1996.eng] 50-5317
- Eskers: an essay of bibliographic review. Levasseur, D., [1995.fre] 50-5042
- Evolution of lowland landscapes in northeastern Asia during Late Quaternary time. Tomirdiario, S.V., [1982.eng] 50-3370
- Evolutional and genetic mechanism of tectonics of Altay area. Zhang, X.B., et al. [1993.chi] 50-2363
- Extent of the Warta Glaciation deposits in the northern foreland of the Lublin upland near Dęblin. Zariski, M., [1993.pol] 50-3669
- Fabric signature of subglacial till deformation. Breidamerkjökull, Iceland. Benn, D.I., [1995.eng] 50-3863
- Features of nivation landforms in the Changbaishan Mts. Song, C.Q., et al. [1995.chi] 50-5627
- Field guide to the Churchill region, Manitoba. Dredge, L.A., [1992.eng] 50-3910
- Fluctuations of the South Patagonian ice-field during the last glaciation and the Holocene. Marden, C.J., et al. [1995.eng] 50-6211
- Fluvial dynamics in the periglacial belt of the central Austrian Alps. Hofner, T., [1995.eng] 50-2751
- Fluvial morphology and streamflow on Deception Island, Antarctica. Inbar, M., [1995.eng] 50-4190
- Formation characteristics of the thermal regime of rocks in the Vitim River. Leibman, M.O., [1985.rus] 50-248
- Formation mechanism of the marginal zone of the Warta ice sheet. Terpiłowski, S., [1993.pol] 50-3666
- Formation of De geer moraines deposited subglacially, central Québec. Beaudry, L.M., et al. [1995.eng] 50-5035
- Forms of unusual patterned ground: examples from the Falkland Islands, South Atlantic. Wilson, P., [1995.eng] 50-2718
- Frost denudation landforms at the hinterland on the Qinghai-Xizang Plateau. Zhang, W.X., et al. [1989.chi] 50-1354
- Gelifluction rates as global change indicators. Kirkby, M.J., [1995.eng] 50-4195
- General geomorphological aspects of the Cumberland Peninsula on Baffin I. Contemiglia, G.C., et al. [1994.ita] 50-2822
- Geochemical process responses to potential Scandinavian climatic change. Dixon, J.C., et al. [1995.eng] 50-4194
- Geology and tectonic evolution of Germanialahvöy, Spitsbergen. Piepjohn, K., et al. [1994.ger] 50-1577
- Geomorphic effects of the retreat of Japama Glacier, Pico de Orizaba Volcano (Mexico). Palacios, D., et al. [1996.eng] 50-5578
- Geomorphological altitude zones in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1994.ger] 50-4775
- Geomorphological and neotectonic features of Hurd Peninsula, Livingston Island, South Shetland Islands. Pallás, R., et al. [1995.eng] 50-1337
- Geomorphological effects of the actions of eolian processes in Oscar II Land (Spitsbergen). Sinkiewicz, M., [1989.pol] 50-2896
- Geomorphological mapping by remote sensing in Spitsbergen. Süblin, G., et al. [1994.ger] 50-1583
- Geomorphology and dynamics of the Laurentide Ice Sheet in Wisconsin. Ham, N.R., [1994.eng] 50-4693
- Geomorphology of the shelf of the South Shetland Islands within the limits of Bransfield Strait. Marsz, A.A., [1989.pol] 50-2884
- Geomorphology of the South Kara shelf. Musatov, E.E., et al. [1992.eng] 50-3437
- Geotectonic evolution of the Qinghai-Xizang Plateau. Chang, C.F., [1992.chi] 50-1498
- Glacial and fluvial geomorphology of western Himalaya (Liddar Valley). Kaul, M.N., [1990.eng] 50-5550
- Glacial cirque formation in northern Scandinavia. Richardson, C., et al. [1996.eng] 50-6246
- Glacial flow systems in the zone of confluence between the Scandinavian and Novaya Zemlya ice sheets. Punkari, M., [1995.eng] 50-2130
- Glacial genesis of the high terraces of the Lower Liswarta River. Kobjek, S., et al. [1993.pol] 50-3660

- Glacial geology and petrography of erratics in Shackleton Range, Antarctica. Hoffe, H.C., et al. [1995.eng] 50-1525
- Glacial isostatic uplift of Tibet as a consequence of a former ice sheet. Kuhle, M., [1995.eng] 50-6064
- Glacial processes, sediments, landforms, and stratigraphy at Myrdalsjökull. Krüger, J., [1994.eng] 50-166
- Glacier retreat and raised beaches at Three Sisters Point. Birkenmajer, K., [1995.eng] 50-3937
- Glaciers and glaciation in Glacier National Park, Montana. Carrara, P.E., [1993.eng] 50-4795
- Glaciofluvial sedimentation in the vicinity of Warka during the Warta Glaciation. Grzybowski, K., [1993.pol] 50-3655
- Glaciological zoning of the Earth. Tushinski, G.K., et al. [1973.rus] 50-421
- Glaciotectonic process at Svalbard. Hambrey, M.J., et al. [1995.eng] 50-6559
- Holocene climate fluctuations and geomorphic impact of extreme events in Svalbard. André, M.F., [1995.eng] 50-4192
- Holocene debris-flow activity in northern Sweden. Jonasson, C., [1993.eng] 50-837
- Holocene glacial chronology in Patagonia: Tyndall and Upsala glaciers. Aniya, M., [1995.eng] 50-2806
- Holocene mass movement on Scottish mountains. Ballantyne, C.K., [1993.eng] 50-831
- Holocene shoreline displacement in southernmost Spitsbergen. Ziaja, W., et al. [1995.eng] 50-5537
- Holocene solifluction at Okstindan, northern Norway: a reassessment. Worsley, P., [1993.eng] 50-829
- Holocene solifluction in the Swiss Alps: dating and climatic implications. Gamper, M., [1993.eng] 50-824
- Holocene variations of Ameghino Glacier, southern Patagonia. Aniya, M., [1995.eng] 50-6081
- Holocene evolution of a stretch of an eastern Italian alpine valley. Friz, C., et al. [1995.eng] 50-6697
- How to make a palisa: a field experiment on permafrost formation. Seppälä, M., [1995.eng] 50-874
- Ice accumulation in rock streams of northern Transbaikalia. Verkhovurov, A.G., [1993.rus] 50-1118
- Ice sheet model test via glacial geological research in West Greenland. Van Tatenhove, F.G.M., et al. [1995.eng] 50-2013
- Iceland glacier drainage and sandar formation. Heim, D., [1992.ger] 50-364
- Icelandic turf-banked terrace geomorphology. Douglas, T.D., et al. [1996.eng] 50-5498
- Identification of elements of fluvio-glacial shapes characteristic of glacial outbursts. Robitaille, A., et al. [1995.fre] 50-5041
- Implications of frost heave for patterned ground, Tibet Plateau, China. Wang, B.L., et al. [1995.eng] 50-2808
- Influence of local factors on solifluction rates, Spitsbergen, Svalbard. Repelewski-Pekalowa, J., et al. [1993.eng] 50-842
- Influence of pocket gophers on the status of nutrients in alpine soils. Litaor, M.I., et al. [1996.eng] 50-4951
- Interpretation of faults in glaciofluvial sediments. McDonald, B.C., et al. [1975.eng] 50-4810
- Is there any real evidence for a huge shelf ice sheet in East Siberia? Sher, A., [1995.eng] 50-499
- Italian research on solifluction in the Alps. Meneghel, M., [1993.eng] 50-827
- Karakorum ice cover variations during the last glaciation. Kuhle, M., [1994.eng] 50-1533
- Kulshan caldera: a Quaternary subglacial caldera in the North Cascades, Washington. Hildreth, W., [1996.eng] 50-6547
- Laboratory exercise introducing glacial geomorphology. Harbor, J.M., et al. [1995.eng] 50-3861
- Land form development and pedogenesis: the effects of the last glacial cycle in the forest of Fougères (Ille et Villaine, Brittany, France). Van Vlier-Landot, B., et al. [1995.fre] 50-2996
- Landform and sediment associations of dry-based glaciers in arid polar environments. Humphreys, K.A., et al. [1996.eng] 50-6577
- Landforms associated with Pleistocene glaciation in Ireland. Wilson, P., et al. [1995.eng] 50-5486
- Landscape damage by skiing at the Schauinsland in the Black Forest, Germany. Ries, J.B., [1996.eng] 50-4234
- Late Weichselian deglaciation in the Murman offshore. Samoilovich, I.U.G., et al. [1993.eng] 50-2210
- Lateglacial and Holocene variations of the Grey Glacier, an outlet of the South Patagonian icefield. Marden, C.J., [1993.eng] 50-3013
- Lichenometric analysis of the Kärkerieppe slush-avalanche fan, Kärkevegge, Sweden. Bull, W.B., et al. [1995.eng] 50-4191
- Lichenometric dating of arctic/alpine slope processes. McCarroll, D., [1993.eng] 50-847
- Limestone karst morphology in the Himalayas of Nepal and Tibet. Waltham, A.C., [1996.eng] 50-4875
- Mass exchange between meltwater streams and proglacial deposits. Holmlund, P., et al. [1996.eng] 50-6241
- Mass movements in glaciomarine sediments on the Barents Sea continental slope. Kuvaas, B., [1996.eng] 50-5321
- Mechanism of the development of the Pomeranian Phase marginal zone in the Lake Drawa district. Kąsz, P., [1990.pol] 50-5004
- Moraine formation from subglacial frozen sedimentation. Krüger, J., [1996.eng] 50-5830
- Moraines and buried ice in Terra Nova Bay area. Meneghel, M., et al. [1994.ita] 50-2825
- Mountain permafrost and slope instability in the Italian Alps: the Val Pola landslide. Dramis, F., et al. [1995.eng] 50-669

Geophysical surveys

Geophysical surveys

- Natural vegetation complexes of the Northern Dvina River floodplain. Vekhov, N.V., [1995,eng] 50-4699
- Neotectonic framework of the boundary of the Qinghai-Xizang Plateau. Wu, X.H., et al., [1992,chi] 50-1501
- New Zealand talus-derived rock glacier climatic responses. Kirkbride, M., et al., [1995,eng] 50-6561
- Nivation in the High Tatras, Poland. Rączkowska, Z., [1995,eng] 50-4193
- Norwegian gelifluction stages from dated buried soils. Nesje, A., [1993,eng] 50-828
- Note on rock glaciers in the Albanian Alps. Palmentola, G., et al., [1996,eng] 50-6702
- Numerical landscapes: static, kinematic and dynamic process-form relations. Richards, K., et al., [1995,eng] 50-4153
- Observations of the grounding-line area at a floating glacier terminus. Powell, R.D., et al., [1996,eng] 50-6264
- Ocean bottom trenching by an Icelandic glacier. Björnsson, H., [1996,eng] 50-6252
- Off-rift and rift-zone palaeostresses in northwest Iceland. Gudmundsson, A., et al., [1996,eng] 50-6207
- Old moraines in Lågnesfjella (Western Spitsbergen). Musiał, A., [1989,pol] 50-2891
- Origin of till sequences beneath mid-latitude ice sheets. Boulton, G.S., [1996,eng] 50-6243
- Palaeocryogenic analysis of loess-paleosol sequences. Velichko, A.A., et al., [1995,eng] 50-1036
- Palaeoclimatic changes on the northern side of the central Himalaya. Fort, M., [1996,eng] 50-5096
- Palaeoclimatic implications of Norwegian postglacial avalanches. Blikra, L.H., et al., [1993,eng] 50-835
- Palaeoclimatic reconstructions from antarctic volcanic ash deposits. Marchant, D.R., et al., [1996,eng] 50-4233
- Palaeoecological implications of frost-shattered sediments on the Norwegian coast. Blikra, L.H., et al., [1995,eng] 50-2167
- Palaeogeographic significance of Norwegian block field periglacial processes. Sellier, D., [1995,eng] 50-4878
- Palaeogeographical studies of permafrost in the eastern Taymyr lowland. Siebert, C., et al., [1995,eng] 50-2092
- Palaeogeology: subject and methods, tasks and achievements. Avisiuk, G.A., et al., [1972,rus] 50-537
- Past and present glacial landforms of the central Qilian Shan. Lehmkühn, F., [1995,ger] 50-6077
- Periglacial deformations at an archaeological dig near Salzgitte. Preul, F., [1985,ger] 50-2790
- Periglacial landforms and sediments. Semmel, A., [1990,ger] 50-1793
- Permafrost influence on glacier sediment deformation. Ezzelmueller, B., et al., [1996,eng] 50-6240
- Pleistocene altiplanation in northern Chile. Kött, A., et al., [1995,eng] 50-4947
- Pleistocene geomorphology of Qinghai Lake, China. Nakao, K., et al., [1995,eng] 50-6717
- Pleistocene glaciation of the German uplands as reflected in recent research. Röther, K., [1995,ger] 50-744
- Pleistocene paraglacial landsliding in South Wales. Shakesby, R.A., et al., [1996,eng] 50-5859
- Pleistocene slope deposits related to the Saint-Maurice Rhythmites, St. Lawrence Valley, Québec. Héu, B., et al., [1995,eng] 50-4883
- Pliocene palaeoclimate of Dry Valleys of Southern Victoria Land. Marchant, D.R., et al., [1996,eng] 50-6629
- Post glacial emergence and the Tapes transgression, north-central Kola Peninsula, Russia. Snyder, J.A., et al., [1996,eng] 50-5829
- Problematic ice sheets. Rutter, N.W., [1995,eng] 50-498
- Problems in geocryological studies in northern Yakutia. Liubimirov, A.S., et al., [1991,rus] 50-1304
- Problems of dead ice and ground ice in the central part of the north European plain. Böse, M., [1995,eng] 50-508
- Protalus formation mechanisms in Norwegian sediments. Shakesby, R.A., et al., [1995,eng] 50-3328
- Quaternary fluvio-morphological processes. Bibus, E., et al., [1995,eng] 50-2747
- Quaternary geology and geomorphology of Mount Xixia. Bangma region. Liu, D.S., et al., [1982,chi] 50-6602
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Quaternary sea level history in the Northwest Territories, Canada. Kerr, D.E., [1996,eng] 50-6553
- Radiocarbon dating of buried soils with particular reference to Holocene solifluction. Matthews, J.A., [1993,eng] 50-846
- Rates of rock surface lowering, Princess Elizabeth Land, eastern Antarctica. Spate, A.P., et al., [1995,eng] 50-4149
- Recent drumlins, flutes and lineations at Vestari-Hagafellsjökull, Iceland. Hart, J.K., [1995,eng] 50-1880
- Recent morphogenesis and problems in the geocology of the Russian Arctic. Sen'kin, O.V., et al., [1995,rus] 50-5138
- Regional-scale meltwater erosion and deposition patterns, northern Québec, Canada. Brennand, T.A., et al., [1996,eng] 50-6244
- Relative sea level in the area of Matane (Québec) from deglaciation to present day. Dionne, J.C., et al., [1995,eng] 50-5036
- Relict sorted patterned ground in Rostu, northernmost Sweden. Kling, J., [1996,eng] 50-5581
- Relief of the Breinesfjella plain and Wiederfjället massif in western Sörkapp Land (Spitsbergen). Gebica, P., [1989,pol] 50-2889
- Rock-weathering by the lichen *Lecidea auriculata* in an arctic alpine environment. McCarroll, D., et al., [1995,eng] 50-416
- Role of geomorphological analysis in coastal environmental protection measures. Finarov, D.P., et al., [1992,rus] 50-386
- Satellite regolith frozen ground collapse as solar system geological paradigm. Moore, J.M., et al., [1996,eng] 50-6588
- Scandinavian Pleistocene tectonic correlations. Riis, F., [1996,eng] 50-5323
- Scottish landform examples. 8: Solifluction sheets in the Bowmont Valley. Cheviot Hills. Harrison, S., [1993,eng] 50-3015
- Scottish landform examples. 9: Moraines in Coire na Creiche. Isle of Skye. Benn, D.I., [1993,eng] 50-3016
- Sea levels in Petuniabukta—central Spitsbergen. Stankowski, W., [1989,pol] 50-2887
- Sedimentary structures of cold-climate coastal dunes, eastern Hudson Bay, Canada. Ruz, M.H., et al., [1995,eng] 50-3862
- Sedimentology and geomorphology of drumlins in western Allgäu, south Germany. De Jong, M.G.G., et al., [1982,eng] 50-3381
- Sedimentology and geomorphology of fjords. Syvitski, J.P.M., et al., [1995,eng] 50-1116
- Sedimentology of the Brampton esker in Ontario. Sanderson, H.C., [1975,eng] 50-4812
- Seismo-acoustic studies in a flooded caldera on Deception Island. Kowalewski, W., et al., [1989,pol] 50-2878
- Slope processes and climate in the Abisko Mountains, northern Sweden. Rapp, A., et al., [1993,eng] 50-836
- Snowmelt and slush torrents in Swedish Lapland. Gude, M., et al., [1995,eng] 50-4188
- Snowpack influences on geomorphic processes in Green Lakes Valley, Colorado Front Range. Caine, N., [1995,eng] 50-1404
- Soil geomorphology on Alaskan permafrost terrain. Swanson, D.K., [1996,eng] 50-6518
- Solifluction and climate in the Holocene: a North American perspective. Smith, D.J., [1993,eng] 50-834
- Solifluction and climatic variation in the Holocene. Frenzel, B., ed., et al., [1993,eng] 50-823
- Solifluction and climatic variation in the Holocene: discussion and synthesis. Matthews, J.A., et al., [1993,eng] 50-848
- Solifluction and creep rates 1972-1991. Kapp Linné, West Spitsbergen. Åkerman, H.J., [1993,eng] 50-841
- Solifluction and related slope processes in the mountains of central Asia (Mongolia). Pekala, K., et al., [1993,eng] 50-832
- Solifluction controls in the French Alps. Pissart, A., [1993,eng] 50-839
- Solifluction in northern Eurasia: a review. Serebrianniy, L.R., et al., [1993,eng] 50-833
- Solifluction in northern Finland: past and present. Seppälä, M., [1993,eng] 50-830
- Solifluction in the Arctic and subarctic during the Holocene. Van Vliet-Lanoë, B., [1993,eng] 50-844
- Solifluction in the Swedish mountains. Ulfstedt, A.C., [1993,eng] 50-840
- Solifluction in the Swiss Alps and Bolivia. Graf, K., [1993,eng] 50-838
- Spruce succession, disturbance, and geomorphology on the Tanana River floodplain, Alaska. Mann, D.H., et al., [1995,eng] 50-2159
- Steepland geomorphology. Slaymaker, O., ed., [1995,eng] 50-4827
- Stratigraphy of Yorkshire, England glacial deposits. Evans, D.J.A., et al., [1995,eng] 50-6213
- Submerged terraces in the Barents Sea. Lebesbye, E., et al., [1996,eng] 50-4876
- Supraglacial debris transport over time. Whalley, W.B., et al., [1996,eng] 50-6258
- Supraglacial sediment accretion in Icelandic glaciers. Näslund, J.O., et al., [1996,eng] 50-4904
- Suprapermafrost groundwater seepage in gravelly terrain, Resolute, NWT, Canada. Woo, M.K., et al., [1995,eng] 50-668
- System of Cenozoic rifts in the eastern Arctic and its possible implications. Bogdanov, N.A., et al., [1995,rus] 50-4121
- Tectonic features of the northwestern Qinghai-Xizang Plateau. Pan, Y.S., [1992,chi] 50-1500
- Thermal erosion in high arctic ecosystems in Spitsbergen. King, L., et al., [1993,eng] 50-843
- Thermal regime of Holocene Greenland ice sheet moraine formation. Van Tatenhove, F.G.M., et al., [1996,eng] 50-5582
- Tree-ring dating of extreme water level events at Lake Bienville, subarctic Québec, Canada. Lepage, H., et al., [1996,eng] 50-4339
- Tunnel valley genesis. Cofaigh, C.O., [1996,eng] 50-5012
- Valley bottoms in the late Quaternary. Schirmer, W., [1995,eng] 50-2748
- Volcanic and tectonic history of Enceladus. Kargel, J.S., et al., [1996,eng] 50-3864
- Volcanic eruption at a New Zealand ski resort prompts reevaluation of hazards. Ruapehu Surveillance Group, [1996,eng] 50-5501
- Wutach gorge in SW Germany: late Würmian (periglacial) downcutting versus Holocene processes. Einsle, G., et al., [1995,eng] 50-2750
- XX Polar Symposium. Man impact on polar environment. Polar Symposium, 20th, Lublin, Poland, June 3-5, 1993, [1993,eng] 50-2180
- Geophysical surveys**
- Acquisition and processing of remote sensing data on ore deposits. Guo, H.D., et al., [1993,chi] 50-2380
- Analysis of interference effects of surface-impedance mapping of glacier thickness. Thiel, D.V., et al., [1996,eng] 50-4889
- Archive of digital data from the Defense Meteorological Satellite Program (DMSP). Kroehli, H.W., et al., [1994,eng] 50-5076
- Arctic systems: natural environments, human actions, nonlinear processes. International Arctic Science Committee, [1995,eng] 50-5302
- Avalanche mapping and related G.I.S. applications in the Catalan Pyrenees. Furdada, G., et al., [1995,eng] 50-1061
- Bank of arctic seismological data. Avetisov, G.P., et al., [1995,eng] 50-6528
- Bedrock geologic research in Glacier Bay National Park. Brew, D.A., et al., [1995,eng] 50-3732
- Biennial report 1993-1994. Alaska. University. Geophysical Institute, [1995,eng] 50-2450
- Classification of wetland and muskeg terrain. Pietroniro, A., et al., [1996,eng] 50-5541
- Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar. Zeng, X.X., et al., [1995,eng] 50-1804
- Correction of satellite radar altimetry of antarctic ice sheets. Cooper, A.P.R., et al., [1996,eng] 50-5073
- Crustal structure of the Arctic Ocean. Gramberg, I.S., et al., [1992,eng] 50-3439
- Cryospheric indices of global change. Barry, R.G., et al., [1994,eng] 50-4789
- Cryospheric observing systems and data management. Barry, R.G., [1994,eng] 50-3415
- Design of an Airborne Imaging Microwave Radiometer. Paul, J.L., et al., [1992,eng] 50-3570
- Development of an ice information system (IIS) to be implemented at the NERSC. Jacob, A., [1995,eng] 50-2742
- Development of geophysical studies of the cryolithosphere. Frolov, A.D., [1995,rus] 50-2503
- Earth Sciences. X. ItaliAntaride Expedition, 1994-95: field data reports. Italian Antarctic Research Programme, [1995,eng] 50-4390
- Eight-year time series radiometric measurement of snow and sea ice covers. Ferraro, R.R., et al., [1996,eng] 50-5769
- Electrical and magnetic methods for gold exploration. Shi, K.F., et al., [1993,chi] 50-2387
- Evidence for Cenozoic crustal extension in the Bering Sea region. Cooper, A.K., et al., [1992,eng] 50-2565
- Evolutional and genetic mechanism of tectonics of Altay area. Zhang, X.B., et al., [1993,chi] 50-2363
- Expedition ANTARKTIS-XI/3 of *Polarstern* in 1994. Müller, H., ed., et al., [1996,eng] 50-4325
- Expedition ARKTIS-VII/3 of *RV Polarstern* in 1990. Müller, H., ed., et al., [1996,eng] 50-4326
- Expedition ARKTIS-X/2 of *RV Polarstern* in 1994. Hubberten, H.W., ed., [1995,eng] 50-1548
- Fracturing of glacial drift and bedrock over longwall mine panels. Johnston, M.A., et al., [1993,eng] 50-5517
- Fuzzy classification of earth terrain covers using complex polarimetric SAR data. Du, L., et al., [1996,eng] 50-4018
- Geology and tectonic evolution of Germaniavalvøya, Spitsbergen. Piepjohn, K., et al., [1994,ger] 50-1577
- Geophysical and laboratory methods for studying the mechanical characteristics of permafrost. Mamzelev, A.P., [1996,rus] 50-6833
- Geophysical experiments on Ridge B1/B2, Siple Coast. Bentley, C.R., et al., [1994,eng] 50-1888
- Geophysical investigations of cryolithosphere. Scientific papers. Frolov, A.D., ed., [1995,rus] 50-2502
- Geophysical model of ore-bearing rock in Xinjiang. Zhang, S.Z., et al., [1993,chi] 50-2383
- Geophysical prospecting methods for Cu-Ni minerals. Zhang, S.Z., et al., [1993,chi] 50-2381
- Gravimetric investigation of permafrost on the Blockglaciers Murtel-Corvatsch (Oberengadin). Klingel, E., et al., [1993,ger] 50-4909
- Interference fringes from Bering Sea sonar images. Huggett, Q.J., et al., [1992,eng] 50-4250
- Measuring a moving glacier. Sauber, J., et al., [1995,eng] 50-3355
- Meteorological satellite instrumentation. Kidder, S.Q., et al., [1995,eng] 50-3154
- Modelling of permafrost depth in France during the last 120,000 years. Lebrat, P., et al., [1996,eng] 50-4570
- Monitoring soil condition in the northern Tibetan Plateau using SSM/I data. Chang, A.T.C., et al., [1996,eng] 50-6692
- Muon μ -particle: a new technique for mineral exploration. Zhou, D.Z., [1993,chi] 50-2382
- New advances in solid earth sciences in northern Xinjiang. Tu, G.Z., ed., [1993,chi] 50-2350
- New improvement of mathematical geology applying in gold mineralization. Shen, B.M., et al., [1993,chi] 50-2386
- Norway entices exploration groups with improved licensing terms. [1995,eng] 50-2537
- Nuclear submarines and oceanography in the Arctic. DeLaca, T., et al., [1996,eng] 50-3931
- Observations of the geophysical regime as an element in geocryological monitoring. Baulin, I.U.I., et al., [1995,rus] 50-2515
- Oceanic satellites in the Global Ocean Observing System. Sherman, J.W., III, [1993,eng] 50-4801
- Permafrost and thermal interfaces from Norman Wells pipeline ditchwall logs. Nixon, J.F., et al., [1991,eng] 50-1746
- Practical considerations for GRM refraction surveys in glacial terrains. Kassenar, D., et al., [1993,eng] 50-5516
- Remote sensing for mineral exploration in northern Xinjiang. Guo, H.D., et al., [1993,chi] 50-2384
- Results of joint Russian-Canadian geophysical studies of permafrost on the Yamal Peninsula. Burns, R.A., et al., [1995,rus] 50-2507

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- Satellite imagery of ice sheet drainage basins. Russian Arctic. Dowdeswell, J.A., et al. [1995,eng] 50-3327
- Sea ice in the global climate system: requirements for an ocean observing system. Allison, I., et al. [1995,eng] 50-4248
- Seismic and gravity surveys of Scoresby Sound. Mandler, H., [1995,ger] 50-1547
- Seismic prospecting for oil and gas in regions with cryolithozone development. Bevenko, I.U.P., [1989,rus] 50-2260
- Seismic reflection data from the Fram Strait. Jokat, W., et al. [1995,eng] 50-2541
- Sino-Kazakhstan-Mongolia border area tectonics from satellite data. Yang, D.C., et al. [1993,chi] 50-2385
- Space data from scientific projects. Harries, J.E., [1991,eng] 50-4094
- Space imagery as a basis for modeling the dynamics of thermokarst lake plains. Viktorov, A.S., [1996,eng] 50-6647
- Spaceborne radar photography of subarctic landscapes. Vachon, P.W., et al. [1995,eng] 50-4091
- SSM/I mapped experimental environmental image products. Donahue, D.R., et al. [1992,eng] 50-3567
- Statistical parameters influencing mapping of subglacial topography. Herzfeld, U.C., et al. [1993,eng] 50-1033
- Subsurface seismostratigraphic mapping at Anchorage. Schmoll, H.R., et al. [1986,eng] 50-483
- Temporal analysis of ERS-1 SAR backscatter for hydrology applications. Crevier, Y., et al. [1996,eng] 50-5543
- Thermal rejuvenation of the Yermak Plateau. Okay, N., et al. [1994,eng] 50-4249
- Thickness and structural characteristics of the cryolithozone in northwest Siberia. Agalakov, S.E., [1996,rus] 50-6358
- Universal multifractal scaling of synthetic aperture radar images of sea-ice. Falco, T., et al. [1996,eng] 50-5685
- User capabilities of the Defense Meteorological Satellite Program. Scharfen, G.R., et al. [1994,eng] 50-4792
- Using geophysical methods to study characteristics of the Dzhankuat Glacier moraines. Alekhin, A.S., et al. [1972,rus] 50-526
- Using multiple data sources to enhance photogrammetry for mapping antarctic terrain. Fox, A.J., [1995,eng] 50-5536
- West coast Newfoundland oil spill sensitivity atlas. Dempsey, J., et al. [1995,eng] 50-1468
- Georgia**
- Effects of grazing on alpine vegetation in the Caucasus and the Rockies. Bock, J.H., et al. [1995,eng] 50-73
- Georgia—Svanetiya**
- Characteristics of the meteorological regime of glaciers in Upper Svanetiya during ablation. Voloshina, A.P., et al. [1972,rus] 50-525
- Geotextiles**
- Effects of freeze-thaw cycling on geomembrane sheets and their seams. Comer, A.J., et al. [1995,eng] 50-2864
- Evaluation of geocomposite edge drain on sand subgrade. Raymond, G.P., et al. [1996,eng] 50-5662
- Modeling frost heave of roads with a geotextile layer. Konrad, J.M., et al. [1996,eng] 50-5663
- Performance of landfill cover systems in cold climates. Lee, J.Y., [1994,eng] 50-371
- Preventing frost damage to irrigation canals by geotextile. Chen, L., et al. [1996,eng] 50-6167
- Research program for reducing frost heave with geosynthetic capillary barriers. Henry, K.S., et al. [1996,eng] 50-6129
- Silt fence testing for Eagle River Flats dredging. Henry, K.S., et al. [1995,eng] 50-880
- Thermal insulating geosynthetics as a soil protective cover substitute. Deutsch, W.L., Jr., [1995,eng] 50-2866
- Use of geosynthetic capillary barriers to reduce moisture migration in soils. Henry, K.S., [1995,eng] 50-1096
- Use of geosynthetics in road and airfield construction in cold regions. Kinney, T.C., [1996,eng] 50-6194
- Use of geosynthetics to prevent waterfowl white phosphorus poisoning. Henry, K.S., et al. [1995,eng] 50-2865
- Geothermal prospecting**
- Principal mineral resources and their distribution on the Qinghai-Xizang Plateau. Xu, Z.Y., et al. [1991,chi] 50-2295
- Regularities in the interaction of frozen strata with gas or gas hydrate beds. Romanovskii, N.N., et al. [1996,rus] 50-6391
- Geothermal thawing**
- Impact of subglacial geothermal activity on glacier meltwater quality. Lawler, D.M., et al. [1996,eng] 50-6087
- Jokulhlaup from Katla in 1918. Tomasson, H., [1996,eng] 50-6268
- Subpermafrost groundwater, western Svalbard. Haldorsen, S., et al. [1994,eng] 50-5697
- Water kept liquid by warmth from within. Bentley, C.R., [1996,eng] 50-5602
- Geothermometry**
- Analysis of moisture transfer in the aeration zone of the cryolithosphere. Shepelev, V.V., [1996,rus] 50-6817
- Analysis of the air temperature in the Holocene using various methods. Baranova, N.A., et al. [1996,rus] 50-6350
- Conditions for the formation of taliks in mountain regions and foothills. Zhelezniak, M.N., et al. [1996,rus] 50-6411
- Heat flow in the lithosphere in the western Siberian platform. Deviatkin, V.N., et al. [1996,rus] 50-6392
- Impact of subglacial geothermal activity on glacier meltwater quality. Lawler, D.M., et al. [1996,eng] 50-6087
- Isotopic calibration of Canadian arctic climatic change records. Beltrami, H., et al. [1995,eng] 50-3682
- Permafrost, the active layer, and changing climate. Lachenbruch, A.H., [1994,eng] 50-5930
- Proceedings of the First Conference of Russian Geocryologists, June 3-5, 1996, Moscow, Vol.1. Konferentsiya geokriologov Rossi, 1st. Moscow State University, June 3-5, 1996, [1996,rus] 50-6349
- Geothermy**
- Evaluation of the geothermal heat pump installation at Naval Air Station, Patuxent River. Garg, S., et al. [1995,eng] 50-2460
- Ground-coupled heat pumps for family housing units. Phetteplace, G., [1995,eng] 50-2459
- Ground-coupled heat pumps. Phetteplace, G., [1995,eng] 50-2465
- Heat pipes and heat pumps for cold regions applications. Vasil'ev, L.L., [1996,eng] 50-6490
- Hot springs in the Hoh Xil Mountains. Zheng, X.S., et al. [1992,chi] 50-1507
- Thermal effects of the ocean on permafrost. Lachenbruch, A.H., [1957,eng] 50-3943
- Germany**
- Artificial soil freezing for construction of railroad tunnel. Borckenstein, D., et al. [1992,eng] 50-32
- Deforming bed conditions on the Dänischer Wohld Peninsula, northern Germany. Hart, J.K., et al. [1996,eng] 50-6536
- Distribution of ice age sediments in northern Germany. Ehlers, J., [1990,ger] 50-1788
- Frozen shaft for nuclear waste disposal in Germany. Jordan, P., et al. [1992,eng] 50-29
- Influence of soil properties on ice-wall formation. Zhang, Y., [1992,eng] 50-30
- Mechanism of the development of the Pomeranian Phase marginal zone in the Lake Drawa district. Klys, P., [1990,pol] 50-5004
- New ideas on aircraft icing forecast: first example and experiences. Fuchs, W., et al. [1995,eng] 50-203
- Novel Pleistocene ice flow directions in Poland and Germany. Lagerlund, E., et al. [1995,eng] 50-509
- Periglacial deformations at an archaeological dig near Salzgitter. Preuß, F., [1985,ger] 50-2790
- Periglacial overlying strata in the Bavarian forest. Völkel, J., [1993,eng] 50-1679
- Pleistocene glaciation of the German uplands as reflected in recent research. Rother, K., [1995,ger] 50-744
- Postglacial development of river valleys in the middle part of the northern slope of Pomerania. Florek, W., [1991,pol] 50-4940
- Sedimentology and geomorphology of drumlins in western Allgäu, south Germany. De Jong, M.G.G., et al. [1982,eng] 50-3381
- Snow parameters for vehicle mobility modeling. Horrigan, T., et al. [1995,eng] 50-2708
- Studies on Holocene fluvial geomorphodynamics on the upper Oberwieser. Thomas, J., [1993,ger] 50-2769
- Germany—Alps**
- Asymmetric diurnal temperature change in the alpine region. Weber, R.O., et al. [1994,eng] 50-4790
- Channel erosion during flooding of alpine streams. Becht, M., [1996,ger] 50-5251
- Germany—Danube River**
- Danube River fluvial geomorphodynamics during the Quaternary. Buch, M.W., et al. [1995,eng] 50-2749
- Germany—Harz Mountains**
- Ecological significance of German mountain periglacial deposits. Frühauf, M., [1990,ger] 50-4565
- Germany—Neckar River**
- Quaternary fluvio-morphological processes. Bibus, E., et al. [1995,eng] 50-2747
- Germany—Schauinsland**
- Landscape damage by skiing at the Schauinsland in the Black Forest, Germany. Ries, J.B., [1996,eng] 50-4234
- Germany—Weser River**
- Development of the middle and lower course of the Weser River during the Late Pleistocene. Meinke, K., [1995,eng] 50-2746
- Germany—Wutach River**
- Wutach gorge in SW Germany: late Würmian (periglacial) downcutting versus Holocene processes. Einsele, G., et al. [1995,eng] 50-2750
- Glacial deposits**
- 20th-century glacial-marine sedimentation in Vitus Lake, Bering Glacier, Alaska, U.S.A. Molnia, B.F., et al. [1996,eng] 50-6262
- Ablation of debris-covered ice at Burroughs Glacier. Syverson, K.M., et al. [1995,eng] 50-3739
- Age of pre-late-Wisconsinan glacial-estuarine sedimentation, Bristol Bay, Alaska. Kaufman, D.S., et al. [1996,eng] 50-4586
- Alpine glacial history reconstruction in Wyoming and Argentina. Gosse, J.C., [1994,eng] 50-672
- Alpine glaciers in the Little Ice Age—catalogue and C¹⁴ documentation. Zumbühl, H.J., et al. [1990,ger] 50-3398
- Analysis of stone size and shape in arctic environments. King, C.A.M., et al. [1968,eng] 50-5760
- Basic features of glacial landforms in the Minshan. Tang, B.X., et al. [1994,eng] 50-4783
- Beach sedimentation on paraglacial coasts. Forbes, D.L., et al. [1995,eng] 50-1119
- Beardmore Glacier glacialigenic succession, Transantarctic Mountains. Webb, P.N., et al. [1996,eng] 50-6630
- Block moraine formation of antarctic glaciers. Fitzsimons, S.J., [1996,eng] 50-6242
- Braided outwash fans in the Gulf of Alaska. Boothroyd, J.C., et al. [1975,eng] 50-4814
- Carbonate minerals in glacial sediments: geochemical clues to palaeoenvironment. Fairchild, I.J., et al. [1990,eng] 50-925
- Catastrophic mass movements in the mountains around the Qinghai-Xizang Plateau. Fort, M., et al. [1995,eng] 50-4835
- Cenozoic deposition in the Nansen Basin, Barents Sea. Vågenes, E., [1996,eng] 50-5313
- Cenozoic deposition on the Svalbard continental shelf. Solheim, A., et al. [1996,eng] 50-5312
- Cenozoic erosion and sediment yield in the drainage area of the Storfjorden Fan. Hjelstuen, B.O., et al. [1996,eng] 50-5310
- Central Appalachian periglacial geomorphology: a field excursion guidebook. Clark, G.M., ed. [1992,eng] 50-3712
- Characteristics of bituminoids of dispersed organic matter in permafrost and sub-cryogenic deposits. Tsarev, V.P., et al. [1989,rus] 50-2258
- Characteristics of the post-glacial advance and retreat in Mount Xixia Bangma region. Zheng, B.X., [1982,chi] 50-6606
- Chronostratigraphy of Warta loesses and correlation with glacial deposits in Poland. Maruszczak, H., [1993,pol] 50-3664
- Clastic sediment features in the sea area adjacent to the South Shetland Islands. Feng, Y.J., et al. [1989,chi] 50-6783
- Climate of the penultimate ice age according to data from an antarctic ice core. Kotliakov, V.M., et al. [1993,rus] 50-4103
- Climatic controls on glacier mass balance in Glacier Bay. Hunter, L.E., et al. [1995,eng] 50-3737
- Climatic implications of Norwegian Neoglacial glacier maximum. Mathews, J.A., [1991,eng] 50-3306
- Collected papers on the Quaternary in arid region Xinjiang. Xinjiang University, Xinjiang Geology and Mineral Resources Bureau. Xinjiang Branch Academy of Sciences, [1985,chi] 50-1995
- Common features of the Upper Quaternary and historical glaciation in the Caucasus and Tien Shan. Gerasimov, V.A., [1972,rus] 50-543
- Comparative analytical techniques for glacial diamicton studies. Walden, J., et al. [1996,eng] 50-6537
- Contributions to research on Tibet. Pörge, K.H., ed. et al. [1994,ger] 50-4774
- Contributions to the glacial history of Liefdefjord/NW Spitsbergen. Furrer, G., [1994,ger] 50-1579
- Dating of soil development on Sierra Nevada moraines. Bach, A.J., et al. [1996,eng] 50-4630
- Debris transfer and sedimentary environments: alpine glaciated areas. Johnson, P.G., [1995,eng] 50-4828
- Deforming bed conditions on the Dänischer Wohld Peninsula, northern Germany. Hart, J.K., et al. [1996,eng] 50-6536
- Deglaciation of a Late Devensian British ice sheet. Merritt, J.W., et al. [1995,eng] 50-1858
- Deposition of organic matter in the Norwegian-Greenland Sea during the past 2.7 million years. Wagner, T., et al. [1995,eng] 50-2016
- Depositional sequence of the Quaternary period in Xinjiang. Peng, X.L., [1985,chi] 50-2005
- Depositional sequences in glaciolacustrine deltas. Gustavson, T.C., et al. [1975,eng] 50-4818
- Deposits from the Warta Glaciation against a background of Pleistocene deposits. Lisicki, S., [1993,pol] 50-3663
- Diagnostics of glacial and glacial-marine deposits and relief forms in Spitsbergen. Luchinskaja, T.N., et al. [1972,rus] 50-545
- Diamictite facies in the middle glacial periods. Olszewski, A., [1989,pol] 50-2895
- Diamond exploration in glaciated terrain: a Russian perspective. Golubev, I.U.K., [1995,eng] 50-1092
- Discussion on the Quaternary glaciations in the Karakorum-West Kunlun Mountains. Li, B.Y., et al. [1994,eng] 50-1534
- Distribution of ice age sediments in northern Germany. Ehlers, J., [1990,ger] 50-1788
- Distribution, origin, and hydraulic influence of fractures in a clay-rich glacial deposit. McKay, L.D., et al. [1995,eng] 50-3254
- Division and duration of ice age dating from global comparisons. Brunnacker, K., [1990,ger] 50-1784
- Driving stress, hydraulic head and landform genesis at the southeastern Burroughs Glacier. Gaffield, S.G., et al. [1995,eng] 50-3740
- Early Holocene moraine bank sedimentology of East Greenland. Huddart, D., et al. [1990,eng] 50-929
- Early Pleistocene glaciation in the Qinling Mountains of China. Rost, K.T., [1992,ger] 50-1682
- Early studies on stratified drift. Jopling, A.V., [1975,eng] 50-4807
- Early Weichselian interstadial sediments at Härnösand, Sweden. García Ambrosiani, K., et al. [1992,eng] 50-2559
- Effect of sedimentation on the advance of a fjord-type glacier. Motyka, R.J., et al. [1995,eng] 50-3736
- Erosion of the Laurentide region of North America by glacial and glaciofluvial processes. Bell, M., et al. [1990,eng] 50-1789
- Erosion rates and sediment evacuation by glaciers. Hallet, B., et al. [1996,eng] 50-5317
- Eskers: an essay of bibliographic review. Levasseur, D., [1995,fre] 50-5042
- Estimating long-term rockfall accretion rates by lichenometry. Luckman, B.H., et al. [1995,eng] 50-4836
- Evidence for a fluidized till deposit on the Ross Sea continental shelf. Johns, E., [1994,eng] 50-2695
- Evolution and age of shorelines along Woodford, northern Spitsbergen. Brückner, H., et al. [1994,eng] 50-1582

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Glacial deposits

- Extent of the Warta Glaciation deposits in the northern foreland of the Lublin upland near Dęblin. Zarski, M., [1993, pol] 50-3669
- Fabric and structure in glaciofluvial gravels. Rust, B.R., [1975, eng] 50-4816
- Fabric signature of subglacial till deformation, Breidamerkurjökull, Iceland. Benn, D.I., [1995, eng] 50-3863
- Flux and preservation of organic carbon in Baffin Island fjords. Syvitski, J.P.M., et al., [1990, eng] 50-924
- Formaminera in glaciomarine sediments of arctic fjords. Korsun, S.A., et al., [1995, eng] 50-939
- Formation of De geer moraines deposited subglacially, central Québec. Beaudry, L.M., et al., [1995, eng] 50-5035
- Fossilization potential of arctic fjord and continental shelf benthic macrofaunas. Aitken, A.E., [1990, eng] 50-923
- Fracturing of glacial drift and bedrock over longwall mine panels. Johnston, M.A., et al., [1993, eng] 50-5517
- Geochemical correlation between coarse and fine fractions of till in southern Finland. Tarvainen, T., [1995, eng] 50-2705
- Geochemical criterion for recognition of Pleistocene ice rafting events. Thomson, J., et al., [1995, eng] 50-1250
- Geological and geophysical exploration of alpine and peri-alpine glacial valleys. Pugin, A., et al., [1995, eng] 50-3315
- Geology and mining in Svalbard. Cipitelli, G., [1994, ita] 50-2820
- Geology of a Spitsbergen fault zone. Lamar, D.L., et al., [1995, eng] 50-4296
- Geometry and genesis of the glacial sediments in the southern Barents Sea. Vorren, T.O., et al., [1990, eng] 50-928
- Geomorphological altitude zones in the Qinghai-Xizang Plateau. Hövermann, J., et al., [1994, ger] 50-4775
- Geoscientific Spitsbergen Expedition 1990-1992. Blümel, W.D., ed., [1994, ger] 50-1574
- Glacial and fluvial geomorphology of western Himalaya (Liddar Valley). Kaul, M.N., [1990, eng] 50-5550
- Glacial crushing, weathering and diagenetic histories of quartz grains. Mahaney, W.C., [1995, eng] 50-3595
- Glacial deposit geochemistry at a Manitoba mining site. Nielsen, E., et al., [1991, eng] 50-3911
- Glacial dispersal of mineralized bedrock mercury. Plouffe, A., [1995, eng] 50-882
- Glacial drift and the glacial epoch in the Quaternary period of Xinjiang. Peng, X.L., [1985, chi] 50-2000
- Glacial dynamics, material transfer and sedimentation in Spitsbergen. Solid, J.L., et al., [1994, eng] 50-1585
- Glacial environments. Menzies, J., [1995, eng] 50-3581
- Glacial evidence of climatic cooling during the Younger Dryas. Osborn, G.D., et al., [1995, eng] 50-4625
- Glacial genesis of the high terraces of the Lower Liswarta River. Kobojewski, S., et al., [1993, pol] 50-3660
- Glacial geology and petrography of erratics in Shackleton Range, Antarctica. Höffle, H.C., et al., [1995, eng] 50-1525
- Glacial geology: how ice shapes the land. Erickson, J., [1996, eng] 50-3555
- Glacial geomorphic features in the northern Barents Sea. Solheim, A., et al., [1990, eng] 50-927
- Glacial influence on offshore Norwegian sediment properties. Sæmten, J., et al., [1996, eng] 50-5320
- Glacial overdeepened valleys in the Austrian Alps. Van Husen, D., [1990, ger] 50-1790
- Glacial processes, sediments, landforms, and stratigraphy at Myrdalsjökull. Krüger, J., [1994, eng] 50-166
- Glacial terrestrial deposition. Whiteman, C.A., [1995, eng] 50-3589
- Glacially-fed North Sea Quaternary sedimentation. King, E.L., et al., [1996, eng] 50-4877
- Glacially-influenced sedimentation on the Hebridean slope. Stoker, M.S., [1990, eng] 50-933
- Glacially-influenced Yakataga Formation on Middleton I. Eyles, C.H., et al., [1990, eng] 50-934
- Glacier fluctuations and sediment yields in Glacier Bay. Cai, J.K., et al., [1995, eng] 50-3733
- Glacier process studies at Burroughs Glacier. Mickelson, D.M., et al., [1995, eng] 50-3738
- Glacier sediment transport. Kirkbride, M.P., [1995, eng] 50-3588
- Glacier-fed delta at a Barents Sea fjord. Laberg, J.S., et al., [1996, eng] 50-5921
- Glaciomarine deposits in southwestern Sweden. Stevens, R.L., [1990, eng] 50-930
- Glaciomarine sediments from the Celtic Sea. Scourse, J.D., et al., [1990, eng] 50-932
- Glaciofluvial and glaciolacustrine sedimentation. Jopling, A.V., ed., et al., [1975, eng] 50-4806
- Glaciofluvial sedimentation in the vicinity of Warka during the Warta Glaciation. Grzybowski, K., [1993, pol] 50-3655
- Glaciolacustrine environments. Ashley, G.M., [1995, eng] 50-3593
- Glaciology and glacial geomorphology of fjords in Spitsbergen. King, L., et al., [1994, ger] 50-1586
- Glaciostatic structures and their morphological expression in the Warta Glaciation zone. Klatkova, H., [1993, pol] 50-3659
- Great Qinghai-Xizang ice sheet. Han, T.L., [1991, chi] 50-2176
- Greenland and United Kingdom: paleotemperatures comparisons from Greenland snow accumulation rates. Lowe, J.J., et al., [1995, eng] 50-1082
- Ground-line sedimentation at the Mackay Glacier Tongue. Dawber, M., et al., [1994, eng] 50-1897
- Grounding line and mass balance effects on glacier stability. Hunter, L.E., [1994, eng] 50-694
- Groundwater flow through Ontario glacial deposits. Gerber, R.E., et al., [1996, eng] 50-6750
- Ice age research. Liedtke, H., ed., [1990, ger] 50-1780
- Ice-proximal sediment dynamics in Glacier Bay. Hunter, L.E., et al., [1995, eng] 50-3735
- Iceland glacier drainage and sandar formation. Heim, D., [1992, ger] 50-364
- Identification of fossil plant fragments in glaciers. Lindsog, A., et al., [1995, swe] 50-1470
- Implication of glacial dispersal patterns for mineral exploration. McClenaghan, M.B., et al., [1996, eng] 50-6515
- Implications of glacial deposit physical properties for radiocarbon dating. Karrow, P.F., [1992, eng] 50-2563
- Influence of glacial deposits on river basin sedimentation. Campo, S.H., et al., [1994, eng] 50-2997
- Inquiry on ice ages in Mount Xixia Bangma region. Shi, Y.F., et al., [1982, chi] 50-6605
- Interpretation of faults in glaciofluvial sediments. McDonald, B.C., et al., [1975, eng] 50-4810
- Interpretation of subglacially-deformed materials. Benn, D.I., et al., [1996, eng] 50-5583
- Inverse relation between ice extent and the late Paleozoic glacial record of Gondwana. González-Bonorino, G., et al., [1995, eng] 50-1807
- Is there any real evidence for a huge shelf ice sheet in East Siberia? Sher, A., [1995, eng] 50-499
- Isotope tracing of Pleistocene ice-rafted debris. Gwiazda, R.H., et al., [1996, eng] 50-4399
- Laboratory technique for measurement of spectral induced polarization response of soil samples. Vanhala, H., et al., [1995, eng] 50-2998
- Landform and sediment associations of dry-based glaciers in arid polar environments. Humphreys, K.A., et al., [1996, eng] 50-6577
- Landforms associated with Pleistocene glaciation in Ireland. Wilson, P., et al., [1995, eng] 50-5486
- Last deglaciation of the Franz Victoria Trough, northern Barents Sea. Lubinski, D.J., et al., [1996, eng] 50-6535
- Last glaciation in central Magellan Strait, southernmost Chile. Clapperton, C.M., et al., [1995, eng] 50-964
- Late Cenozoic evolution of the western Barents Sea-Svalbard continental margin. Faleide, J.I., et al., [1996, eng] 50-5308
- Late Cenozoic sedimentation and uplift history on the mid-Norwegian continental shelf. Henriksen, S., et al., [1996, eng] 50-5315
- Late glacial raised beaches and glacier recession in northeast Iceland. Nordahl, H., et al., [1993, eng] 50-4772
- Late glacial sedimentation and history of the Lake Nipigon Basin, Ontario. Lemoine, R.M., et al., [1995, eng] 50-4880
- Late Holocene glacier fluctuations in western Norway. Nesje, A., et al., [1991, eng] 50-3302
- Late Pleistocene deposits at Block Fen, Cambridgeshire, England. West, R.G., et al., [1995, eng] 50-6214
- Late Quaternary glacial and climatic history of the Liddar Valley, Kashmir Himalaya. Kaul, M.N., [1994, eng] 50-5549
- Late Quaternary glacial and environmental history of Kongsfjorden, Svalbard. Ingólfsson, Ó., et al., [1995, eng] 50-4713
- Late Quaternary glaciation history and landscape development in Spitsbergen. Blümel, W.D., et al., [1994, ger] 50-1578
- Late Quaternary stratigraphy and glaciology in the Thule area, Northwest Greenland. Funder, S., ed., [1990, eng] 50-5169
- Late Quaternary subaqueous outwash deposits near Ottawa, Canada. Rust, B.R., et al., [1975, eng] 50-4813
- Late Weichselian to early Holocene sedimentation in eastern Svalbard. Möller, P., et al., [1995, eng] 50-4716
- Late Wisconsinan ice retreat from the Scotian Shelf. King, L.H., [1996, eng] 50-6533
- Late Wisconsinan outwash in southeastern British Columbia. Clague, J.J., [1975, eng] 50-4815
- Late-glacial advances in the western Italian Alps. Porter, S.C., et al., [1982, eng] 50-3383
- Late-glacial palynology of the Myrtaceae of southern Chile. Zhou, M.M., et al., [1996, eng] 50-4744
- Late-Holocene glaciation and twentieth-century retreat, northeastern Brooks Range, Alaska. Evison, L.H., et al., [1996, eng] 50-4371
- Lateglacial and Holocene variations of the Grey Glacier, an outlier of the South Patagonian icefield. Marden, C.J., [1993, eng] 50-3013
- Little Ice Age temperature estimated by arctic heather growth variations. Havström, M., et al., [1995, eng] 50-1121
- Lobal interactions and rheologic superposition in subglacial till near Bradville, Ontario, Canada. Hicock, S.R., [1992, eng] 50-2550
- Low probability of east Antarctica Pliocene deglaciation. Warnke, D.A., et al., [1996, eng] 50-6628
- Luminescence dating of the deglaciation in northern Sweden. Lundqvist, J., et al., [1995, eng] 50-515
- Magnetic analysis of glacial sediment weathering. Walden, J., et al., [1995, eng] 50-6562
- Mapping the architecture of glaciofluvial sediments with three-dimensional georadar. Beres, M., et al., [1995, eng] 50-2529
- Marine and glacial Quaternary deposits of the southern Søkkapp Land, Spitsbergen. Wójcik, A., et al., [1993, eng] 50-2215
- Marine clay deposits in ice water around the South Shetlands. Zhou, F.G., et al., [1989, chi] 50-6781
- Marine fossils and glacial history of raised beach deposits around Lützow-Holm Bay. Igarashi, A., et al., [1995, eng] 50-3695
- Marine glacial deposition around the South Shetland Islands. Huang, H.Y., et al., [1989, chi] 50-6784
- Mass exchange between meltwater streams and proglacial deposits. Holmlund, P., et al., [1996, eng] 50-6241
- Micromorphology of basal till, Burroughs Glacier, Alaska. Ham, N.R., et al., [1995, eng] 50-3741
- Modelling mountain slopes from the Late Vistulian in Spitsbergen. Drecki, J., [1989, pol] 50-2881
- Modern glacial environments: processes, dynamics and sediments. Menzies, J., ed., [1995, eng] 50-3580
- Modern glaciomarine environments. Powell, R.D., et al., [1995, eng] 50-3594
- Morainal bank facies in Ireland. McCabe, A.M., et al., [1995, eng] 50-921
- Morainal bank ground-line process during coastal Maine deglaciation. Hunter, L.E., et al., [1996, eng] 50-6532
- Moraine observations at the foot of Independence Hills. Ishimaru, S., et al., [1995, eng] 50-4382
- Moraine types from the last glaciation in the Qinghai-Xizang Plateau. Liu, S.J., et al., [1994, eng] 50-4782
- Moraines and buried ice in Terra Nova Bay area. Meneghel, M., et al., [1994, ita] 50-2825
- Morphological-paleogeographical features of the Warta Glaciation relief in the Rawka River lobe. Klajnert, Z., [1993, pol] 50-3657
- Nature of esker sedimentation. Banerjee, I., et al., [1975, eng] 50-4811
- Neoglaciation and vegetation change in British Columbia. Clague, J.J., et al., [1996, eng] 50-4332
- New indicator of glacial dispersal: lead isotopes. Bell, K., et al., [1995, eng] 50-1857
- New type of glacial deposit. Appel, P.W.U., [1996, eng] 50-3353
- Nomenclature applied to deposits formed in glacial and ice-contact environments. Hill, H.K., et al., [1996, eng] 50-5711
- Novel Pleistocene ice flow directions in Poland and Germany. Lagerlund, E., et al., [1995, eng] 50-509
- Old moraines in Lågneshfya (Western Spitsbergen). Musiał, A., [1989, pol] 50-2891
- On ancient ice-sheet and ice age in the Tibetan Plateau. Xu, D.M., et al., [1995, chi] 50-5632
- On the Quaternary paleoglacial action of the northern Tianshan. Zhang, H.Y., [1985, chi] 50-2001
- On the sedimentary environment of the glaciofluvial terraces of the Tian Shan Mountains near Urumqi. Han, S.T., [1985, chi] 50-2002
- Organic deposits at the bottom and top of sediments suggested to be Wartian. Godzik, J., et al., [1993, pol] 50-3654
- Palaeoclimate of the North Atlantic seaboard during the last glacial/interglacial transition. Lowe, J.J., et al., [1995, eng] 50-501
- Paleogeography of the Hórby valley during the Plenivistulian and Holocene. Karczewski, A., [1989, pol] 50-2885
- Paleomagnetic age constraints on New Zealand glacial deposits. Fitzsimons, S.J., et al., [1996, eng] 50-6576
- Paleomagnetism of a glacial sequence, South Australia. Schmidt, P.W., et al., [1995, eng] 50-4111
- Palynology of the Quaternary glaciolacustrine deposits of Mount Xixia Bangma. Chen, S.M., et al., [1992, chi] 50-6604
- Paraglacial coasts. Forbes, D.L., et al., [1994, eng] 50-493
- Particle interaction in fjord suspended sediment. Syvitski, J.P.M., et al., [1981, eng] 50-3764
- Past glaciation and sea levels on Bjørnøya, Svalbard. Salvigsen, O., et al., [1995, eng] 50-4720
- Peat bog paleoclimatology and ecology adjoining an Italian glacier. Burga, C.A., [1995, fre] 50-862
- Percentage of local rocks in fluvioglacial deposits in central Poland. Krzemiński, T., et al., [1993, pol] 50-3662
- Permafrost in glaciofluvial sediments of the last glaciation. Habbe, K.A., [1993, eng] 50-1678
- Petroleum in glacially-related sandstones of Gondwana: a review. Potter, P.E., et al., [1995, eng] 50-3252
- Photogrammetry and geomorphology of high arctic push moraines. King, L., et al., [1993, eng] 50-1673
- Physical properties governing groundwater flow in a glacial till catchment. Hinton, M.J., et al., [1993, eng] 50-3693
- Pleistocene glacial history of the Svalbard area. Hebbeln, D., [1992, eng] 50-2558
- Pleistocene glaciation in northwestern British Columbia. Spooner, I.S., et al., [1995, eng] 50-4526
- Pleistocene glaciation of the Outer Hebrides, Scotland. Ballantyne, C.K., et al., [1995, eng] 50-6212
- Pleistocene glaciations in the Qinghai-Xizang Plateau. Hövermann, J., et al., [1993, eng] 50-1677
- Pleistocene glacier thicknesses inferred from electron microscopy of till microtextures. Mahaney, W.C., [1995, eng] 50-3365
- Pleistocene glaciomarine isostatic rebound, Puget Lowland, Washington. Dethier, D.P., et al., [1995, eng] 50-1832
- Pleistocene stratigraphy in the Lappeajärvi meteorite crater in Ostrobothnia, Finland. Salonen, V.P., et al., [1992, eng] 50-2556
- Pleistocene stratigraphy of the Athabasca River valley region, Rocky Mountains, Alberta. Levson, V.M., et al., [1995, eng] 50-5037
- Pleistocene-Holocene fluxes are not the Earth's norm. Hay, W.W., [1994, eng] 50-1237
- Pleistocene-Holocene transition in Sweden. Lord, A.R., [1990, eng] 50-931
- Pliocene sand ridges at the Barents Sea margin. Knutsen, S.M., et al., [1996, eng] 50-5314
- Post-glacial mass flow and associated deposits in paleovalleys of Greenland. Collinson, J.D., et al., [1989, eng] 50-5168

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- Postglacial sedimentation in the Liefdefjord area, NW Spitsbergen. Baumhauer, R., et al. [1994,ger] 50-1581
- Practical considerations for GRM refraction surveys in glacial terrains. Kassenar, D., et al. [1993,eng] 50-5516
- Pre-Illinoian glacial stratigraphy in north-central Missouri. Rovey, C.W., III, et al. [1996,eng] 50-4585
- Precambrian glaciomarine sedimentation in East Greenland. Moncrieff, A.C.M., et al. [1990,eng] 50-935
- Present and early Holocene foraminiferal distribution in eastern Svalbard. Hansen, A., et al. [1995,eng] 50-4718
- Primary division of Quaternary in Xinjiang. Yang, Z.X., et al. [1985,chi] 50-2004
- Problems in paleogeography and stratigraphy of the cold Warta stage in Poland. Klatkova, H., ed. [1993,pol] 50-3651
- Proceedings. China Symposium on Southern Ocean Expedition, 1st, Hangzhou, May, 1988, [1989,chi] 50-6763
- Proceedings. Glacier Bay Science Symposium, 3rd, Glacier Bay National Park and Preserve, Gustavus, AK, Sep. 15-18, 1993, [1995,eng] 50-3730
- Proceedings [1994,eng] 50-1531
- Processes of glaciectonism. Van der Wateren, F.M., [1995,eng] 50-3590
- Products of subglacial volcanic eruptions under different ice thicknesses. Smellie, J.L., et al. [1994,eng] 50-2993
- Profile of the sub-moraine organogenic sediments in the fore-field of the Renard Glacier. Dzierżek, J., et al. [1989,pol] 50-2890
- Proglacial fluvial and lacustrine environments. Church, M., et al. [1975,eng] 50-4808
- Quartz grain in the glacier and periglacial environment of Oscar II Land. Kowalkowski, A., et al. [1989,pol] 50-2900
- Quaternary geology and geomorphology of Mount Xixia Bangma region. Liu, D.S., et al. [1982,chi] 50-6602
- Quaternary geology and the last two glaciations in Alberta. Jackson, L.E., Jr., [1994,eng] 50-86
- Quaternary geology of the Buchans area, Newfoundland: implications for mineral exploration. Klassen, R.A., et al. [1996,eng] 50-6634
- Quaternary glacial in the Andes. Heine, K., [1995,eng] 50-4837
- Quaternary glaciations in the eastern and central Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4776
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Quaternary periglacial conditions of a Himalayan river valley fill. Mah, B.S., et al. [1994,eng] 50-5548
- Quaternary record of eastern Svalbard—an overview. Landvik, J.Y., et al. [1995,eng] 50-4711
- Quaternary stratigraphy of the buried valleys of the lower Red Deer River, Alberta, Canada. Evans, D.J.A., et al. [1995,eng] 50-1080
- Quaternary terraces and related deposits in the western Wind River Basin, Wyoming. Jaworowski, C., [1993,eng] 50-702
- Radiocarbon date list VIII: Canada, Greenland, Iceland, and Antarctica. Manley, W.F., ed. et al. [1996,eng] 50-5927
- Radiocarbon dating of glacial moraines in California. Dorn, R.I., [1996,eng] 50-6098
- Recent drumlins, flutes and lineations at Vestari-Hagafellsjökull, Iceland. Hart, J.K., [1995,eng] 50-1880
- Record of Warta processes in the base of the mountain Ner River valley. Turkowska, K., [1993,pol] 50-3667
- Report on the Mount Xixia Bangma region scientific expedition, 1964. [1982,chi] 50-6593
- Results of TL datings of Warta Glaciation deposits in the northern Silesian Lowlands. Olszak, J.J., et al. [1993,pol] 50-3665
- Review of multi-proxy data for the Younger Dryas in Atlantic Canada. Mayle, F.E., et al. [1995,eng] 50-4624
- Revision of the lateglacial Swedish varve chronology. Strömberg, B., [1990,eng] 50-1791
- Rhythmic sedimentation in Glacial Lake Hitchcock, Massachusetts-Connecticut. Ashley, G.M., [1975,eng] 50-4820
- Role of geomorphological analysis in coastal environmental protection measures. Finarov, D.P., et al. [1992,rus] 50-386
- Runoff of suspended sediments in the Dzhankuat Glacier basin in summer 1970. Diurgenov, M.B., et al. [1972,rus] 50-554
- Salinity of Quaternary deposits in the western Yamal Peninsula. Lakhina, O.V., et al. [1983,rus] 50-314
- Sandbanks in river beds in the foreground of Hörbye Glacier, Spitsbergen. Rachlewicz, G., [1989,pol] 50-2894
- Scottish landform examples. 8: Solifluction sheets in the Bowmont Valley. Cheviot Hills. Harrison, S., [1993,eng] 50-3015
- Scottish landform examples. 9: Moraines in Coire na Creiche, Isle of Skye. Benn, D.I., [1993,eng] 50-3016
- Sea floor morphology and glacial history of the Barents Sea. Solheim, A., et al. [1988,eng] 50-887
- Sea levels in Petuniabukta—central Spitsbergen. Stankowski, W., [1989,pol] 50-2887
- Sediment flux from a fjord during glacial periods, Isfjorden, Spitsbergen. Hooke, R. L., et al. [1996,eng] 50-5318
- Sediment transport in glacial meltwater streams. Østrem, G., [1975,eng] 50-4809
- Sediment types and sedimentation of the northwestern sea area of the Antarctic Peninsula. Lin, C.Q., et al. [1989,chi] 50-6785
- Sediment yields, lithofacies and mudrock in glaciomarine environments. Cai, J.K., [1994,eng] 50-695
- Sedimentary and hydrologic processes within modern terrestrial valley glaciers. Lawson, D.E., [1995,eng] 50-3591
- Sedimentary successions in Pleistocene ice-marginal lakes. Shaw, J., [1975,eng] 50-4819
- Sedimentation and physical limnology in proglacial Malaspina Lake, southeastern Alaska. Gustavson, T.C., [1975,eng] 50-4817
- Sedimentology and geomorphology of drumlins in western Allgäu, south Germany. De Jong, M.G.G., et al. [1982,eng] 50-3381
- Sedimentology of the Brampton esker in Ontario. Saunderson, H.C., [1975,eng] 50-4812
- Sediments and landforms of modern proglacial terrestrial environments. Maizels, J., [1995,eng] 50-3592
- Sediments in the Liefdefjord and Woodfjord of Spitsbergen. Kroemer, E.A., et al. [1994,eng] 50-1580
- Sequence analysis of Canadian glaciolacustrine deposits. Martini, I.P., et al. [1995,eng] 50-1084
- Sequence of glacial ice flows in Abitibi-Timiskaming. Veilleux, J.J., et al. [1996,eng] 50-2499
- Significance of the analysis of dominant boulders and the orientation of long axes of pebbles in moraines. Raukas, A.V., [1972,rus] 50-544
- Skógar Tephra, a Younger Dryas marker in North Iceland. Norddahl, H., et al. [1992,eng] 50-2548
- Slope valleys in glaciomarine sediments of the Gulf of Alaska. Carlson, P.R., et al. [1990,eng] 50-922
- Soil polygenesis as a function of Quaternary climate change, northern Great Basin, USA. Chadwick, O.A., et al. [1995,eng] 50-1831
- Soil/weathering rate relations from glacial sediment chemical evolution. Taylor, A., et al. [1995,eng] 50-1806
- Some contributions to the study of landforms and geomorphic processes. Barsch, D., ed. et al. [1993,eng] 50-1671
- Some features of the Warta glacial deposits in central Poland. Klatkova, H., [1993,pol] 50-3658
- Steepland geomorphology. Slaymaker, O., ed. [1995,eng] 50-4827
- Stratigraphic setting and paleogeography of the Warta Glaciation in northeastern Poland. Krupinski, K.M., et al. [1993,pol] 50-3661
- Stratigraphical position of kame deposits to the north of Bielsk Podlaski. Mycielska-Dowgiatko, E., et al. [1995,eng] 50-2617
- Stratigraphy of redeposited fossils in Norwegian Pleistocene sediments. Vorren, T.O., et al. [1981,eng] 50-3625
- Stratigraphy of slope deposits and soils in the northeastern Great Basin and vicinity. Kleber, A., [1993,eng] 50-1681
- Stratigraphy of Yorkshire, England glacial deposits. Evans, D.J.A., et al. [1995,eng] 50-6213
- Study on Quaternary moraine debris of Mount Xixia Bangma region. Zhang, S.Y., [1982,chi] 50-6603
- Study on the sequences of the Quaternary glaciations in the Bayan Har Mountains. Zhou, S.Z., [1995,chi] 50-5633
- Subglacial sediment deformation and rapid changes in the Laurentide Ice Sheet. Jenson, J.W., et al. [1996,eng] 50-5915
- Subsurface seismostratigraphic mapping at Anchorage. Schmoll, H.R., et al. [1986,eng] 50-483
- Suction measurements on compacted till specimens. Fredlund, D.G., et al. [1995,eng] 50-1154
- Suspended sediments and organic carbon in Glacier Bay fjords. Cowan, E.A., [1995,eng] 50-3734
- Till genesis through shear diffusion. Charbonneau, R., et al. [1995,eng] 50-3364
- Two-step deglaciation of the southeastern Barents Sea. Poliak, L., et al. [1995,eng] 50-561
- Using geophysical methods to study characteristics of the Dzhankuat Glacier moraines. Alestun, A.S., et al. [1972,rus] 50-526
- Variations of Upsala Glacier in southern Patagonia since the late Holocene to the present. Malgouyres, E., et al. [1992,eng] 50-379
- Warta Glaciation (stage) within the Widawka drainage basin and the Bełchatów mine. Baraniecka, M.D., [1993,pol] 50-3652
- Warta Glaciation deposits within the non-glaciated zone in the Polesie Lubelskie. Wojtanowicz, J., [1993,pol] 50-3668
- Water fern residue as Chilean paleoclimatic indicator. Heusser, C.J., et al. [1996,eng] 50-5488
- Younger Dryas end moraines in Finland and NW Russia. Rainio, H., et al. [1995,eng] 50-514
- See [also]: Moraines
- Glacial erosion**
- Abraded rock landforms (whalebacks) developed under ice streams in mountain areas. Evans, I.S., [1996,eng] 50-6234
- Basic features of glacial landforms in the Minshan. Tang, B.X., et al. [1994,eng] 50-4783
- Bedrock surface weathering on Finnish fjell summits. McCarron, D., et al. [1996,eng] 50-5825
- Bedrock topographic effects on subglacial erosion. Rea, B.R., et al. [1996,eng] 50-6249
- Braided outwash fans in the Gulf of Alaska. Boothroyd, J.C., et al. [1975,eng] 50-4814
- Catastrophic mass movements in the mountains around the Qinghai-Xizang Plateau. Fort, M., et al. [1995,eng] 50-4835
- Cavities and the effective pressure between abrading clasts and bedrock. Hindmarsh, R.C.A., [1996,eng] 50-6237
- Cenozoic deposition in the Nansen Basin, Barents Sea. Våge, E., [1996,eng] 50-5313
- Cenozoic deposition on the Svalbard continental shelf. Solheim, A., et al. [1996,eng] 50-5312
- Cenozoic erosion and sediment yield in the drainage area of the Storfjorden Fan. Hjelstuen, B.O., et al. [1996,eng] 50-5310
- Cenozoic shelf erosion of the Barents Sea margin. Fiedler, A., et al. [1996,eng] 50-5309
- Contribution to the geomorphological problem of strandflats. Tietze, W., [1962,ger] 50-5743
- Contributions to research on Tibet. Pörtge, K.H., ed. et al. [1994,ger] 50-4774
- Debris transfer and sedimentary environments: alpine glaciated areas. Johnson, P.G., [1995,eng] 50-4828
- Dynamics of the last glaciation in eastern Svalbard. Salvigsen, O., et al. [1995,eng] 50-4714
- Early stages of till genesis: an example from Fanore, County Clare, Ireland. Croot, D.G., et al. [1996,eng] 50-5828
- Early studies on stratified drift. Jopling, A.V., [1975,eng] 50-4807
- Erosion by water flowing under ice. Tietze, W., [1961,ger] 50-5747
- Erosion of the Laurentide region of North America by glacial and glaciofluvial processes. Bell, M., et al. [1990,eng] 50-1789
- Erosion on Titan: past and present. Lorenz, R.D., et al. [1996,eng] 50-5832
- Erosion rates and sediment evacuation by glaciers. Hallet, B., et al. [1996,eng] 50-5317
- Erosion rates and sediment yields of glaciers. Bogen, J., [1996,eng] 50-6239
- Fabric and structure in glaciofluvial gravels. Rust, B.R., [1975,eng] 50-4816
- General geomorphological aspects of the Cumberland Peninsula on Baffin I. Cortemiglia, G.C., et al. [1994,ita] 50-2822
- Geology of a Spitsbergen fault zone. Lamar, D.L., et al. [1995,eng] 50-4296
- Geomorphological altitude zones in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4775
- Geomorphological and neotectonic features of Hurd Peninsula, Livingston Island, South Shetland Islands. Pallás, R., et al. [1995,eng] 50-1337
- Glacial and fluvial geomorphology of western Himalaya (Liddar Valley). Kaul, M.N., [1990,eng] 50-5550
- Glacial cirque formation in northern Scandinavia. Richardson, C., et al. [1996,eng] 50-6246
- Glacial crushing, weathering and diagenetic histories of quartz grains. Mahaney, W.C., [1995,eng] 50-3595
- Glacial dynamics, material transfer and sedimentation in Spitsbergen. Sollied, J.L., et al. [1994,eng] 50-1585
- Glacial erosion as a consequence of subglacial sediment deformation. Boulton, G.S., [1996,eng] 50-4891
- Glacial flow systems in the zone of confluence between the Scandinavian and Novaya Zemlya ice sheets. Punkari, M., [1995,eng] 50-2130
- Glacial geology and petrography of erratics in Shackleton Range, Antarctica. Höfe, H.C., et al. [1995,eng] 50-1525
- Glacial overdeepened valleys in the Austrian Alps. Van Husen, D., [1990,ger] 50-1790
- Glacial quarrying: a simple theoretical model. Hallet, B., [1996,eng] 50-6233
- Glacier sediment transport. Kirkbride, M.P., [1995,eng] 50-3588
- Glaciofluvial sedimentation in the vicinity of Warta during the Warta Glaciation. Grzybowski, K., [1993,pol] 50-3655
- Glaciology and glacial geomorphology of fjords in Spitsbergen. King, L., et al. [1994,ger] 50-1586
- Global chemical weathering on glacial time scales. Kump, L.R., et al. [1994,eng] 50-1239
- Great Qinghai-Xizang ice sheet. Han, T.L., [1991,chi] 50-2176
- Grounding line and mass balance effects on glacier stability. Hunter, L.E., [1994,eng] 50-694
- Holocene evolution of a stretch of an eastern Italian alpine valley. Friz, C., et al. [1995,eng] 50-6697
- Ice-flow indications of complex Alaskan deglaciation events. Syverson, K.M., [1995,eng] 50-1801
- Implications of bedrock cosmic ray exposure age for Fennoscandian ice sheet height. Brook, E.J., et al. [1996,eng] 50-3813
- Interaction between subglacial sediment and meltwater. Collins, D.N., [1996,eng] 50-6265
- Is erosion by deforming subglacial sediments significant? (Toward till continuity). Cuffey, K., et al. [1996,eng] 50-6235
- Karakorum ice cover variations during the last glaciation. Kuhle, M., [1994,eng] 50-1533
- Kulshan caldera: a Quaternary subglacial caldera in the North Cascades, Washington. Hildreth, W., [1996,eng] 50-6547
- Laboratory exercise introducing glacial geomorphology. Harbor, J.M., et al. [1995,eng] 50-3861
- Laboratory study of sediment deformation: stress heterogeneity and grain-size evolution. Iverson, N.R., et al. [1996,eng] 50-6256
- Late Cenozoic evolution of the western Barents Sea-Svalbard continental margin. Faleide, J.I., et al. [1996,eng] 50-5308
- Late Cenozoic history of the Scandinavian and Barents Sea ice sheets. Mangerud, J., et al. [1996,eng] 50-5305
- Late glacial raised beaches and glacier recession in northeast Iceland. Norddahl, H., et al. [1993,eng] 50-4772
- Late Quaternary glacial and climatic history of the Liddar Valley, Kashmir Himalaya. Kaul, M.N., [1994,eng] 50-5549
- Late Quaternary glacial and environmental history of Kongsøya, Svalbard. Ingólfsson, O., et al. [1995,eng] 50-4713
- Late Wisconsinan outwash in southeastern British Columbia. Clague, J.J., [1975,eng] 50-4815
- Mass movements in glaciomarine sediments on the Barents Sea continental slope. Kuvaas, B., [1996,eng] 50-5321

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- Micromorphology of basal till, Burroughs Glacier, Alaska. Ham, N.R., et al. [1995.eng] 50-3741
- Middle and Late Pleistocene evolution of the Bear Island Trough Mouth Fan. Laberg, J.S., et al. [1996.eng] 50-5322
- Modern glacial environments: processes, dynamics and sediments. Menzies, J., ed. [1995.eng] 50-3580
- Moraine types from the last glaciation in the Qinghai-Xizang Plateau. Liu, S.J., et al. [1994.eng] 50-4782
- Moraines and ice scoured topographies in southern Patagonia. Yamada, S., [1992.eng] 50-380
- Nunataks of the last ice sheet in northwest Scotland. McCarroll, D., et al. [1995.eng] 50-3366
- Ocean bottom trenching by an Icelandic glacier. Björnsson, H., [1996.eng] 50-6252
- On ancient ice-sheet and ice age in the Tibetan Plateau. Xu, D.M., et al. [1995.chi] 50-5632
- Origin of till sequences beneath mid-latitude ice sheets. Boulton, G.S., [1996.eng] 50-6243
- Paleoenvironmental implications of modern periglacial eolian deposits. Dijkman, J.W.A., et al. [1991.eng] 50-5172
- Paleogeographic significance of Norwegian block field periglacial processes. Sellier, D., [1995.fre] 50-4878
- Paraglacial coasts. Forbes, D.L., et al. [1994.eng] 50-493
- Past glaciation and sea levels on Bjørnøya, Svalbard. Salvigsen, O., et al. [1995.eng] 50-4720
- Permafrost in glaciofluvial sediments of the last glaciation. Habbe, K.A., [1993.eng] 50-1678
- Pleistocene glaciations in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1993.eng] 50-1677
- Pleistocene paraglacial landsliding in South Wales. Shakesby, R.A., et al. [1996.eng] 50-5859
- Pliocene sand ridges at the Barents Sea margin. Knutsen, S.M., et al. [1996.eng] 50-5314
- Post-glacial mass flow and associated deposits in paleovalleys of Greenland. Collinson, J.D., et al. [1989.eng] 50-5168
- Postglacial microbiological weathering of granite roches moutonnées. André, M.F., [1995.eng] 50-4832
- Proceedings. International Symposium on Glacial Erosion and Sedimentation, Reykjavik, Iceland, Aug. 20-25, 1995, [1996.eng] 50-6232
- Processes of glacial erosion. Iverson, N.R., [1995.eng] 50-3587
- Quantification of Barents Sea Pleistocene bottom erosion. Rasmussen, E., et al. [1996.eng] 50-5311
- Quaternary geology and geomorphology of Mount Xixia-Bangma region. Liu, D.S., et al. [1982.chi] 50-6602
- Quaternary glacial transport in the Hudson Bay region. Parent, M., et al. [1995.eng] 50-4527
- Quaternary glaciations in the eastern and central Qinghai-Xizang Plateau. Hövermann, J., et al. [1994.eng] 50-4776
- Quaternary periglacial conditions of a Himalayan river valley fill. Marh, B.S., et al. [1994.eng] 50-5548
- Quaternary record of eastern Svalbard—an overview. Landvik, J.Y., et al. [1995.eng] 50-4711
- Quaternary sedimentary processes and budgets in Orphan Basin, southwestern Labrador Sea. Hiscott, R.N., et al. [1996.eng] 50-4579
- Recent drumlins, flutes and lineations at Vestari-Hagafellsjökull, Iceland. Hart, J.K., [1995.eng] 50-1880
- Recent fluvial sediment budgets in glacial and periglacial environments, NW Spitsbergen. Barsch, D., et al. [1994.eng] 50-1584
- Reconstruction of the late Palaeozoic ice sheet on southwestern Gondwana. Visser, J.N.J., [1993.eng] 50-6318
- Regional-scale meltwater erosion and deposition patterns, northern Quebec, Canada. Brennan, T.A., et al. [1996.eng] 50-6244
- Relevance of ice thickness measurements to Alaskan glacier variations. Nolan, M., et al. [1995.eng] 50-1875
- Scandinavian Pleistocene tectonic correlations. Riis, F., [1996.eng] 50-5323
- Seasonal variations in arctic glacier sediment transport. Hodgkins, R., [1996.eng] 50-6253
- Sediment flux along glaciated continental margins. Andrews, J.T., et al. [1994.eng] 50-1241
- Sediment flux from a fjord during glacial periods, Isfjorden, Spitsbergen. Hooke, R.L., et al. [1996.eng] 50-5318
- Sediment yields, lithofacies and mudrock in glaciomarine environments. Cai, J.K., [1994.eng] 50-695
- Sedimentary and hydrologic processes within modern terrestrial valley glaciers. Lawson, D.E., [1995.eng] 50-3591
- Sedimentology and geomorphology of drumlins in western Allgäu, south Germany. De Jong, M.G.G., et al. [1982.eng] 50-3381
- Sediments and landforms of modern proglacial terrestrial environments. Maizels, J., [1995.eng] 50-3592
- Seismic investigation of glacial tunnel channels. Pugin, A., et al. [1996.eng] 50-6257
- Sequence of glacial ice flows in Abitibi-Timiskaming. Veillette, J.J., et al. [1996.eng] 50-2499
- Sliding of glacial till over bedrock. Hindmarsh, R.C.A., [1996.eng] 50-6238
- Steepland geomorphology. Slaymaker, O., ed. [1995.eng] 50-4827
- Stratigraphy of redeposited fossils in Norwegian Pleistocene sediments. Vorren, T.O., et al. [1987.eng] 50-3625
- Sria distribution and subglacial processes in the Tianshan Mountains. Cui, Z.J., et al. [1995.eng] 50-4520
- Study on the sequences of the Quaternary glaciations in the Bayan Har Mountains. Zhou, S.Z., [1995.chi] 50-5633
- Subglacial chemical erosion in a Swiss mountain glacier. Brown, G.H., et al. [1996.eng] 50-6236
- Submerged terraces in the Barents Sea. Lebesbye, E., et al. [1996.eng] 50-4876
- Thrusting and debris entrainment in a surging glacier: Bakaninbreen, Svalbard. Hambrey, M.J., et al. [1996.eng] 50-6267
- Till genesis through shear diffusion. Charbonneau, R., et al. [1995.eng] 50-3364
- West Antarctic ice sheet removal of subglacial volcanic artefacts. Behrendt, J.C., et al. [1995.eng] 50-2530
- Glacial geology**
- "Ice Mountain"—a Pleistocene relict in the north of West Siberia. Rajamäe, R., et al. [1989.eng] 50-2897
- 100 years of glacial theory and Quaternary topography of today. Gellert, J.F., [1990.ger] 50-1781
- 12,000 year radiocarbon date of deglaciation from the continental divide of northwestern Montana. Carrara, P.E., [1995.eng] 50-3299
- 20th-century glacial-marine sedimentation in Vitus Lake, Bering Glacier, Alaska, U.S.A. Molnia, B.F., et al. [1996.eng] 50-6262
- Abraded rock landforms (whalebacks) developed under ice streams in mountain areas. Evans, I.S., [1996.eng] 50-6234
- Alaskan glacier basal ice deformation. Hart, J.K., [1995.eng] 50-1882
- Alpine glacial history reconstruction in Wyoming and Argentina. Gosse, J.C., [1994.eng] 50-672
- Alpine glaciers in the Little Ice Age. Zumbühl, H.J., et al. [1988.ger] 50-3397
- Analysis of stone size and shape in arctic environments. King, C.A.M., et al. [1968.eng] 50-5760
- Applications of freshwater diatoms to geographical research. Moser, K.A., et al. [1996.eng] 50-5013
- Assessment of rock glacier sliding velocity. Whalley, W.B., et al. [1995.eng] 50-2809
- Barents Sea ice sheet retreat. Forman, S.L., et al. [1996.eng] 50-5585
- Basal debris entrainment of Canadian arctic glaciers. Zdanowicz, C.M., et al. [1996.eng] 50-6247
- Basal friction of ice stream E, West Antarctica. MacAyeal, D.R., et al. [1995.eng] 50-448
- Basal ice facies and their formation in the western Alps. Hubbard, B., et al. [1995.eng] 50-2805
- Base Pliocene velocity inversion on the eastern Vøring Margin—causes and implications. Reemst, P., et al. [1996.eng] 50-5316
- Basic features of glacial landforms in the Minshan. Tang, B.X., et al. [1994.eng] 50-4783
- Beardmore Glacier glaciogenic succession, Transantarctic Mountains. Webb, P.N., et al. [1996.eng] 50-6630
- Bedrock surface weathering on Finnish fjell summits. McCarroll, D., et al. [1996.eng] 50-5825
- Bedrock topographic effects on subglacial erosion. Rea, B.R., et al. [1996.eng] 50-6249
- Block moraine formation of antarctic glaciers. Fitzsimons, S.J., [1996.eng] 50-6242
- Braided outwash fans in the Gulf of Alaska. Boothroyd, J.C., et al. [1975.eng] 50-4814
- Bunger Hills—its genesis and some physiogeographical problems. Wisniewski, E., [1989.pol] 50-2873
- Catastrophic mass movements in the mountains around the Qinghai-Xizang Plateau. Fort, M., et al. [1995.eng] 50-4835
- Cavities and the effective pressure between abrading clasts and bedrock. Hindmarsh, R.C.A., [1996.eng] 50-6237
- Cenozoic deposition on the Svalbard continental shelf. Solheim, A., et al. [1996.eng] 50-5312
- Cenozoic erosion and sediment yield in the drainage area of the Storfjorden Fan. Hjelstuen, B.O., et al. [1996.eng] 50-5310
- Cenozoic shelf erosion of the Barents Sea margin. Fiedler, A., et al. [1996.eng] 50-5309
- Cenozoic uplift of Fennoscandia inferred from a study of the mid-Norwegian margin. Stuevold, L.M., et al. [1996.eng] 50-5324
- Central Appalachian periglacial geomorphology: a field excursion guidebook. Clark, G.M., ed. [1992.eng] 50-3712
- Changes in the configuration of ice stream flow from the West Antarctic ice sheet. Jacobel, R.W., et al. [1996.eng] 50-4360
- Characteristics of applied geomorphological studies in regions with Pleistocene ice sheets. Spiridonov, A.I., [1995.rus] 50-3772
- Characteristics of basal ice at Engabreen, northern Norway. Janzon, P., et al. [1996.eng] 50-6248
- Characteristics of the post-glacial advance and retreat in Mount Xixia-Bangma region. Zheng, B.X., [1982.chi] 50-6606
- Chronology of late Wisconsin ice retreat from the western Ross Sea, Antarctica. Licht, K.J., et al. [1996.eng] 50-3814
- Climatic implications of Norwegian Neoglaciation glacier maximum. Matthews, J.A., [1991.eng] 50-3306
- Climatological significance of moraine ridges in Iceland. Krüger, J., [1995.eng] 50-2858
- Collected papers on the Quaternary in arid region Xinjiang. Xinjiang University, Xinjiang Geology and Mineral Resources Bureau, Xinjiang Branch Academy of Sciences, [1985.chi] 50-1995
- Comparative analytical techniques for glacial diamictite studies. Walden, J., et al. [1996.eng] 50-6537
- Comparison of subglacial and extra-glacial weathering. Axtmann, E.V., et al. [1995.eng] 50-2436
- Composition and construction of late Pleistocene end moraines, Durango, Colorado. Johnson, M.D., et al. [1995.eng] 50-1859
- Concertina eskers, Brúarjökull, Iceland: an indicator of surge-type glacier behavior. Knudsen, O., [1995.eng] 50-1407
- Contribution to the geomorphological problem of strandflats. Tietze, W., [1962.ger] 50-5743
- Contributions to polar geomorphology by the German Spitsbergen expeditions 1990-1992. Blümel, W.D., [1993.eng] 50-1672
- Contributions to research on Tibet. Pörtge, K.H., ed. et al. [1994.ger] 50-4774
- Contributions to the glacial history of Liefdefjord/NW Spitsbergen. Furrer, G., [1994.ger] 50-1579
- Controls on glacier surging in Svalbard. Hamilton, G.S., et al. [1996.eng] 50-4900
- Current status and prospects of ice age research. Liedtke, H., [1990.ger] 50-1783
- Dating analysis of Norwegian Neoglaciation moraines. Matthews, J.A., et al. [1996.eng] 50-4375
- Dating of soil development on Sierra Nevada moraines. Bach, A.J., et al. [1996.eng] 50-4630
- Debris transfer and sedimentary environments: alpine glaciated areas. Johnson, P.G., [1995.eng] 50-4828
- Deforming bed conditions on the Dänischer Wohld Peninsula, northern Germany. Hart, J.K., et al. [1996.eng] 50-6536
- Deglaciation chronology of West Greenland moraines. Van Tatenhove, F.G.M., et al. [1996.eng] 50-5187
- Deglaciation of a Late Devonian British ice sheet. Merritt, J.W., et al. [1995.eng] 50-1858
- Depositional sequence of the Quaternary period in Xinjiang. Peng, X.L., [1985.chi] 50-2005
- Depositional sequences in glaciolacustrine deltas. Gustavsson, T.C., et al. [1975.eng] 50-4818
- Development of fluvial system of the Dunder Basin (Western Spitsbergen). Harasimuk, M., et al. [1993.eng] 50-2201
- Diamictite facies in the middle glacial periods. Olszewski, A., [1989.pol] 50-2895
- Distribution of ice age sediments in northern Germany. Ehlers, J., [1990.ger] 50-1788
- Distribution, growth, and variation of glaciers in the Kunlun Mountains. Zhang, Z.S., et al. [1986.chi] 50-1989
- Distribution, origin, and hydraulic influence of fractures in a clay-rich glacial deposit. McKay, L.D., et al. [1995.eng] 50-3254
- Division and duration of ice age dating from global comparisons. Brunnacker, K., [1990.ger] 50-1784
- Driving stress, hydraulic head and landform genesis at the southeastern Burroughs Glacier. Gaffield, S.G., et al. [1995.eng] 50-3740
- Dynamics of the last glaciation in eastern Svalbard. Salvigsen, O., et al. [1995.eng] 50-4714
- Early Holocene moraine bank sedimentology of East Greenland. Huddart, D., et al. [1990.eng] 50-929
- Early Pleistocene glaciation in the Qinling Mountains of China. Rost, K.T., [1992.ger] 50-1682
- Early stages of till genesis: an example from Fanore, County Clare, Ireland. Croot, D.G., et al. [1996.eng] 50-5828
- Early studies on stratified drift. Jopling, A.V., [1975.eng] 50-4807
- Effects of moraine-bank sediment budgets on valley glacier stability. Hunter, L.E., et al. [1996.eng] 50-6263
- Englaciation drainage influence on sediment transport pathways. Kirkbride, M., et al. [1996.eng] 50-6255
- Erosion of the Laurentide region of North America by glacial and glaciofluvial processes. Bell, M., et al. [1990.eng] 50-1789
- Erosion rates and sediment evacuation by glaciers. Hallet, B., et al. [1996.eng] 50-5317
- Erosion rates and sediment yields of glaciers. Bogen, J., [1996.eng] 50-6239
- Eskers: an essay of bibliographic review. Levasseur, D., [1995.fre] 50-5042
- Estimating long-term rockfall accretion rates by lichenometry. Luckman, B.H., et al. [1995.eng] 50-4836
- Evolution and age of shorelines along Woodford, northern Spitsbergen. Brückner, H., et al. [1994.eng] 50-1582
- Extent of the Warta Glaciation deposits in the northern foreland of the Lublin upland near Dęblin. Zarski, M., [1993.pol] 50-3669
- Fabric and structure in glaciofluvial gravels. Rust, B.R., [1975.eng] 50-4816
- Fabric signature of subglacial till deformation. Breidamerkjökull, Iceland. Benn, D.I., [1995.eng] 50-3863
- Field guide to the Churchill region, Manitoba. Dredge, L.A., [1992.eng] 50-3910
- Final stages in Laurentide ice sheet collapse, Hudson Strait. Andrews, J.T., et al. [1995.eng] 50-6556
- Fluctuations of local glaciers at the termination of the Pleistocene: 18-8 ka BP. Clapperton, C.M., [1995.eng] 50-500
- Fluctuations of the South Patagonian ice-field during the last glaciation and the Holocene. Marden, C.J., et al. [1995.eng] 50-6211
- Flux of debris transported by ice at three Alaskan tidewater glaciers. Hunter, L.E., et al. [1996.eng] 50-4897
- Formation of De Geer moraines deposited subglacially, central Quebec. Beaudry, L.M., et al. [1995.eng] 50-5035
- Fracturing of glacial drift and bedrock over longwall mine panels. Johnston, M.A., et al. [1993.eng] 50-5517
- Geochemical correlation between coarse and fine fractions of till in southern Finland. Tarvainen, T., [1995.eng] 50-2705
- Geochemistry of volcanic ash in the ice near Brimstone Peak. Faure, G., et al. [1994.eng] 50-1885

Glacial geology

Glacial geology

- Geological and geophysical exploration of alpine and peri-alpine glacial valleys. Pugin, A., et al. [1995, eng] 50-3315
- Geology of the eastern coast of Discovery Bay, Greenwich Island and the South Shetlands. Rudowski, S., [1989, pol] 50-2880
- Geometry and genesis of the glacial sediments in the southern Barents Sea. Vorren, T.O., et al. [1990, eng] 50-928
- Geomorphic effects of the retreat of Jamapa Glacier, Pico de Orizaba Volcano (Mexico). Palacios, D., et al. [1996, eng] 50-5578
- Geomorphological altitude zones in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1994, ger] 50-4775
- Geomorphological and neotectonic features of Hurd Peninsula, Livingston Island, South Shetland Islands. Pallás, R., et al. [1995, eng] 50-1337
- Geomorphological mapping by remote sensing in Spitsbergen. Ståblein, G., et al. [1994, ger] 50-1583
- Geomorphology and dynamics of the Laurentide Ice Sheet in Wisconsin. Ham, N.R., [1994, eng] 50-693
- Geoscientific Spitsbergen Expedition 1990-1992. Blümel, W.D., ed. [1994, ger] 50-1574
- Glacial and fluvial geomorphology of western Himalaya (Liddar Valley). Kaul, M.N., [1990, eng] 50-5550
- Glacial cirque formation in northern Scandinavia. Richardson, C., et al. [1996, eng] 50-6246
- Glacial crushing, weathering and diagenetic histories of quartz grains. Mahaney, W.C., [1995, eng] 50-3595
- Glacial deposit geochemistry at a Manitoba mining site. Nielsen, E., et al. [1991, eng] 50-3911
- Glacial dispersal of mineralized bedrock mercury. Plouffe, A., [1995, eng] 50-882
- Glacial environments. Menzies, J., [1995, eng] 50-3581
- Glacial erosion as a consequence of subglacial sediment deformation. Boulton, G.S., [1996, eng] 50-4891
- Glacial flow systems in the zone of confluence between the Scandinavian and Novaya Zemlya ice sheets. Punkari, M., [1995, eng] 50-2130
- Glacial genesis of the high terraces of the Lower Liswarta River. Kobjek, S., et al. [1993, pol] 50-3660
- Glacial geology and petrography of erratics in Shackleton Range, Antarctica. Hoffe, H.C., et al. [1995, eng] 50-1525
- Glacial geology: how ice shapes the land. Erickson, J., [1996, eng] 50-3555
- Glacial geomorphic features in the northern Barents Sea. Solheim, A., et al. [1990, eng] 50-927
- Glacial influence on offshore Norwegian sediment properties. Sætem, J., et al. [1996, eng] 50-5320
- Glacial isostasy and lateral mantle viscosity. Sabadini, R., et al. [1989, eng] 50-4710
- Glacial isostatic uplift of Tibet as a consequence of a former ice sheet. Kühle, M., [1995, eng] 50-6064
- Glacial landforms of Glen Geussachen. Bennett, M.R., et al. [1991, eng] 50-3034
- Glacial or non-glacial origin for the Bigganjarga tillite, Finnmark, northern Norway. Jensen, P.A., et al. [1996, eng] 50-4395
- Glacial overdeepened valleys in the Austrian Alps. Van Husen, D., [1990, ger] 50-1790
- Glacial processes, sediments, landforms, and stratigraphy at Myrdalsjøkull. Krüger, J., [1994, eng] 50-166
- Glacial quarrying: a simple theoretical model. Hallet, B., [1996, eng] 50-6233
- Glacial rebound of the British Isles—III: constraints on mantle viscosity. Lambeck, K., et al. [1996, eng] 50-4737
- Glacial terrestrial deposition. Whiteman, C.A., [1995, eng] 50-3589
- Glacially-influenced sedimentation on the Hebridean slope. Stoker, M.S., [1990, eng] 50-933
- Glacially-influenced Yakutat Formation on Middleton I. Eyles, C.H., et al. [1990, eng] 50-934
- Glacier fluctuations and sediment yields in Glacier Bay. Cai, J.K., et al. [1995, eng] 50-3733
- Glacier process studies at Burroughs Glacier. Mickelson, D.M., et al. [1995, eng] 50-3738
- Glacier retreat and raised beaches at Three Sisters Point. Birkenmajer, K., [1995, eng] 50-3937
- Glacier sediment transport. Kirkbride, M.P., [1995, eng] 50-3588
- Glacier-fed delta at a Barents Sea fjord. Laberg, J.S., et al. [1996, eng] 50-5921
- Glaciers and glaciation in Glacier National Park, Montana. Carrara, P.E., [1993, eng] 50-4795
- Glaciers and ice sheets. Menzies, J., [1995, eng] 50-3584
- Glaciomarine deposits in southwestern Sweden. Stevens, R.L., [1990, eng] 50-930
- Glaciomarine sediments from the Celtic Sea. Scourse, J.D., et al. [1990, eng] 50-932
- Glacio-isostatic implications of Swedish Holocene shore displacement. Berglund, M., [1995, eng] 50-3367
- Glaciofluvial and glaciolacustrine sedimentation. Jopling, A.V., ed. [1975, eng] 50-4806
- Glaciofluvial sedimentation in the vicinity of Warka during the Warta Glaciation. Grzybowski, K., [1993, pol] 50-3655
- Glaciology and glacial geomorphology of fjords in Spitsbergen. King, L., et al. [1994, ger] 50-1586
- Glaciotectionic process at Svalbard. Hambrey, M.J., et al. [1995, eng] 50-6559
- Glaciostatic structures and their morphological expression in the Warta Glaciation zone. Klatkova, H., [1993, pol] 50-3659
- Global change research at Glacier Bay National Park. Powell, R.D., [1995, eng] 50-3731
- Global chemical weathering on glacial time scales. Kump, L.R., et al. [1994, eng] 50-1239
- Global glacial chronologies and causes of glaciation. Calkin, P.E., et al. [1995, eng] 50-3582
- Great Qinghai-Xizang ice sheet. Han, T.L., [1991, chi] 50-2176
- Groundwater flow through Ontario glacial deposits. Gerber, R.E., et al. [1996, eng] 50-6750
- Growth and decay of the Laurentide Ice Sheet and comparisons with Fennoscandia. Ives, J.D., et al. [1990, eng] 50-1787
- Growth curves for calcium-tolerant lichens in the Canadian Rocky Mountains. McCarthy, D.P., et al. [1995, eng] 50-3330
- Holocene glacial chronology in Patagonia: Tyndall and Upsala glaciers. Aniya, M., [1995, eng] 50-2806
- Holocene variations of Ameghino Glacier, southern Patagonia. Aniya, M., [1995, eng] 50-6081
- Holocene evolution of a stretch of an eastern Italian alpine valley. Friz, C., et al. [1995, eng] 50-6697
- Ice age research. Liedtke, H., ed. [1990, ger] 50-1780
- Ice age significance of Rhine terraces. Boenigk, W., [1990, ger] 50-1786
- Ice rafting history from the Spitsbergen ice cap over the last 200 kyr. Lloyd, J.M., et al. [1996, eng] 50-5224
- Ice sheet model test via glacial geological research in West Greenland. Van Tatenhove, F.G.M., et al. [1995, eng] 50-2013
- Ice sheet modeling and reconstruction. Hughes, T.J., [1995, eng] 50-3583
- Ice-age history of Alaskan national parks. Elias, S.A., [1995, eng] 50-857
- Ice-flow indications of complex Alaskan deglaciation events. Syversen, K.M., [1995, eng] 50-1801
- Ice-proximal sediment dynamics in Glacier Bay. Hunter, L.E., et al. [1995, eng] 50-3735
- Impact of subglacial geothermal activity on glacier meltwater quality. Lawler, D.M., et al. [1996, eng] 50-6087
- Impact of subglacial groundwater flow on moraine formation. Boulton, G.S., et al. [1995, eng] 50-2129
- Implication of glacial dispersal patterns for mineral exploration. McEneaney, M.B., et al. [1996, eng] 50-6515
- Implications of bedrock cosmic ray exposure age for Fennoscandian ice sheet height. Brook, E.J., et al. [1996, eng] 50-3813
- Implications of glacial deposit physical properties for radiocarbon dating. Karrow, P.F., [1992, eng] 50-2563
- Influence of a finite glaciation phase on predictions of post-glacial isostatic adjustment. Mitrovica, J.X., et al. [1995, eng] 50-2723
- Influence of glaciation on the basin temperature regime. Johansen, H., et al. [1996, eng] 50-5328
- Inquiry on ice ages in Mount Xixia Bangma region. Shi, Y.F., et al. [1982, chi] 50-6605
- Interaction between subglacial sediment and meltwater. Collins, D.N., [1996, eng] 50-6265
- Interhemispheric correlation of Late Pleistocene glacial events. Lowell, T.V., et al. [1995, eng] 50-231
- Internal and basal ice changes near the grounding line derived from radio-echo sounding. Uratsuka, S., et al. [1996, eng] 50-4895
- Interpretation of faults in glaciofluvial sediments. McDonald, B.C., et al. [1975, eng] 50-4810
- Interpretation of subglacially-deformed materials. Benn, D.I., et al. [1996, eng] 50-5583
- Inverse relation between ice extent and the late Paleozoic glacial record of Gondwana. González-Bonorino, G., et al. [1995, eng] 50-1807
- Is erosion by deforming subglacial sediments significant? (Toward till continuity). Cuffey, K., et al. [1996, eng] 50-6235
- Isotope composition of the ice and subglacial geology near the Allan Hills. Faure, G., et al. [1993, eng] 50-6319
- Karakorum ice cover variations during the last glaciation. Kühle, M., [1994, eng] 50-1533
- Kulshan caldera: a Quaternary subglacial caldera in the North Cascades, Washington. Hildreth, W., [1996, eng] 50-6547
- Laboratory exercise introducing glacial geomorphology. Harbor, J.M., et al. [1995, eng] 50-3861
- Laboratory study of sediment deformation: stress heterogeneity and grain-size evolution. Iverson, N.R., et al. [1996, eng] 50-6256
- Landform and sediment associations of dry-based glaciers in arid polar environments. Humphreys, K.A., et al. [1996, eng] 50-6577
- Landforms associated with Pleistocene glaciation in Ireland. Wilson, P., et al. [1995, eng] 50-5486
- Last Scottish ice-sheet: facts and speculative discussion. Sissons, J.B., [1981, eng] 50-3620
- Late Cenozoic evolution of the western Barents Sea-Svalbard continental margin. Faleide, J.I., et al. [1996, eng] 50-5308
- Late Cenozoic sedimentation and uplift history on the mid-Norwegian continental shelf. Henriksen, S., et al. [1996, eng] 50-5315
- Late Cenozoic tectonics and the dynamics of the west antarctic ice sheet. Behrendt, J.C., et al. [1994, eng] 50-1884
- Late glacial raised beaches and glacier recession in northeast Iceland. Norddahl, H., et al. [1993, eng] 50-4772
- Late Pleistocene equilibrium-line reconstructions in the northern Peruvian Andes. Rodbell, D.T., [1992, eng] 50-2549
- Late Quaternary glacial and climatic history of the Liddar Valley, Kashmir Himalaya. Kaul, M.N., [1994, eng] 50-5549
- Late Quaternary glacial and environmental history of Kongsoya, Svalbard. Ingólfsson, O., et al. [1995, eng] 50-4713
- Late Quaternary glaciation history and landscape development in Spitsbergen. Blümel, W.D., et al. [1994, ger] 50-1578
- Late Quaternary stratigraphy and glaciology in the Thule area. Northwest Greenland. Funder, S., ed. [1990, eng] 50-5169
- Late Quaternary subaqueous outwash deposits near Ottawa, Canada. Rust, B.R., et al. [1975, eng] 50-4813
- Late Weichselian deglaciation in the Murman offshore. Samoilovich, I.U.G., et al. [1993, eng] 50-2210
- Late Weichselian glacial maximum on Andøya, north Norway. Möller, J.J., et al. [1992, eng] 50-2546
- Late Weichselian to early Holocene sedimentation in eastern Svalbard. Möller, P., et al. [1995, eng] 50-4716
- Late Wisconsinan ice retreat from the Scotian Shelf. King, L.H., [1996, eng] 50-6533
- Late Wisconsinan outwash in southeastern British Columbia. Clague, J.J., [1975, eng] 50-4815
- Late-glacial advances in the western Italian Alps. Porter, S.C., et al. [1982, eng] 50-3383
- Lateglacial and Holocene variations of the Grey Glacier, an outlet of the South Patagonian icefield. Marden, C.J., [1993, eng] 50-3013
- Laurentide ice sheet oscillations as cause of Atlantic Ocean Heinrich events. MacAyeal, D.R., [1993, eng] 50-2869
- Lichenometric dating of alpine Little Ice Age moraines. Winkler, S., et al. [1995, ger] 50-3396
- Limits on the areal extent of the Barents Sea ice sheet in Late Weichselian time. Lambeck, K., [1996, eng] 50-5307
- Lobal interactions and tectonic superposition in subglacial till near Bradville, Ontario, Canada. Hickock, S.R., [1992, eng] 50-2550
- Long-term ice-sheet stability study in Ross Sea cores. Licht, K., et al. [1994, eng] 50-1893
- Luminescence dating of the deglaciation in northern Sweden. Lundqvist, J., et al. [1995, eng] 50-515
- Lumped-element model for subglacial transport of solute and suspended sediment. Clarke, G.K.C., [1996, eng] 50-6254
- Magnetic analysis of glacial sediment weathering. Walden, J., et al. [1995, eng] 50-6562
- Mantle rebound from data inversion of glacier isostatic dynamics. Peltier, W.R., et al. [1996, eng] 50-3548
- Mapping the architecture of glaciofluvial sediments with three-dimensional georadar. Beres, M., et al. [1996, eng] 50-2529
- Margin of the last Barents-Kara ice sheet at Markhida, northern Russia. Tveranger, J., et al. [1995, eng] 50-2014
- Marine fossils and glacial history of raised beach deposits around Lützow-Holm Bay. Igarashi, A., et al. [1995, eng] 50-3695
- Marine glacial deposition around the South Shetland Islands. Huang, H.Y., et al. [1989, chi] 50-6784
- Marine record of the Russell Fjord outburst flood, Alaska. U.S.A. Cowan, E.A., et al. [1996, eng] 50-6260
- Mass exchange between meltwater streams and proglacial deposits. Holmlund, P., et al. [1996, eng] 50-6241
- Mass movements in glaciomarine sediments on the Barents Sea continental slope. Kuvaas, B., [1996, eng] 50-5321
- Micromorphology of basal till, Burroughs Glacier, Alaska. Ham, N.R., et al. [1995, eng] 50-3741
- Middle and Late Pleistocene evolution of the Bear Island Trough Mouth Fan. Laberg, J.S., et al. [1996, eng] 50-5322
- Modern glacial environments: processes, dynamics and sediments. Menzies, J., ed. [1995, eng] 50-3580
- Modern glaciomarine environments. Powell, R.D., et al. [1995, eng] 50-3594
- Moraine bank facies in Ireland. McCabe, A.M., et al. [1995, eng] 50-921
- Moraine bank ground-line process during coastal Maine deglaciation. Hunter, L.E., et al. [1996, eng] 50-6532
- Moraine dating supports Younger Dryas cooling event. Gosse, J.C., et al. [1995, eng] 50-1255
- Moraine formation from subglacial frozen sedimentation. Krüger, J., [1996, eng] 50-5830
- Moraine types from the last glaciation in the Qinghai-Xizang Plateau. Liu, S.J., et al. [1994, eng] 50-4782
- Moraines and buried ice in Terra Nova Bay area. Meneghel, M., et al. [1994, ita] 50-2825
- Moraines and ice scoured topographies in southern Patagonia. Yamada, S., [1992, eng] 50-380
- Morphological-paleogeographical features of the Warta Glaciation relief in the Rawka River lobe. Klajnert, Z., [1993, pol] 50-3657
- Nature of esker sedimentation. Banerjee, I., et al. [1975, eng] 50-4811
- New indicator of glacial dispersal: lead isotopes. Bell, K., et al. [1995, eng] 50-1857
- No evidence for extreme, long term warming in early Pliocene sediments of the Southern Ocean. Burckle, L.H., et al. [1996, eng] 50-6627
- Nomenclature applied to deposits formed in glacial and ice-contact environments. Hill, H.K., et al. [1996, eng] 50-5711
- North Sea lithostratigraphy related to glacial isostasy. Ekman, S.R.R., [1995, eng] 50-6560
- Novel Pleistocene ice flow directions in Poland and Germany. Lagerlund, E., et al. [1995, eng] 50-509
- Numerical reconstruction of a soft-bedded Laurentide Ice Sheet during the last glacial maximum. Clark, P.U., et al. [1996, eng] 50-6539
- Nunataks of the last ice sheet in northwest Scotland. McCarrroll, D., et al. [1995, eng] 50-3366

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- Observations of the grounding-line area at a floating glacier terminus. Powell, R.D., et al. [1996,eng] 50-6264
- Ocean bottom trenching by an Icelandic glacier. Björnsson, H., [1996,eng] 50-6252
- Old moraines in Lågnessfya (Western Spitsbergen). Musiaf, A., [1989,pol] 50-2891
- On ancient ice-sheet and ice age in the Tibetan Plateau. Xu, D.M., et al. [1995,chi] 50-5632
- On the paleoclimatology of the Tibetan Plateau during the last glaciation. Frenzel, B., [1994,ger] 50-4777
- On the Quaternary paleoglacial action of the northern Tianshan. Zhang, H.Y., [1985,chi] 50-2001
- On the sedimentary environment of the glaciofluvial terraces of the Tian Shan Mountains near Urumqi. Han, S.T., [1985,chi] 50-2002
- On the sedimentological character of alpine basal ice facies. Hubbard, B., et al. [1996,eng] 50-6259
- Origin of till sequences beneath mid-latitude ice sheets. Boulton, G.S., [1996,eng] 50-6243
- Paleoclimatic changes and glacier variations in Colombia. Thouret, J.C., et al. [1996,eng] 50-6706
- Paleoclimatic interpretation of rock glacier dating. Nicholas, J.W., et al. [1996,eng] 50-5577
- Paleogeology's grand unsolved problem. Grosvald, M.G., et al. [1995,eng] 50-453
- Paleomagnetic age constraints on New Zealand glacial deposits. Fitzsimons, S.J., et al. [1996,eng] 50-6576
- Paraglacial coasts. Forbes, D.L., et al. [1994,eng] 50-493
- Past and present glacial landforms of the central Qilian Shan. Lehmkühl, F., [1995,ger] 50-6077
- Past glaciation and sea levels on Bjørnøya, Svalbard. Salvigsen, O., et al. [1995,eng] 50-4720
- Periglacial elements in the geological structure and relief of northern Częstochowa. Kobjek, S., [1990,pol] 50-4941
- Permafrost in glaciofluvial sediments of the last glaciation. Habbe, K.A., [1993,eng] 50-1678
- Permafrost influence on glacier sediment deformation. Etzelmüller, B., et al. [1996,eng] 50-6240
- Petroleum in glacially-related sandstones of Gondwana: a review. Potter, P.E., et al. [1995,eng] 50-3252
- Photogrammetry and geomorphology of high arctic push moraines. King, L., et al. [1993,eng] 50-1673
- Pleistocene geomorphology of Qinghai Lake, China. Nakao, K., et al. [1995,eng] 50-6717
- Pleistocene glacial lake sedimentology. Scotland. Benn, D.I., [1996,eng] 50-5827
- Pleistocene glaciation in northwestern British Columbia. Spooner, I.S., et al. [1995,eng] 50-4526
- Pleistocene glaciation of the German uplands as reflected in recent research. Rother, K., [1995,ger] 50-744
- Pleistocene glaciation of the Outer Hebrides, Scotland. Ballantyne, C.K., et al. [1995,eng] 50-6212
- Pleistocene glaciations in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1993,eng] 50-1677
- Pleistocene glacier thicknesses inferred from electron microscopy of till microtextures. Mahaney, W.C., [1995,eng] 50-3365
- Pleistocene paraglacial landsliding in South Wales. Shakesby, R.A., et al. [1996,eng] 50-5859
- Pleistocene stratigraphy of the Athabasca River valley region, Rocky Mountains, Alberta. Levson, V.M., et al. [1995,eng] 50-5037
- Pleistocene-Holocene transition in Sweden. Lord, A.R., [1990,eng] 50-931
- Pliocene paleoclimate of Dry Valleys of Southern Victoria Land. Marchant, D.R., et al. [1996,eng] 50-6629
- Pliocene sand ridges at the Barents Sea margin. Knutsen, S.M., et al. [1996,eng] 50-5314
- Possible influence of glacial eustasy on antarctic shelf stratigraphy. Bartek, L.R., et al. [1996,eng] 50-4823
- Post glacial emergence and the Tapes transgression, north-central Kola Peninsula, Russia. Snyder, J.A., et al. [1996,eng] 50-5829
- Post-glacial mass flow and associated deposits in paleovalleys of Greenland. Collinson, J.D., et al. [1989,eng] 50-5168
- Postglacial microbiological weathering of granite roches moutonnées. André, M.F., [1995,eng] 50-4832
- Postglacial sea-level history of Edgeøya and Barentsøya, eastern Svalbard. Bondevik, S., et al. [1995,eng] 50-4715
- Practical considerations for GRM refraction surveys in glacial terrains. Kasse, N.A., et al. [1993,eng] 50-5516
- Pre-Illinoian glacial stratigraphy in north-central Missouri. Rovey, C.W., III, et al. [1996,eng] 50-4585
- Precambrian glaciomarine sedimentation in East Greenland. Moncrieff, A.C.M., et al. [1990,eng] 50-935
- Present and early Holocene foraminiferal distribution in eastern Svalbard. Hansen, A., et al. [1995,eng] 50-4718
- Primary division of Quaternary in Xinjiang. Yang, Z.X., et al. [1985,chi] 50-2004
- Problematic ice sheets. Rutter, N.W., [1995,eng] 50-498
- Problems in geodynamic studies of Antarctica. Gutcher, A., [1989,pol] 50-2874
- Proceedings of the First Conference of Russian Geocryologists. June 3-5, 1996, Moscow, Vol. 1. Konferentsia geokriologov Rossi, 1st, Moscow State University, June 3-5, 1996, [1996,rus] 50-6349
- Proceedings. Glacier Bay Science Symposium, 3rd, Glacier Bay National Park and Preserve, Gustavus, AK, Sep. 15-18, 1993, [1995,eng] 50-3730
- Proceedings. International Symposium on Glacial Erosion and Sedimentation, Reykjavik, Iceland, Aug. 20-25, 1995, [1996,eng] 50-6232
- Processes of glacial erosion. Iverson, N.R., [1995,eng] 50-3587
- Processes of glaciotectionism. Van der Wateren, F.M., [1995,eng] 50-3590
- Products of subglacial volcanic eruptions under different ice thicknesses. Smellie, J.L., et al. [1994,eng] 50-2993
- Progress in glaciology and Quaternary glaciation research in China since 1978. Shi, Y.F., et al. [1995,eng] 50-4510
- Qinghai-Xizang Plateau during the maximum glaciation. Shi, Y.F., et al. [1995,chi] 50-5616
- Quantification of Barents Sea Pleistocene bottom erosion. Rasmussen, E., et al. [1996,eng] 50-5311
- Quaternary geology and geomorphology of Mount Xixia Bangma region. Liu, D.S., et al. [1982,chi] 50-6602
- Quaternary geology and the last two glaciations in Alberta. Jackson, L.E., Jr., [1994,eng] 50-86
- Quaternary geology of the Buchans area, Newfoundland: implications for mineral exploration. Klassen, R.A., et al. [1996,eng] 50-6634
- Quaternary glacial in the Andes. Heine, K., [1995,eng] 50-4837
- Quaternary glacial transport in the Hudson Bay region. Parent, M., et al. [1995,eng] 50-4527
- Quaternary glaciation in the Karakoram and Himalayas. Derbyshire, E., [1996,eng] 50-5097
- Quaternary glaciations in the eastern and central Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4776
- Quaternary periglacial conditions of a Himalayan river valley fill. Marb, B.S., et al. [1994,eng] 50-5548
- Quaternary record of eastern Svalbard—an overview. Landvik, J.Y., et al. [1995,eng] 50-4711
- Quaternary sea level history in the Northwest Territories, Canada. Kerr, D.E., [1996,eng] 50-6553
- Quaternary sedimentary processes and budgets in Orphan Basin, southwestern Labrador Sea. Hiscott, R.N., et al. [1996,eng] 50-4579
- Quaternary stratigraphy of the buried valleys of the lower Red Deer River, Alberta, Canada. Evans, D.J.A., et al. [1995,eng] 50-1080
- Quaternary terraces and related deposits in the western Wind River Basin, Wyoming. Jaworowski, C., [1993,eng] 50-702
- Radiocarbon dating of glacial moraines in California. Dorn, R.I., [1996,eng] 50-6098
- Rapid isostatic rebound in southwestern Iceland at the end of the last glaciation. Ingólfsson, O., et al. [1995,eng] 50-1802
- Recent drumlins, flutes and lineations at Vestari-Hagafellsjökull, Iceland. Hart, J.K., [1995,eng] 50-1880
- Record of Holocene paleoclimatic changes from glacial marine sediments in Lallemand Fjord. Shevenell, A.E., [1996,eng] 50-4074
- Record of Warta processes in the base of the mountain Ner River valley. Turkowska, K., [1993,pol] 50-3667
- Regional-scale meltwater erosion and deposition patterns, northern Quebec, Canada. Brennand, T.A., et al. [1996,eng] 50-6244
- Relevance of glacial bed debris to glacial mechanics. Gow, A.J., et al. [1996,eng] 50-6251
- Relict sorted patterned ground in Rostu, northernmost Sweden. Kling, J., [1996,eng] 50-5581
- Relief of the Breinesfya plain and Wiederfjället massif in western Sörkapp Land (Spitsbergen). Gébica, P., [1989,pol] 50-2889
- Report on the Mount Xixia Bangma region scientific expedition, 1964. [1982,chi] 50-6593
- Research on the glaciation of the Larsemann Hills, East Antarctica. Li, S.K., [1995,chi] 50-3641
- Revision of the lateglacial Swedish varve chronology. Strömberg, B., [1990,eng] 50-1791
- Rhythmic sedimentation in Glacial Lake Hitchcock, Massachusetts-Connecticut. Ashley, G.M., [1975,eng] 50-4820
- Scandinavian Pleistocene tectonic correlations. Riis, F., [1996,eng] 50-5323
- Scottish landform examples. 8: Solifluction sheets in the Bowmont Valley, Cheviot Hills. Harrison, S., [1993,eng] 50-3015
- Scottish landform examples. 9: Moraines in Coire na Creiche, Isle of Skye. Benn, D.I., [1993,eng] 50-3016
- Sea level variations related to glacial isostasy. Mitrovica, J.X., et al. [1995,eng] 50-1185
- Seasonal variations in arctic glacier sediment transport. Hodgkins, R., [1996,eng] 50-6253
- Sediment discharge from an Alaskan surging glacier. Merrand, Y., et al. [1996,eng] 50-6266
- Sediment flux along glaciated continental margins. Andrews, J.T., et al. [1994,eng] 50-1241
- Sediment flux from a fjord during glacial periods, Isfjorden, Spitsbergen. Hooke, R. L., et al. [1996,eng] 50-5318
- Sediment types and sedimentation of the northwestern sea area of the Antarctic Peninsula. Lin, C.Q., et al. [1989,chi] 50-6785
- Sedimentary and hydrologic processes within modern terrestrial valley glaciers. Lawson, D.E., [1995,eng] 50-3591
- Sedimentary environments associated with glacial Lake Trimmingham, Norfolk, UK. Hart, J.K., [1992,eng] 50-2554
- Sedimentary successions in Pleistocene ice-marginal lakes. Shaw, J., [1975,eng] 50-4819
- Sedimentological data on cores from the Joides Basin. Corradi, N., et al. [1995,eng] 50-4394
- Sedimentology and geomorphology of drumlins in western Allgäu, south Germany. De Jong, M.G.G., et al. [1982,eng] 50-3381
- Sedimentology of the Brampton esker in Ontario. Sanderson, H.C., [1975,eng] 50-4812
- Sediments and landforms of modern proglacial terrestrial environments. Maizels, J., [1995,eng] 50-3592
- Sediments in the Liefdefjord and Woodfjord of Spitsbergen. Kroemer, E.A., et al. [1994,eng] 50-1580
- Seismic investigation of glacial tunnel channels. Pugin, A., et al. [1996,eng] 50-6257
- Seismic survey of the Ross Sea continental shelf. Shipp, S.S., et al. [1994,eng] 50-2694
- Sequence analysis of Canadian glaciolacustrine deposits. Martini, I.P., et al. [1995,eng] 50-1084
- Sequence of glacial ice flows in Abitibi-Timiskaming. Veilleux, J.J., et al. [1996,eng] 50-2499
- Simulation of Pleistocene glacial limits in Yunnan, China. Aniya, M., et al. [1991,eng] 50-3307
- Skógar Tephra, a Younger Dryas marker in North Iceland. Nordahl, H., et al. [1992,eng] 50-2548
- Sliding of glacial till over bedrock. Hindmarsh, R.C.A., [1996,eng] 50-6238
- Soil/weathering rate relations from glacial sediment chemical evolution. Taylor, A., et al. [1995,eng] 50-1806
- Some contributions to the study of landforms and geomorphic processes. Barsch, D., ed, et al. [1993,eng] 50-1671
- Steepland geomorphology. Slaymaker, O., ed, [1995,eng] 50-4827
- Stratigraphy of Yorkshire, England glacial deposits. Evans, D.J.A., et al. [1995,eng] 50-6213
- Stria distribution and subglacial processes in the Tianshan Mountains. Cui, Z.J., et al. [1995,eng] 50-4520
- Study on the sequences of the Quaternary glaciations in the Bayan Har Mountains. Zhou, S.Z., [1995,chi] 50-5633
- Subglacial chemical erosion in a Swiss mountain glacier. Brown, G.H., et al. [1996,eng] 50-6236
- Subglacial ice accretion in an Alaskan glacier. Strasser, J.C., et al. [1996,eng] 50-6250
- Subglacial sediment deformation and rapid changes in the Laurentide Ice Sheet. Jensen, J.W., et al. [1996,eng] 50-5915
- Subsurface seismotectonographic mapping at Anchorage. Schmoll, H.R., et al. [1986,eng] 50-483
- Summary of Project IGCP-253. Lundqvist, J., et al. [1995,eng] 50-497
- Supraglacial debris transport over time. Whalley, W.B., et al. [1996,eng] 50-6258
- Supraglacial sediment accretion in Icelandic glaciers. Näslund, J.O., et al. [1996,eng] 50-4904
- Suspended sediment weathering in alpine glacial meltwater. Brown, G.H., et al. [1996,eng] 50-6088
- Suspended sediments and organic carbon in Glacier Bay fjords. Cowan, E.A., [1995,eng] 50-3734
- Swedish Antarctic Research Programme, 1989/90: a cruise report. Reuterskiöld, M., [1992,eng] 50-1418
- System of climatic geomorphology based on landscape typing. Hövermann, J., [1990,ger] 50-1782
- Tectonic records derived from petrology at a glacier fringe. Pavlis, T.L., et al. [1995,eng] 50-1833
- Thermal regime of Holocene Greenland ice sheet moraine formation. Van Tatenhove, F.G.M., et al. [1996,eng] 50-5582
- Tholeiitic-alcaline transition at subglacial volcanoes. Tuya region, British Columbia, Canada. Moore, J.G., et al. [1995,eng] 50-3012
- Thrusting and debris entrainment in a surging glacier: Bakanin-breen, Svalbard. Hambrey, M.J., et al. [1996,eng] 50-6267
- Till genesis through shear diffusion. Charbonneau, R., et al. [1995,eng] 50-3364
- Till provenance studies of Idaho paleoglaciators. Brugger, K.A., [1996,eng] 50-6245
- Topographic control on the dynamics of the Svalbard-Barents Sea ice sheet. Siegert, M.J., et al. [1996,eng] 50-5306
- Tunnel valley genesis. Cofaigh, C.O., [1996,eng] 50-5012
- Variations of Upsala Glacier in southern Patagonia since the late Holocene to the present. Malagnino, E., et al. [1992,eng] 50-379
- Weathering processes in marbles from Independence and Patriot Hills. Yoshikawa, K., et al. [1995,eng] 50-4383
- Weddell Sea glaciomarine sedimentation variations. Crawford, K., et al. [1996,eng] 50-6261
- Weddell Sea glaciomarine sedimentation variations. Crawford, K., et al. [1996,eng] 50-6261
- West Antarctic ice sheet removal of subglacial volcanic artefacts. Behrendt, J.C., et al. [1995,eng] 50-2530
- West Siberian Quaternary stratigraphy. Arkipov, S.A., et al. [1994,eng] 50-1210
- XVI Polar Symposium: Achievements and Prospects of Polish Polar Research, Toruń, Sep. 19-20, 1989. Polar Symposium, 16th, Toruń, Poland, Sep. 19-20, 1989, [1989,pol] 50-2870
- XX Polar Symposium. Man impact on polar environment. Polar Symposium, 20th, Lublin, Poland, June 3-5, 1993, [1993,eng] 50-2180
- Younger Dryas end moraines in Finland and NW Russia. Rainio, H., et al. [1995,eng] 50-514
- Younger Dryas ice-marginal deposits in Norway. Andersen, B.G., et al. [1995,eng] 50-511
- Younger Dryas ice-marginal zone in Sweden. Lundqvist, J., [1995,eng] 50-512
- Glacial hydrology
- 1994 Luge Tsho glacial lake outburst flood, Bhutan Himalaya. Watanabe, T., et al. [1996,eng] 50-4236

Glacial lakes

Glacial lakes

- Annual net balance of North Cascade glaciers, 1984-94. Pelto, M.S., [1996,eng] 50-4886
- Avalanches and their role in nourishment of the Inyl'chek Glacier. Ziabkin, V.V., [1972,rus] 50-553
- Basal water pressure as indicator of subglacial drainage patterns. Stone, D.B., et al., [1996,eng] 50-6090
- Bibliography on the hydrology of the Himalaya-Karakoram region. Young, G.J., et al., [1996,eng] 50-5273
- Calculating the hydrography of glacier runoff considering the travel time. Pertsiger, F.I., [1991,rus] 50-15
- Changing drainage patterns within South Cascade Glacier, Washington, USA, 1964-1992. Fountain, A.G., et al., [1995,eng] 50-2431
- Characteristics of basal ice at Engabreen, northern Norway. Jansson, P., et al., [1996,eng] 50-6248
- Characteristics of runoff formation at the Kirgizskiy Alatau, Tien Shan. Aizen, V.B., et al., [1995,eng] 50-2435
- Characteristics of tide-water calving at Glacier San Rafael, Chile. Warren, C.R., et al., [1995,eng] 50-450
- Climate change in mountain environments. Willis, I., et al., [1995,eng] 50-1522
- Climatic effects on terminus variations of a Norwegian glacier. Nesje, A., et al., [1995,eng] 50-1836
- Cold climate hydrometeorology. Upadhyay, D.S., [1995,eng] 50-5508
- Comment and reply on paper by Batterson et al. Brookes, I.A., et al., [1995,eng] 50-1083
- Comments on the use of chemically based mixing models in glacier hydrology. Sharp, M., et al., [1995,eng] 50-447
- Comparison of subglacial and extra-glacial weathering. Axtmann, E.V., et al., [1995,eng] 50-2436
- Concertina eskers, Brúarjökull, Iceland: an indicator of surge-type glacier behavior. Knudsen, O., [1995,eng] 50-1407
- Danger of lake burst flooding from a Himalayan glacial lake. Watanabe, T., et al., [1995,eng] 50-3338
- Degree-day glacier mass balance modelling. Jóhannesson, T., et al., [1995,eng] 50-455
- Determination of snowmelt factor in the Himalayan region. Singh, P., et al., [1996,eng] 50-5705
- Discharge and fluvial sediment transport in a semi-arid Andean catchment. Barsch, D., et al., [1994,eng] 50-1544
- Dissolution kinetics, subglacial pathways and solute content of alpine meltwater. Collins, D.N., [1995,eng] 50-6045
- Dissolution kinetics, subglacial pathways and solute content of meltwater. Collins, D.N., [1995,eng] 50-3124
- Driving stress, hydraulic head and landform genesis at the southeastern Burroughs Glacier. Gaffield, S.G., et al., [1995,eng] 50-3740
- Dynamics of the processes of mechanical and chemical denudation in the Bellsund region. Bartoszewski, S., et al., [1989,pol] 50-2883
- Effect of extreme weather conditions on hydrological phenomena in Spitsbergen. Szczepaniak, W., et al., [1989,pol] 50-2914
- Effect of snow hydrology on glacial runoff. Fountain, A.G., [1996,eng] 50-6084
- Energy balance model for a small valley glacier, pt. I. Arnold, N.S., et al., [1996,eng] 50-4893
- Energy—water—mass balance and hydrological discharge. Kang, E.S., [1994,eng] 50-5576
- Englacial drainage influence on sediment transport pathways. Kirkbride, M., et al., [1996,eng] 50-6255
- Erosion rates and sediment yields of glaciers. Bogen, J., [1996,eng] 50-6239
- Eskers: an essay of bibliographic review. Levasseur, D., [1995,fr] 50-5042
- Exceptional storm and its effects in the Canadian High Arctic. Cogley, J.G., et al., [1976,eng] 50-3679
- Factors controlling suspended sediment transport in Himalayan glacier meltwaters. Hasnain, S.I., [1996,eng] 50-5688
- Firn boundary as a high altitude ridge of the belt flow in mountain basins. Shcheglova, O.P., [1973,rus] 50-434
- Floods resulting from glacial lake outbursts, Yrqiand River basin, Xinjiang, China. Li, J., et al., [1994,eng] 50-1535
- Glacial dynamics, material transfer and sedimentation in Spitsbergen. Sollid, J.L., et al., [1994,eng] 50-1585
- Glacial-hydrological studies of the Syr Darya basin. Kamalov, B.A., [1973,rus] 50-426
- Glacier resources and distributive characteristics in the Central Asia Tianshan Mountains. Liu, C.H., [1995,chi] 50-5630
- Glacier resources in the Karakorum-Kunlun Mts. and their utilization. Su, Z., [1992,chi] 50-1489
- Glacier river water study in Austre Okstindbreen Basin. Theakstone, W.H., et al., [1994,eng] 50-5700
- Glaciers and global warming. Koerner, R.M., et al., [1995,eng] 50-5040
- Glaciolacustrine environments. Ashley, G.M., [1995,eng] 50-3593
- Glaciology and glacial geomorphology of fjords in Spitsbergen. King, L., et al., [1994,ger] 50-1586
- Groundwater flow beneath ice sheets: part I—large scale patterns. Boulton, G.S., et al., [1995,eng] 50-2128
- Heuristic model for sea level rise due to the melting of small glaciers. Wigley, T.M.L., et al., [1995,eng] 50-1215
- History and drainage of large ice-dammed lakes along the Laurentide ice sheet. Teller, J.T., [1995,eng] 50-503
- Hydraulic geometry of the supraglacial stream Ragnarbreen, Spitsbergen. Koszarski, A., et al., [1989,pol] 50-2893
- Hydraulic run-away: a mechanism for thermally regulated surges of ice sheets. Fowler, A.C., et al., [1995,eng] 50-1876
- Hydrochemical indicators of subglacial drainage system structure. Tranter, M., et al., [1996,eng] 50-6086
- Hydrology of a polythermal glacier, Erikbreen, northern Spitsbergen. Vatne, G., et al., [1995,eng] 50-3150
- Hydrology of Bregger Glacier, Spitsbergen. Kodama, Y., et al., [1995,eng] 50-3249
- Hydrology of glaciers. Menzies, J., [1995,eng] 50-3586
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al., [1995,eng] 50-3123
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al., [1995,eng] 50-6046
- Iceberg sediment deposits in a Greenland glaciomarine setting. Syvitski, J.P.M., et al., [1996,eng] 50-5319
- Iceland glacier drainage and sandar formation. Heim, D., [1992,ger] 50-364
- Icy indicators of global warming. Denniston, D., [1993,eng] 50-3344
- Identification of elements of fluvio-glacial shapes characteristic of glacial outbursts. Robitaille, A., et al., [1995,fr] 50-5041
- Impact of glaciation on the groundwater regime of northwest Europe. Boulton, G.S., et al., [1996,eng] 50-5326
- Impact of subglacial geothermal activity on glacier meltwater quality. Lawler, D.M., et al., [1996,eng] 50-6087
- Implications of glacial hydrology and flow for subglacial drainage dynamics. Raymond, C.F., et al., [1995,eng] 50-451
- Impurities in surface meltwater from a Tien Shan glacier. Goto-Azuma, K., et al., [1995,eng] 50-613
- Integrated approach to modelling hydrology and water quality in glacierized catchments. Richards, K.S., et al., [1996,eng] 50-6083
- Interaction between subglacial sediment and meltwater. Collins, D.N., [1996,eng] 50-6265
- Interpretation of hydrochemical evidence for meltwater routing at a high arctic glacier. Hodgkins, R., et al., [1995,eng] 50-2432
- Isotopic and ionic variations in glacier river water during three contrasting ablation seasons. Theakstone, W.H., et al., [1996,eng] 50-6085
- Jökulhlaup from Katla in 1918. Tómasson, H., [1996,eng] 50-6268
- Lake Vostok beneath the antarctic ice sheet—a Russian research proposal. Kaminuma, K., [1995,jpn] 50-3498
- Late Wisconsinian outwash in southeastern British Columbia. Clague, J.J., [1975,eng] 50-4815
- Links between proglacial stream sediments and glacier motion. Willis, J.C., et al., [1996,eng] 50-6091
- Lumped-element model for subglacial transport of solute and suspended sediment. Clarke, G.K.C., [1996,eng] 50-6254
- Major, minor, and trace element chemistry of surface waters in the Everest region of Nepal. Reynolds, B., et al., [1995,eng] 50-2434
- Marine ecology of the Laguna San Rafael (southern Chile): ice scour and opportunism. Davenport, J., [1995,eng] 50-1105
- Marine record of the Russell Fjord outburst flood, Alaska. U.S.A. Cowan, E.A., et al., [1996,eng] 50-6260
- Mass balance and runoff data at Gulkana Glacier, Alaska, 1992. March, R.S., et al., [1996,eng] 50-4603
- Meltwater drainage patterns from alpine glaciers. Collins, D.N., [1995,eng] 50-2430
- Meltwater generation, infiltration and runoff from the Greenland ice sheet. Zou, J.H., [1993,eng] 50-699
- Microbiological activity in thermoglacial karst springs, South Spitsbergen. Lauritzen, S.E., et al., [1995,eng] 50-1403
- Modern glacial environments: processes, dynamics and sediments. Menzies, J., ed, [1995,eng] 50-3580
- Moraine formation from subglacial frozen sedimentation. Krüger, J., [1996,eng] 50-5830
- Nature of esker sedimentation. Banerjee, I., et al., [1975,eng] 50-4811
- Neoglaciation and vegetation change in British Columbia. Clague, J.J., et al., [1996,eng] 50-4332
- Numerical landscapes: static, kinematic and dynamic process-form relations. Richards, K., et al., [1995,eng] 50-4153
- Ocean bottom trenching by an Icelandic glacier. Björnsson, H., [1996,eng] 50-6252
- On favorable and unfavorable properties of continental climates for glaciation. Tronov, M.V., [1973,rus] 50-422
- On the glaciology of Edgeøya and Barentsøya, Svalbard. Dowdeswell, J.A., et al., [1995,eng] 50-4712
- Outflow from the glacial river of the Werenskiöld Glacier and from Fuglebekken. Leszkiewicz, J., et al., [1989,pol] 50-2921
- Possible consequences of glacially induced groundwater flow. Forsberg, C.F., [1996,eng] 50-5325
- Potentials for utilization of hydroelectric resources in Greenland. Taagholt, J., [1995,eng] 50-2963
- Precipitations and atmospheric circulation over western Greater Caucasus. But, I.V., et al., [1973,rus] 50-423
- Preliminary hydrological results from Sarennes glacier basin, French Alps. Barbet, D., et al., [1993,eng] 50-5690
- Preliminary results from research on proglacial outwash in Spitsbergen. Marciniak, K., et al., [1989,pol] 50-2915
- Proceedings. International Symposium on Biogeochemistry of Seasonally Snow-covered Catchments, Boulder, CO, July 1-14, 1995. [1995,eng] 50-2391
- Proceedings. International Symposium on Glacial Erosion and Sedimentation, Reykjavik, Iceland, Aug. 20-25, 1995. [1996,eng] 50-6232
- Proceedings. [1994,eng] 50-1531
- Proglacial fluvial and lacustrine environments. Church, M., et al., [1975,eng] 50-4808
- Reconstructed runoff from the high arctic basin Bayvelva based on mass-balance measurements. Hagen, J.O., et al., [1995,eng] 50-4013
- Regional-scale meltwater erosion and deposition patterns, northern Quebec, Canada. Brennand, T.A., et al., [1996,eng] 50-6244
- Relevance of glacial bed debris to glacial mechanics. Gow, A.J., et al., [1996,eng] 50-6251
- Research into the Hansbreen, a tidewater glacier in Spitsbergen. Glazovski, A.F., et al., [1992,eng] 50-3438
- Role of sediment transport in the mechanics of jökulhlaups. Fowler, A.C., et al., [1996,eng] 50-6269
- Runoff modeling of a debris-covered glacier in Nepal. Rana, B., et al., [1996,eng] 50-5509
- Sampling-rate effects on the properties of dye breakthrough curves from glaciers. Nienow, P.W., et al., [1996,eng] 50-4903
- Seasonal variations in arctic glacier sediment transport. Hodgkins, R., [1996,eng] 50-6253
- Seasonal variations of stream water chemistry in Spitsbergen. Potschin, M., et al., [1994,ger] 50-1587
- Sediment discharge from an Alaskan surging glacier. Merrand, Y., et al., [1996,eng] 50-6266
- Sediment transport and discharge in a high arctic catchment (Liefdefjorden, NW Spitsbergen). Barsch, D., et al., [1994,eng] 50-1545
- Sediment transport in glacial meltwater streams. Østrem, G., [1975,eng] 50-4809
- Sedimentary and hydrologic processes within modern terrestrial valley glaciers. Lawson, D.E., [1995,eng] 50-3591
- Sedimentation and physical limnology in proglacial Malaspina Lake, southeastern Alaska. Gustavson, T.C., [1975,eng] 50-4817
- Sedimentology and geomorphology of fjords. Syvitski, J.P.M., et al., [1995,eng] 50-1116
- Sediments and landforms of modern proglacial terrestrial environments. Maizels, J., [1995,eng] 50-3592
- Simulation of runoff processes of a continental mountain glacier in the Tien Shan, China. Kang, E.S., et al., [1995,eng] 50-2439
- Snow cover distribution on a Wyoming glacier. Elder, K., [1995,eng] 50-2438
- Stability of water flow in glaciers. Szilder, K., et al., [1996,eng] 50-6436
- Stable isotopes as hydrologic tracers in South Cascade Glacier. Vaughn, B.H., [1994,eng] 50-5546
- Statistical evaluation of glacier boreholes as indicators of basal drainage systems. Smart, C.C., [1996,eng] 50-6089
- Subglacial chemical erosion in a Swiss mountain glacier. Brown, G.H., et al., [1996,eng] 50-6236
- Subglacial hydrology of a Swiss glacier. Hubbard, B.P., et al., [1995,eng] 50-1878
- Subglacial ice accretion in an Alaskan glacier. Strasser, J.C., et al., [1996,eng] 50-6250
- Subglacial lake burst variations in Iceland. Gudmundsson, M.T., et al., [1995,eng] 50-449
- Subglacial meltwater composition sampled through boreholes. Lamb, H.R., et al., [1995,eng] 50-2433
- Subpermafrost groundwater, western Svalbard. Haldorsen, S., et al., [1994,eng] 50-5697
- Supraglacial sediment accretion in Icelandic glaciers. Näslund, J.O., et al., [1996,eng] 50-4904
- Suspended sediment weathering in alpine glacial meltwater. Brown, G.H., et al., [1996,eng] 50-6088
- Thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. Björnsson, H., et al., [1996,eng] 50-4888
- Tien Shan: trends of changes in the geocryological conditions. Gorbunov, A.P., et al., [1996,rus] 50-6841
- Towards a hydrological model for computerized ice-sheet simulations. Alley, R.B., [1996,eng] 50-6092
- Tracer experiments to determine subglacial pressurized flow in Storglaciären. Kohler, J., [1995,eng] 50-445
- Tracer study of glacial drainage variations in Switzerland. Nienow, P., et al., [1996,eng] 50-5580
- Transit time of meltwaters in alpine glaciers. Collins, D.N., [1995,eng] 50-2429
- Tunnel valley genesis. Cofaigh, C.O., [1996,eng] 50-5012
- Use of sulfur-35 and tritium to study runoff from an alpine glacier, Wind River Range, Wyoming. Michel, R.L., et al., [1995,eng] 50-2437
- Vertical motion and ice thickness variation in western North America. Trupin, A.S., et al., [1996,eng] 50-3068
- Water balance in the Patagonia icefield. Escobar, F., et al., [1992,eng] 50-382
- Water pressure and basal sliding on Storglaciären, northern Sweden. Jansson, P., [1995,eng] 50-446
- Water, ice, and meteorological measurements, South Cascade Glacier, 1994. Krimmel, R.M., [1995,eng] 50-53
- Winter outflows of waters from the Werenskiöld Glacier in the hydrological year 1985/1986. Krawczyk, W.E., et al., [1993,eng] 50-2207
- See [also]: Subglacial drainage
- Glacial lakes**
- 1994 Luggé Tsho glacial lake outburst flood, Bhutan Himalaya. Watanabe, T., et al., [1996,eng] 50-4236
- Baltic Ice Lake. Brunnberg, L., [1995,eng] 50-513
- Carbonate minerals in glacial sediments: geochemical clues to palaeoenvironment. Fairchild, I.J., et al., [1990,eng] 50-925

Glacial meteorology

Glacial till

- Catastrophic drainage from ice-dammed glacial Lake Assiniboine. Wolfe, B., et al. [1995,eng] 50-4881
- Climate change in the recent evolution of a pro-glacial lake. Webster, J., et al. [1996,eng] 50-3704
- Comment and reply on paper by Baterson et al. Brookes, I.A., et al. [1995,eng] 50-1083
- Danger of lake burst flooding from a Himalayan glacial lake. Watanabe, T., et al. [1995,eng] 50-3338
- Depositional sequences in glaciolacustrine deltas. Gustavson, T.C., et al. [1975,eng] 50-4818
- Evidence of Pleistocene drainage of a Scandinavian ice lake. Bergsten, H., et al. [1992,eng] 50-2555
- Exceptional storm and its effects in the Canadian High Arctic. Cogley, J.G., et al. [1976,eng] 50-3679
- Floods resulting from glacial lake outbursts. Yrqiand River basin. Xinjiang, China. Li, J., et al. [1994,eng] 50-1535
- Glacioclival and glaciolacustrine sedimentation. Jopling, A.V., et al. [1975,eng] 50-4806
- Glaciolacustrine environments. Ashley, G.M., [1995,eng] 50-3593
- History and drainage of large ice-dammed lakes along the Laurentide ice sheet. Teller, J.T., [1995,eng] 50-503
- Hudson Bay-Hudson Strait jokulhlaups and Heinrich events: a hypothesis. Johnson, R.G., et al. [1995,eng] 50-354
- Hydrology of glaciers. Menzies, J., [1995,eng] 50-3586
- Iceberg furrows as paleowind indicators in Lake Ojibway. Veillette, J.J., et al. [1996,eng] 50-2498
- Identification of elements of fluvio-glacial shapes characteristic of glacial outbursts. Robitaille, A., et al. [1995,eng] 50-5041
- Lake Vostok beneath the antarctic ice sheet—a Russian research proposal. Kaminuma, K., [1995,jpn] 50-3498
- Late glacial sedimentation and history of the Lake Nipigon Basin, Ontario. Lemoine, R.M., et al. [1995,eng] 50-4880
- Late Quaternary climatic fluctuations of the Venezuelan Andes. Yureuch, R., ed. [1991,eng] 50-5643
- Marine record of the Russell Fjord outburst flood, Alaska. U.S.A. Cowan, E.A., et al. [1996,eng] 50-6260
- Mechanism of the development of the Pomeranian Phase marginal zone in the Lake Drawa district. Kys, P., [1990,pol] 50-5004
- Neoglaciation and vegetation change in British Columbia. Clague, J.J., et al. [1996,eng] 50-4332
- Ocean bottom trenching by an Icelandic glacier. Björnsson, H., [1996,eng] 50-6252
- Pleistocene geomorphology of Qinghai Lake, China. Nakao, K., et al. [1995,eng] 50-6717
- Pleistocene glacial lake sedimentology. Scotland. Benn, D.I., [1996,eng] 50-5827
- Pleistocene-Holocene transition in Sweden. Lord, A.R., [1990,eng] 50-931
- Potentials for utilization of hydroelectric resources in Greenland. Taagholt, J., [1995,eng] 50-2963
- Proglacial fluvial and lacustrine environments. Church, M., et al. [1975,eng] 50-4808
- Rhythmic sedimentation in Glacial Lake Hitchcock, Massachusetts-Connecticut. Ashley, G.M., [1975,eng] 50-4820
- Sedimentary environments associated with glacial Lake Tringham, Norfolk, UK. Hart, J.K., [1992,eng] 50-2554
- Sedimentary successions in Pleistocene ice-marginal lakes. Shaw, J., [1975,eng] 50-4819
- Sedimentation and physical limnology in proglacial Malaspina Lake, southeastern Alaska. Gustavson, T.C., [1975,eng] 50-4817
- Sedimentation in glacier-fed Peyto Lake. Chikita, K., [1992,eng] 50-6642
- Sedimentology of the Brampton esker in Ontario. Saunderson, H.C., [1975,eng] 50-4812
- Sequence analysis of Canadian glaciolacustrine deposits. Martini, I.P., et al. [1995,eng] 50-1084
- Skógar Tephra, a Younger Dryas marker in North Iceland. Nordahl, H., et al. [1992,eng] 50-2548
- Stability of water flow in glaciers. Szilder, K., et al. [1996,eng] 50-6436
- Subglacial lake burst variations in Iceland. Gudmundsson, M.T., et al. [1995,eng] 50-449
- Survey of calving causing flood waves at the Grubengletscher. Haeblerli, W., [1975,ger] 50-3952
- Younger Dryas end moraines in Finland and NW Russia. Rainio, H., et al. [1995,eng] 50-514
- Zooplankton communities of lakes in Glacier Bay National Park. Olson, O.G., et al. [1995,eng] 50-3751
- Glacial meteorology**
- Ablation of debris-covered ice at Burroughs Glacier. Syverson, K.M., et al. [1995,eng] 50-3739
- Annual air-temperature measurement and ablation estimate at Moreno Glacier, Patagonia. Takeuchi, Y., et al. [1996,eng] 50-5512
- Characteristics of dynamics and ablation of glaciers in Patagonia. Naruse, R., [1995,jpn] 50-1173
- Climate and ice-snow cover. Peng, G.B., et al. [1992,chi] 50-1168
- Climatic change and the retreat of glaciers. Bonacina, L.C.W., et al. [1947,eng] 50-5788
- Climatic controls on glacier mass balance in Glacier Bay. Hunter, L.E., et al. [1995,eng] 50-3737
- Climatological interpretation of a firn pollen profile. Ambach, W., et al. [1967,ger] 50-5746
- Cold climate hydrometeorology. Upadhyay, D.S., [1995,eng] 50-5508
- Contributions of snow and fog to Greenland ice sheet ionic variations. Bergin, M.H., et al. [1995,eng] 50-586
- Dynamics of rock glaciers: data from Tröllaskagi, north Iceland. Whalley, W.B., et al. [1995,eng] 50-4833
- Establishment of the GEN Automatic Weather Station (AWS) in Khumbu region, Nepal Himalayas. Ueno, K., et al. [1996,eng] 50-5511
- Evolution conditions of recent glacier in Mount Xixia Bangma region. Xie, Z.C., et al. [1982,chi] 50-6596
- Glacial fluctuations in New Zealand determined from snowline. Chinn, T.J.H., [1995,eng] 50-79
- Glaciers in the high Arctic and recent environmental change. Dowdeswell, J.A., [1995,eng] 50-5236
- Glacio-meteorological and isotopic studies along the EGIG line, central Greenland. Fischer, H., et al. [1995,eng] 50-1873
- Greenland ice core records and rapid climate change. Dowdeswell, J.A., et al. [1995,eng] 50-5239
- Greenland ice sheet in response to various climate scenarios. Calov, R., et al. [1996,eng] 50-6435
- Grounding line and mass balance effects on glacier stability. Hunter, L.E., [1994,eng] 50-694
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995,eng] 50-3123
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995,eng] 50-6046
- Isotopic analysis of snow on Asian glacier surfaces. Aizen, V.B., et al. [1996,eng] 50-5256
- Japanese glaciological environmental studies in the arctic cryosphere. Watanabe, O., [1995,jpn] 50-3507
- Large scale motion and temperature distributions in land based ice shields—a review. Hunter, K., et al. [1996,eng] 50-6430
- Mass balance and runoff data at Gulkana Glacier, Alaska, 1992. March, R.S., et al. [1996,eng] 50-4603
- Mass balance of Kangwura (flat-top) Glacier on the north side of Mt. Xixiabangma, China. Liu, S.Y., et al. [1996,eng] 50-5514
- Meltwater generation, infiltration and runoff from the Greenland ice sheet. Zou, J.H., [1993,eng] 50-699
- Mineral dust record in a high altitude alpine glacier (Colle Gnifetti, Swiss Alps). Wagenbach, D., et al. [1989,eng] 50-5411
- Polythermal model of the antarctic ice sheet. Hansen, I., et al. [1996,eng] 50-6434
- Qinghai-Xizang Plateau during the maximum glaciation. Shi, Y.F., et al. [1995,chi] 50-5616
- Radiation conditions on the Greenland ice sheet. Konzelmann, T., [1994,eng] 50-69
- Radiative fluxes and their impact on the energy balance of the Greenland ice sheet. Konzelmann, T., et al. [1995,eng] 50-1871
- Radiometric data and modeled snowpack conditions for Dye 2, Greenland. Moxe, T.L., et al. [1996,eng] 50-4961
- Rapid calculation of direct radiation on sloping fields. Wang, J., et al. [1995,chi] 50-5629
- Recent climate changes in southern Patagonia. Ibarzabal y Donangelo, T., et al. [1996,eng] 50-5513
- Recent glacier fluctuations in inland Asia. Ageta, Y., [1995,jpn] 50-998
- Recent glacier fluctuations in the Himalaya and Karakorum. Yamada, T., et al. [1995,jpn] 50-1174
- Recent oscillations of the San Quintin and San Rafael glaciers, Patagonian Chile. Winchester, V., et al. [1996,eng] 50-5579
- Report on the 30th Soviet Antarctic Expedition. Sovetskaya antarkicheskaya ekspeditsiya, [1992,rus] 50-144
- Scientific plan for a regional research programme in the Arctic on global change. International Arctic Science Committee (IASC), Oslo, Norway, [1994,eng] 50-1508
- Simulation of summer snowmelt on the Greenland ice sheet using a one-dimensional model. Rowe, C.M., et al. [1995,eng] 50-585
- Snow cover and ice formation on the northern slope of Mount Xixia Bangma. Xie, Z.C., [1982,chi] 50-6597
- Snow cover distribution on a Wyoming glacier. Elder, K., [1995,eng] 50-2438
- Statistical analysis of precipitation and air temperature in the southern Patagonia icefield. Peña, H., et al. [1992,eng] 50-381
- Subglacial sediment deformation and rapid changes in the Laurentide Ice Sheet. Jensen, J.W., et al. [1996,eng] 50-5915
- Synoptic climatology of ablation on a New Zealand glacier. Hay, J.E., et al. [1988,eng] 50-2448
- Thickness and ablation measurements of Fremont Glacier, Wyoming. Naftz, D.L., et al. [1993,eng] 50-4796
- Turbulent transfer over an antarctic ice shelf. Vinje, T.E., [1969,eng] 50-3953
- Water balance in the Patagonia icefield. Escobar, F., et al. [1992,eng] 50-382
- Water, ice, and meteorological measurements, South Cascade Glacier, 1994. Krimmel, R.M., [1995,eng] 50-53
- Glacial periods**
- See [also]: ice age theory; Paleoclimatology; Pleistocene
- Glacial rivers**
- Comparison of subglacial and extra-glacial weathering. Axtmann, E.V., et al. [1995,eng] 50-2436
- Degradation of glaciation and runoff fluctuations in the upper Naryn River. Diurgerov, M.B., et al. [1994,rus] 50-3488
- Dynamics of the processes of mechanical and chemical denudation in the Bellsund region. Bartoszewski, S., et al. [1989,pol] 50-2883
- Fabric and structure in glacioclival gravels. Rust, B.R., [1975,eng] 50-4816
- Glacial-hydrological studies of the Syr Darya basin. Kamalov, B.A., [1973,rus] 50-426
- Glacier resources in the Karakorum-Kunlun Mts. and their utilization. Su, Z., [1992,chi] 50-1489
- Glacier river water study in Austre Okstindbreen Basin. Theakstone, W.H., et al. [1994,eng] 50-5700
- Glacier runoff in the Sarydzhas River basin. Kononov, V.G., et al. [1991,rus] 50-16
- International gaging station established on the Alsek River. Deschu, N., et al. [1995,eng] 50-3752
- Isotopic and ionic variations in glacier river water during three contrasting ablation seasons. Theakstone, W.H., et al. [1996,eng] 50-6085
- Late Wisconsinan outwash in southeastern British Columbia. Clague, J.J., [1975,eng] 50-4815
- Outflow from the glacial river of the Werenskiöld Glacier and from Fuglebekken. Leszkiewicz, J., et al. [1989,pol] 50-2921
- Preliminary hydrological results from Sarennes glacier basin. French Alps. Barbet, D., et al. [1993,eng] 50-5690
- Preliminary results from research on proglacial outwash in Spitsbergen. Marciniak, K., et al. [1989,pol] 50-2915
- Proglacial fluvial and lacustrine environments. Church, M., et al. [1975,eng] 50-4808
- Recent fluvial sediment budgets in glacial and periglacial environments, NW Spitsbergen. Barsch, D., et al. [1994,eng] 50-1584
- Representative glacier basins of the Bol'shaya Khadata River in 1969/70. Gus'kov, A.S., [1972,rus] 50-551
- Research on the concentration of suspended matter in the rivers of Kaffiory (NW Spitsbergen). Pietrucieci, C., et al. [1989,pol] 50-2917
- River flow of organic matter and biogenic elements to the Aral Sea. Smirnov, M.P., [1991,rus] 50-732
- Role of glaciers in river runoff in Central Asia. Kemmerich, A.O., [1972,rus] 50-523
- Sediment discharge from an Alaskan surging glacier. Merrand, Y., et al. [1996,eng] 50-6266
- Sediment transport in glacial meltwater streams. Østrem, G., [1975,eng] 50-4809
- Tien Shan: trends of changes in the geocryological conditions. Gorbunov, A.P., et al. [1996,rus] 50-6841
- Transport dynamics of material carried in the Waldemar River in Spitsbergen during the 1985 summer season. Pietrucieci, C., et al. [1989,pol] 50-2916
- Winter outflows of waters from the Werenskiöld Glacier in the hydrological year 1985/1986. Krawczyk, W.E., et al. [1993,eng] 50-2207
- Glacial till**
- Biofluffing—enhancing biological remediation of near-surface spills by augering. Stehmer, L., et al. [1996,eng] 50-5567
- Catastrophic mass movements in the mountains around the Qinghai-Xizang Plateau. Fort, M., et al. [1995,eng] 50-4835
- Changes in the lithology and pedology of tills from the Warta Glaciation in the Bełchatów mine. Baranicka, M.D., et al. [1993,pol] 50-3653
- Debris transfer and sedimentary environments: alpine glaciated areas. Johnson, P.G., [1995,eng] 50-4828
- Depositional sequence of the Quaternary period in Xinjiang. Peng, X.L., [1985,chi] 50-2005
- Deposits from the Warta Glaciation against a background of Pleistocene deposits. Lisicki, S., [1993,pol] 50-3663
- Dynamics of the last glaciation in eastern Svalbard. Salvigsen, O., et al. [1995,eng] 50-4714
- Early Holocene moraine bank sedimentology of East Greenland. Huddart, D., et al. [1990,eng] 50-929
- Glacial crushing, weathering and diagenetic histories of quartz grains. Mahaney, W.C., [1995,eng] 50-3595
- Glacial drift and the glacial epoch in the Quaternary period of Xinjiang. Peng, X.L., [1985,chi] 50-2000
- Glacial dynamics, material transfer and sedimentation in Spitsbergen. Solild, J.L., et al. [1994,eng] 50-1585
- Glacial processes, sediments, landforms, and stratigraphy at Myrdalsjökull. Krüger, J., [1994,eng] 50-166
- Glacial terrestrial deposition. Whiteman, C.A., [1995,eng] 50-3589
- Glacier process studies at Burroughs Glacier. Mickelson, D.M., et al. [1995,eng] 50-3738
- Glaciated structures and their morphological expression in the Warta Glaciation zone. Klatkova, H., [1993,pol] 50-3659
- Great Qinghai-Xizang ice sheet. Han, T.L., [1991,chi] 50-2176
- Ground probing radar investigation of permafrost in northern Quebec. Pilon, J.A., et al. [1992,eng] 50-65
- Inquiry on ice ages in Mount Xixia Bangma region. Shi, Y.F., et al. [1982,chi] 50-6605
- Late Quaternary glacial and environmental history of Kongsøya, Svalbard. Ingolfsson, Ö., et al. [1995,eng] 50-4713
- Late Quaternary sediments of the Qinghai-Xizang Plateau. Frenzel, B., et al. [1994,ger] 50-4779
- Late Quaternary subaqueous outwash deposits near Ottawa, Canada. Rust, B.R., et al. [1975,eng] 50-4813
- Late Weichselian to early Holocene sedimentation in eastern Svalbard. Möller, P., et al. [1995,eng] 50-4716
- Late Wisconsinan outwash in southeastern British Columbia. Clague, J.J., [1975,eng] 50-4815
- Micromorphology of basal till, Burroughs Glacier, Alaska. Ham, N.R., et al. [1995,eng] 50-3741
- Nature of esker sedimentation. Banerjee, I., et al. [1975,eng] 50-4811

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- Nitrogen fixers in early primary succession at Glacier Bay. Kohls, S.J., et al. [1995.eng] 50-3747
- Particle interaction in fjord suspended sediment. Syvitski, J.P.M., et al. [1981.eng] 50-3764
- Pedogenic processes and evolution of the soils on moraines in alpine periglacial environments. Liu, G.N., et al. [1995.chi] 50-5631
- Precambrian glacioclastic sedimentation in East Greenland. Moncrieff, A.C.M., et al. [1990.eng] 50-935
- Problems in paleogeography and stratigraphy of the cold Warta stage in Poland. Klatkova, H., ed. [1993.pol] 50-3651
- Quaternary geology and the last two glaciations in Alberta. Jackson, L.E., Jr., [1994.eng] 50-86
- Results of TL datings of Warta Glaciation deposits in the northern Silesian Lowlands. Olszak, J.J., et al. [1993.pol] 50-3665
- Sediment yields, lithofacies and mudrock in glacioclastic environments. Cai, J.K., [1994.eng] 50-695
- Sequence of glacial ice flows in Abitibi-Timiskaming. Veillette, J.J., et al. [1996.eng] 50-2499
- Significance of the analysis of dominant boulders and the orientation of long axes of pebbles in moraines. Raukas, A.V., [1972.rus] 50-544
- Soil development on a glacier foreland, Kerguelen Is. Frenot, Y., et al. [1995.eng] 50-71
- Some features of the Warta glacioclastic deposits in central Poland. Klatkova, H., [1993.pol] 50-3658
- Stratigraphic setting and paleogeography of the Warta Glaciation in northeastern Poland. Krupinski, K.M., et al. [1993.pol] 50-3661
- Study on Quaternary moraine debris of Mount Xixia Bangma region. Zhang, S.Y., [1982.chi] 50-6603
- Study on the sequences of the Quaternary glaciations in the Bayan Har Mountains. Zhou, S.Z., [1995.chi] 50-5633
- Suction measurements on compacted till specimens. Fredlund, D.G., et al. [1995.eng] 50-1154
- Glaciation**
- 100 years of glacial theory and Quaternary topography of today. Gellert, J.F., [1990.ger] 50-1781
- 12,000 year radiocarbon date of deglaciation from the continental divide of northwestern Montana. Carrara, P.E., [1995.eng] 50-3299
- Analysis of morphological characteristics of regions of glaciation. Vinogradov, O.N., et al. [1972.rus] 50-547
- Cenozoic Northern Hemisphere glaciations. Thiede, J., et al. [1995.eng] 50-5240
- Changes in climate and ice distribution in the Northern Hemisphere since the maximum of the last glaciation. Chizhov, O.P., [1972.rus] 50-541
- Changes in permafrost conditions. Vaikmäe, R., et al. [1995.eng] 50-506
- Characteristics of applied geomorphological studies in regions with Pleistocene ice sheets. Spiridonov, A.I., [1995.rus] 50-3772
- Common features of the Upper Quaternary and historical glaciation in the Caucasus and Tien Shan. Gerasimov, V.A., [1972.rus] 50-543
- Contribution to the geomorphological problem of strandflats. Tietze, W., [1962.ger] 50-5743
- Contributions to the glacial history of Liefdefjord/NW Spitsbergen. Furrer, G., [1994.ger] 50-1579
- Correlation of glacial episodes in Poland and Scandinavia. Lindner, L., et al. [1995.eng] 50-2611
- Current and ancient glaciation in the Chveshuri River basin (central range of the Caucasus). Gobedzhishvili, R.G., [1972.rus] 50-531
- Current status and prospects of ice age research. Liedtke, H., [1990.ger] 50-1783
- Decrease in the equilibrium line of glaciers in the European Arctic during the Pleistocene. Groval'd, M.G., et al. [1972.rus] 50-540
- Deglaciation of the western part of Nordenskiöld Land (Spitsbergen). Kapala, J.B., [1989.pol] 50-2892
- Demarcation and paleotemperatures of the last glaciation in northern China. Sun, J.Z., et al. [1989.chi] 50-1358
- Diamond exploration in glaciated terrain: a Russian perspective. Golubev, I.U.K., [1995.eng] 50-1092
- Discussion on the Quaternary glaciations in the Karakorum-West Kunlun Mountains. Li, B.Y., et al. [1994.eng] 50-1534
- Distribution of ice age sediments in northern Germany. Ehlers, J., [1990.ger] 50-1788
- Division and duration of ice age dating from global comparisons. Brunacker, K., [1990.ger] 50-1784
- Driving stress, hydraulic head and landform genesis at the southeastern Burroughs Glacier. Gaffield, S.G., et al. [1995.eng] 50-3740
- Dynamics of the last glaciation in eastern Svalbard. Salvigsen, O., et al. [1995.eng] 50-4714
- Early Holocene moraine bank sedimentology of East Greenland. Huddart, D., et al. [1990.eng] 50-929
- Early studies on stratified drift. Jopling, A.V., [1975.eng] 50-4807
- Erosion of the Laurentide region of North America by glacial and glaciofluvial processes. Bell, M., et al. [1990.eng] 50-1789
- Evolution and age of shorelines along Woodford, northern Spitsbergen. Brückner, H., et al. [1994.eng] 50-1582
- Four Scandinavian glaciations in the Vistula Gap of the South Polish Uplands. Pozaryski, W., et al. [1995.eng] 50-2612
- Geometry and genesis of the glaciogenic sediments in the southern Barents Sea. Vorren, T.O., et al. [1990.eng] 50-928
- Geomorphology and dynamics of the Laurentide Ice Sheet in Wisconsin. Ham, N.R., [1994.eng] 50-693
- Geoscientific Spitsbergen Expedition 1990-1992. Blümel, W.D., ed. [1994.ger] 50-1574
- Glacial environments. Menzies, J., [1995.eng] 50-3581
- Glacial geology: how ice shapes the land. Erickson, J., [1996.eng] 50-3555
- Glacial geomorphic features in the northern Barents Sea. Solheim, A., et al. [1990.eng] 50-927
- Glacial isostatic uplift of Tibet as a consequence of a former ice sheet. Kuhle, M., [1995.eng] 50-6064
- Glacial processes, sediments, landforms, and stratigraphy at Myrdalsjøkulen. Krüger, J., [1994.eng] 50-166
- Glacially-influenced sedimentation on the Hebridean slope. Stoker, M.S., [1990.eng] 50-933
- Glacially-influenced Yakataga Formation on Middleton I. Eyles, C.H., et al. [1990.eng] 50-934
- Glaciation of the Upper Koksa River in the mid-19th century. Glazyrin, G.E., et al. [1991.rus] 50-14
- Glaciation onset related to Canadian tundra. Gallimore, R.G., et al. [1996.eng] 50-5212
- Glacier fluctuations and sediment yields in Glacier Bay. Cai, J.K., et al. [1995.eng] 50-3733
- Glacier process studies at Burroughs Glacier. Mickelson, D.M., et al. [1995.eng] 50-3738
- Glacier runoff in the Sarydzhar River basin. Kononov, V.G., et al. [1991.rus] 50-16
- Glaciers and ice sheets. Menzies, J., [1995.eng] 50-3584
- Glacioclastic deposits in southwestern Sweden. Stevens, R.L., [1990.eng] 50-930
- Glacioclastic sediments from the Celtic Sea. Scourse, J.D., et al. [1990.eng] 50-932
- Glaciological zoning of the Earth. Tushinskiĭ, G.K., et al. [1973.rus] 50-421
- Global glacial chronologies and causes of glaciation. Calkin, P.E., et al. [1995.eng] 50-3582
- Growth and decay of the Laurentide Ice Sheet and comparisons with Fennoscandia. Ives, J.D., et al. [1990.eng] 50-1787
- Gulf of Alaska paleoclimatological influence on marine ecology. Lagoe, M.B., et al. [1996.eng] 50-6625
- Heinrich events and western US glaciation. Clark, P.U., et al. [1995.eng] 50-558
- Ice age research. Liedtke, H., ed. [1990.ger] 50-1780
- Ice age significance of Rhine terraces. Boenigk, W., [1990.ger] 50-1786
- Ice sheet modeling and reconstruction. Hughes, T.J., [1995.eng] 50-3583
- Iceberg furrows as paleowind indicators in Lake Ojibway. Veillette, J.J., et al. [1996.eng] 50-2498
- Impact of glaciation on the groundwater regime of northwest Europe. Boulton, G.S., et al. [1996.eng] 50-5326
- Implication of glacial dispersal patterns for mineral exploration. McClenaghan, M.B., et al. [1996.eng] 50-6515
- Increasing CO₂ decreasing insolation, and initiation of ice sheets. Chu, S.P., [1994.eng] 50-671
- Influence of a finite glaciation phase on predictions of post-glacial isostatic adjustment. Mitrovica, J.X., et al. [1995.eng] 50-2723
- Influence of glaciation on the basin temperature regime. Johansen, H., et al. [1996.eng] 50-5328
- Inverse relation between ice extent and the late Paleozoic glacial record of Gondwana. González-Bonorino, G., et al. [1995.eng] 50-1807
- Is there any real evidence for a huge shelf ice sheet in East Siberia? Sher, A., [1995.eng] 50-499
- Karakorum ice cover variations during the last glaciation. Kuhle, M., [1994.eng] 50-1533
- Last glaciation in central Magellan Strait, southernmost Chile. Clapperton, C.M., et al. [1995.eng] 50-964
- Last Scottish ice-sheet: facts and speculative discussion. Sissons, J.B., [1981.eng] 50-3620
- Late Cenozoic history of the Scandinavian and Barents Sea ice sheets. Mangerud, J., et al. [1996.eng] 50-5305
- Late Cenozoic tectonics and the dynamics of the west antarctic ice sheet. Behrendt, J.C., et al. [1994.eng] 50-1884
- Late glacial raised beaches and glacier recession in northeast Iceland. Nordahl, H., et al. [1993.eng] 50-4772
- Late Holocene glacier fluctuations in western Norway. Nesje, A., et al. [1991.eng] 50-3302
- Late Quaternary glacial and environmental history of Kongsoya, Svalbard. Ingolfsson, O., et al. [1995.eng] 50-4713
- Late Quaternary glacial history and landscape development in Spitsbergen. Blümel, W.D., et al. [1994.ger] 50-1578
- Late Quaternary stratigraphy and glaciology in the Thule area, Northwest Greenland. Funder, S., ed. [1990.eng] 50-5169
- Late Weichselian deglaciation in the Murman offshore. Samoilovich, I.U.G., et al. [1993.eng] 50-2210
- Late Weichselian glacial maximum on Andøya, north Norway. Möller, J.J., et al. [1992.eng] 50-2546
- Late Weichselian to early Holocene sedimentation in eastern Svalbard. Möller, P., et al. [1995.eng] 50-4716
- Model of Northern Hemisphere glaciation. Dong, B.W., et al. [1995.eng] 50-1328
- Modern glacial environments: processes, dynamics and sediments. Menzies, J., ed. [1995.eng] 50-3580
- Modern glacioclastic environments. Powell, R.D., et al. [1995.eng] 50-3594
- Moraine bank facies in Ireland. McCabe, A.M., et al. [1995.eng] 50-921
- Moraine types from the last glaciation in the Qinghai-Xizang Plateau. Liu, S.J., et al. [1994.eng] 50-4782
- Morphological-paleogeographical features of the Warta Glaciation relief in the Rawka River lobe. Klajnert, Z., [1993.pol] 50-3657
- Morphometric characteristics of current glaciation in the mountains of Central Asia. Dolgushin, L.D., et al. [1972.rus] 50-528
- New data on current and ancient glaciation in the Sutar-Khayata Mountains. Vinogradov, O.N., et al. [1972.rus] 50-536
- Numerical reconstruction of a soft-bedded Laurentide Ice Sheet during the last glacial maximum. Clark, P.U., et al. [1996.eng] 50-6539
- Nunataks of the last ice sheet in northwest Scotland. McCarrall, D., et al. [1995.eng] 50-3366
- On ancient ice-sheet and ice age in the Tibetan Plateau. Xu, D.M., et al. [1995.chi] 50-5632
- On favorable and unfavorable properties of continental climates for glaciation. Tronov, M.V., [1973.rus] 50-422
- On the definition of stratigraphical division boundaries in the Quaternary for the Scandinavian glaciated areas. Mojski, J.E., [1995.eng] 50-2610
- Paleoclimate of the North Atlantic seaboard during the last glacial/interglacial transition. Lowe, J.J., et al. [1995.eng] 50-501
- Paleoglaciology's grand unsolved problem. Grosval'd, M.G., et al. [1995.eng] 50-453
- Paleoglaciology: subject and methods, tasks and achievements. Avsiuk, G.A., et al. [1972.rus] 50-537
- Paleomagnetic age constraints on New Zealand glacial deposits. Fitzsimons, S.J., et al. [1996.eng] 50-6576
- Paleomagnetism of a glaciogenic sequence, South Australia. Schmidt, P.W., et al. [1995.eng] 50-411
- Paraglacial coasts. Forbes, D.L., et al. [1994.eng] 50-493
- Past glaciation and sea levels on Bjørnøya, Svalbard. Salvigsen, O., et al. [1995.eng] 50-4720
- Permafrost in glaciofluvial sediments of the last glaciation. Habbe, K.A., [1993.eng] 50-1678
- Permafrost variation in Hokkaido since the last glacial maximum. Nakayama, T., [1995.jpn] 50-986
- Pleistocene geomorphology of Qinghai Lake, China. Nakao, K., et al. [1995.eng] 50-6717
- Pleistocene glacial history of the Svalbard area. Hebbeln, D., [1992.eng] 50-2558
- Pleistocene glaciation and the Earth's precession constant. Mitrovica, J.X., et al. [1995.eng] 50-517
- Pleistocene glaciation in northwestern British Columbia. Spooner, L.S., et al. [1995.eng] 50-4526
- Pleistocene glaciation of the German uplands as reflected in recent research. Rother, K., [1995.ger] 50-744
- Pleistocene glaciation of the Outer Hebrides, Scotland. Ballantyne, C.K., et al. [1995.eng] 50-6212
- Pleistocene mountain glacier fluctuation in Chile. Andersen, B.G., et al. [1995.eng] 50-516
- Pleistocene soil evolution in a Russian upland. Sycheva, S.A., [1995.eng] 50-2147
- Pleistocene-Holocene transition in Sweden. Lord, A.R., [1990.eng] 50-931
- Post-glacial mass flow and associated deposits in paleovalleys of Greenland. Collinson, J.D., et al. [1989.eng] 50-5168
- Postglacial sea-level history of Edgeøya and Barentsøya, eastern Svalbard. Bondevik, S., et al. [1995.eng] 50-4715
- Postglacial sedimentation in the Liefdefjord area, NW Spitsbergen. Baumhauer, R., et al. [1994.ger] 50-1581
- Pre-Illinoian glacial stratigraphy in north-central Missouri. Rovey, C.W., III, et al. [1996.eng] 50-4585
- Precambrian glacioclastic sedimentation in East Greenland. Moncrieff, A.C.M., et al. [1990.eng] 50-935
- Present and early Holocene foraminiferal distribution in eastern Svalbard. Hansen, A., et al. [1995.eng] 50-4718
- Primary division of Quaternary in Xinjiang. Yang, Z.X., et al. [1985.chi] 50-2004
- Primary succession and future vegetation patterns at Glacier Bay. Chapin, F.S., III, et al. [1995.eng] 50-3743
- Problematic ice sheets. Rutter, N.W., [1995.eng] 50-498
- Problems in paleogeography and stratigraphy of the cold Warta stage in Poland. Klatkova, H., ed. [1993.pol] 50-3651
- Proceedings. Glacier Bay Science Symposium, 3rd, Glacier Bay National Park and Preserve, Gustavus, AK, Sep. 15-18, 1993. [1995.eng] 50-3730
- Proceedings. [1994.eng] 50-1531
- Processes of glacioclastic. Van der Wateren, F.M., [1995.eng] 50-3590
- Profiles at Brus and Ruda (Lublin Polesie), and their significance for Mesopleistocene stratigraphy. Wojtanowicz, J., [1995.eng] 50-2615
- Progress in glaciology and Quaternary glaciation research in China since 1978. Shi, Y.F., et al. [1995.eng] 50-4510
- Qinghai-Xizang Plateau during the maximum glaciation. Shi, Y.F., et al. [1995.chi] 50-5616
- Qualitative successional models in Glacier Bay. Sharmar, L.C., et al. [1995.eng] 50-3753
- Quaternary geology and the last two glaciations in Alberta. Jackson, L.E., Jr., [1994.eng] 50-86
- Quaternary glaciation in the Karakoram and Himalayas. Derbyshire, E., [1996.eng] 50-5097
- Quaternary record of eastern Svalbard—an overview. Landvik, J.Y., et al. [1995.eng] 50-4711
- Quaternary sea level history in the Northwest Territories, Canada. Kerr, D.E., [1996.eng] 50-6553

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- Questions in the application of the actualism principle in glaciology. Tronov, M.V., [1972.rus] 50-538
- Radiochronometry of the ice sheet in the Upper Pleistocene. Serebrianniy, L.R., [1972.rus] 50-539
- Reconstruction of the late Palaeozoic ice sheet on southwestern Gondwana. Visser, J.N.J., [1993.eng] 50-6318
- Regional stratigraphy and lithology of the Carpathian loess deposits in Przemyśl environs. Lanczont, M., [1995.eng] 50-2614
- Relative sea level in the area of Matane (Québec) from deglaciation to present day. Dionne, J.C., et al., [1995.fre] 50-5036
- Research on the glaciation of the Larsemann Hills, East Antarctica. Li, S.K., [1995.chi] 50-3641
- Results of TL datings of Warta Glaciation deposits in the northern Silesian Lowlands. Olszak, I.J., et al., [1993.pol] 50-3665
- Revision of the lateglacial Swedish varve chronology. Strömberg, B., [1990.eng] 50-1791
- Rhythmic nature of the Pleistocene. Maksimov, E.V., [1972.rus] 50-542
- Role of North Atlantic margin uplift in Cenozoic glaciation. Eyles, N., [1996.eng] 50-3386
- Sea floor morphology and glacial history of the Barents Sea. Solheim, A., et al., [1988.eng] 50-887
- Sediments in the Liefdefjord and Woodfjord of Spitsbergen. Kroemer, E.A., et al., [1994.eng] 50-1580
- Sequence of glacial ice flows in Abitibi-Timiskaming. Veillette, J.J., et al., [1996.eng] 50-2499
- Significance of the analysis of dominant boulders and the orientation of long axes of pebbles in moraines. Raukas, A.V., [1972.rus] 50-544
- Simulation of Pleistocene glacial limits in Yunnan, China. Anyia, M., et al., [1991.eng] 50-3307
- Slope valleys in glacialine sediments of the Gulf of Alaska. Carlson, P.R., et al., [1990.eng] 50-922
- Some questions of the Pleistocene sedimentation of the Barents Sea shelf. Tarasov, G.A., [1993.eng] 50-2213
- Southwest Pacific paleogeography and development of the East Antarctic Ice Sheet. Flower, B.P., et al., [1995.eng] 50-2609
- Stratigraphic setting and paleogeography of the Warta Glaciation in northeastern Poland. Krupiński, K.M., et al., [1993.pol] 50-3661
- Stratigraphical position of kame deposits to the north of Bielski Podlaski. Mycielska-Dowgiałło, E., et al., [1995.eng] 50-2617
- Subglacial sediment deformation and rapid changes in the Laurentide Ice Sheet. Jenson, J.W., et al., [1996.eng] 50-5915
- Summary of Project IGCP-253. Lundqvist, J., et al., [1995.eng] 50-497
- Thermoluminescence dating of Alaskan Pleistocene tephra. Berger, G.W., et al., [1996.eng] 50-5188
- Veddan glaciations and their relation to the dispersal of Rodinia: paleomagnetic constraints. Torsvik, T.H., et al., [1995.eng] 50-663
- Warta Glaciation (stage) within the Widawka drainage basin and the Bełchatów mine. Baraniecka, M.D., [1993.pol] 50-3652
- Weichselian chronostratigraphy and correlations. Möner, N.A., [1981.eng] 50-3624
- Weichselian glaciation in Svalbard before 15,000 B.P. Salvigsen, O., et al., [1981.eng] 50-3623
- Younger Dryas ice-marginal deposits in Norway. Andersen, B.G., et al., [1995.eng] 50-511
- See [also]: Alpine glaciation
- Glacier ablation**
- Ablation of debris-covered ice at Burroughs Glacier. Syverson, K.M., et al., [1995.eng] 50-3739
- Annual air-temperature measurement and ablation estimate at Moreno Glacier, Patagonia. Takeuchi, Y., et al., [1996.eng] 50-5512
- Annual net balance of North Cascade glaciers, 1984-94. Pelto, M.S., [1996.eng] 50-4886
- Characteristics of dynamics and ablation of glaciers in Patagonia. Naruse, R., [1995.jpn] 50-1173
- Characteristics of the meteorological regime of glaciers in Upper Svanetia during ablation. Voloshina, A.P., et al., [1972.rus] 50-525
- Characteristics of tide-water calving at Glacier San Rafael, Chile. Warren, C.R., et al., [1995.eng] 50-450
- Climate change during the last deglaciation in Antarctica. Mayewski, P.A., et al., [1996.eng] 50-5067
- Climatic influences on Chinese water resources. Shi, Y.F., et al., [1995.eng] 50-4231
- Contemporary deglaciation of the Recherche and Renard Glaciers, Spitsbergen. Reder, J., [1993.eng] 50-2208
- Data on the mass balance of Bashkar glacier in the Caucasus. Korotun, I.N., [1973.rus] 50-430
- Deglaciation of the western part of Nordenskiöld Land (Spitsbergen). Kapala, J.B., [1989.pol] 50-2892
- Degradation of glaciation and runoff fluctuations in the upper Naryn River. Diurgerov, M.B., et al., [1994.rus] 50-3488
- Elementary circulation mechanisms and external mass and energy exchange on Svalbard glaciers. Markin, V.A., [1972.rus] 50-524
- Energy balance model for a small valley glacier, pt.1. Arnold, N.S., et al., [1996.eng] 50-4893
- Energy characteristics of a mountain-glacier basin (in the example of the Aktru basin). Belova, N.I., [1973.rus] 50-425
- Features of the regime and dynamics of the East Aksu glacier in the Kungey Alatau range. Fateev, V.P., et al., [1973.rus] 50-429

- Firn boundary as a high altitude ridge of the belt flow in mountain basins. Shcheglova, O.P., [1973.rus] 50-434
- Glacial landforms of Glen Geusachen. Bennett, M.R., et al., [1991.eng] 50-3034
- Glacier mass balance investigations in Sonnblick region, Austria. Böhm, R., et al., [1991.eng] 50-3519
- Ice pyramids and other ablation forms on Mount Xixia Bangma. Shi, Y.F., et al., [1982.chi] 50-6600
- Icy indicators of global warming. Denniston, D., [1993.eng] 50-3344
- INACH expedition to Patriot Hills, Nov.-Dec. 1995. Casassa, G., [1996.spa] 50-5802
- Landforms associated with Pleistocene glaciation in Ireland. Wilson, P., et al., [1995.eng] 50-5486
- Late-Holocene glaciation and twentieth-century retreat, northeastern Brooks Range, Alaska. Evison, L.H., et al., [1996.eng] 50-4371
- Lichens on Livingston and Robert Is. Valladares, F., et al., [1995.eng] 50-3779
- Mass balance of the Marukh Glacier for 1968-1970. Menshutin, V.M., [1972.rus] 50-527
- Meteorites as surface exposure markers of blue icefield stability. Benoit, P.H., et al., [1994.eng] 50-1886
- Morphometric characteristics of current glaciation in the mountains of Central Asia. Dolgushin, L.D., et al., [1972.rus] 50-528
- Potential ice ablation in the USSR. Khodakov, V.G., et al., [1972.rus] 50-522
- Precipitation, glacier flow and reduction of glacier areas in relation to climate forming factors. Baidal, M.Kh., [1973.rus] 50-431
- Preliminary results from research on proglacial outwash in Spitsbergen. Marciniak, K., et al., [1989.pol] 50-2915
- Present glaciation in the mountains of Central Asia. Konov-alova, G.I., [1972.rus] 50-556
- Recent oscillations of the San Quintin and San Rafael glaciers, Patagonian Chile. Winchester, V., et al., [1996.eng] 50-5579
- Reconstructed runoff from the high arctic basin Bayvelva based on mass-balance measurements. Hagen, J.O., et al., [1995.eng] 50-4013
- Relations between atmospheric circulation and glacier mass balance. McCabe, G.J., Jr., et al., [1995.eng] 50-3323
- Representative glacier basins of the Bol'shaya Khadata River in 1969/70. Gus'kov, A.S., [1972.rus] 50-551
- Research into the Hansbreen, a tidewater glacier in Spitsbergen. Glazovskii, A.F., et al., [1992.eng] 50-3438
- Rowe Glacier—annual research report 1993. Scott, R.B., [1994.eng] 50-5547
- Runoff modeling of a debris-covered glacier in Nepal. Rana, B., et al., [1996.eng] 50-5509
- Runoff of suspended sediments in the Dzhanakut Glacier basin in summer 1970. Diurgerov, M.B., et al., [1972.rus] 50-554
- Sandbanks in river beds in the foreground of Hørbve Glacier, Spitsbergen. Rachlewicz, G., [1989.pol] 50-2894
- Synoptic climatology of ablation on a New Zealand glacier. Hay, J.E., et al., [1988.eng] 50-2448
- Thermal regime of Holocene Greenland ice sheet moraine formation. Van Tatenhove, F.G.M., et al., [1996.eng] 50-5582
- Thickness and ablation measurements of Fremont Glacier, Wyoming. Nafiz, D.L., et al., [1993.eng] 50-4796
- Vegetation chronosequence near Exit Glacier, Kenai Fjords National Park, Alaska, U.S.A. Helm, D.J., et al., [1995.eng] 50-3325
- Glacier alimentation**
- Avanches and their role in nourishment of the Inyl'chek Glacier. Ziabkin, V.V., [1972.rus] 50-553
- Building a glaciological information system for a surging glacier. Garelik, I.S., et al., [1994.rus] 50-3489
- Climatological interpretation of a firn pollen profile. Ambach, W., et al., [1967.ger] 50-5746
- Decrease in the equilibrium line of glaciers in the European Arctic during the Pleistocene. Grosvald, M.G., et al., [1972.rus] 50-540
- Degradation of glaciation and runoff fluctuations in the upper Naryn River. Diurgerov, M.B., et al., [1994.rus] 50-3488
- Distribution, growth, and variation of glaciers in the Kunlun Mountains. Zhang, Z.S., et al., [1986.chi] 50-1989
- Dynamic response of high arctic glaciers to global warming and their contribution to sea-level rise. Lam, J.K.W., et al., [1995.eng] 50-6618
- Elementary circulation mechanisms and external mass and energy exchange on Svalbard glaciers. Markin, V.A., [1972.rus] 50-524
- Equilibrium zone on polar glaciers. Adams, W.P., et al., [1995.eng] 50-3126
- Evolution conditions of recent glacier in Mount Xixia Bangma region. Xie, Z.C., et al., [1982.chi] 50-6596
- Grounding line and mass balance effects on glacier stability. Hunter, L.E., [1994.eng] 50-694
- Mass balance of the Marukh Glacier for 1968-1970. Menshutin, V.M., [1972.rus] 50-527
- Morphometric characteristics of current glaciation in the mountains of Central Asia. Dolgushin, L.D., et al., [1972.rus] 50-528
- Precipitations and atmospheric circulation over western Greater Caucasus. But, I.V., et al., [1973.rus] 50-423
- Representative glacier basins of the Bol'shaya Khadata River in 1969/70. Gus'kov, A.S., [1972.rus] 50-551
- Snow cover and ice formation on the northern slope of Mount Xixia Bangma. Xie, Z.C., [1982.chi] 50-6597

- Snow stratigraphy and accumulation rate in the Lambert Glacier basin. Ren, J.W., et al., [1995.chi] 50-5640
- Glacier beds**
- Alaskan glacier basal ice deformation. Hart, J.K., [1995.eng] 50-1882
- Basal debris entrainment of Canadian arctic glaciers. Zdanowicz, C.M., et al., [1996.eng] 50-6247
- Basal ice facies and their formation in the western Alps. Hubbard, B., et al., [1995.eng] 50-2805
- Bedrock surface weathering on Finnish fjell summits. McCarroll, D., et al., [1996.eng] 50-5825
- Borehole video analysis of subglacial flow and structure. Harper, J.T., et al., [1995.eng] 50-1100
- Case for cold-base continental ice sheets—a transient thermal model. Heine, J.T., et al., [1996.eng] 50-4890
- Cavities and the effective pressure between abrading clasts and bedrock. Hindmarsh, R.C.A., [1996.eng] 50-6237
- Characteristics of basal ice at Engabreen, northern Norway. Jansson, P., et al., [1996.eng] 50-6248
- Deforming bed conditions on the Dänischer Wohld Peninsula, northern Germany. Hart, J.K., et al., [1996.eng] 50-6536
- Driving stress, hydraulic head and landform genesis at the southeastern Burroughs Glacier. Gaffield, S.G., et al., [1995.eng] 50-3740
- Dynamics of ice flow. Menzies, J., [1995.eng] 50-3585
- Fabric signature of subglacial till deformation. Breidamerkurjökull, Iceland. Benn, D.I., [1995.eng] 50-3863
- Flux of debris transported by ice at three Alaskan tidewater glaciers. Hunter, L.E., et al., [1996.eng] 50-4897
- Glacial erosion as a consequence of subglacial sediment deformation. Boulton, G.S., [1996.eng] 50-4891
- Glaciectonic process at Svalbard. Hambrey, M.J., et al., [1995.eng] 50-6559
- Ground-line sedimentation at the Mackay Glacier Tongue. Dawber, M., et al., [1994.eng] 50-1897
- Groundwater flow beneath ice sheets: part I—large scale patterns. Boulton, G.S., et al., [1995.eng] 50-2128
- Helicopter-borne alpine glacier surveys using short pulse radar. Arcone, S.A., et al., [1992.eng] 50-55
- Hydrology of a polythermal glacier, Erikbreen, northern Spitsbergen. Vatne, G., et al., [1995.eng] 50-3150
- Hydrology of glaciers. Menzies, J., [1995.eng] 50-3586
- Impact of subglacial groundwater flow on moraine formation. Boulton, G.S., et al., [1995.eng] 50-2129
- Internal and basal ice changes near the grounding line derived from radio-echo sounding. Uratsuka, S., et al., [1996.eng] 50-4895
- Interpretation of subglacially-deformed materials. Benn, D.I., et al., [1996.eng] 50-5583
- Is erosion by deforming subglacial sediments significant? (Toward till continuity). Cuffey, K., et al., [1996.eng] 50-6235
- Laboratory study of sediment deformation: stress heterogeneity and grain-size evolution. Iverson, N.R., et al., [1996.eng] 50-6256
- Lake Vostok beneath the antarctic ice sheet—a Russian research proposal. Kaminuma, K., [1995.jpn] 50-3498
- Laurentide ice sheet oscillations as cause of Atlantic Ocean Heinrich events. MacAyeal, D.R., [1993.eng] 50-2869
- Micromorphology of basal till, Burroughs Glacier, Alaska. Ham, N.R., et al., [1995.eng] 50-3741
- Numerical reconstruction of a soft-bedded Laurentide Ice Sheet during the last glacial maximum. Clark, P.U., et al., [1996.eng] 50-6539
- Processes of glacial erosion. Iverson, N.R., [1995.eng] 50-3587
- Processes of glaciectonism. Van der Wateren, F.M., [1995.eng] 50-3590
- Recent drumlins, flutes and lineations at Vestari-Hagafellsjökull, Iceland. Hart, J.K., [1995.eng] 50-1880
- Relevance of glacial bed debris to glacial mechanics. Gow, A.J., et al., [1996.eng] 50-6251
- Research into the Hansbreen, a tidewater glacier in Spitsbergen. Glazovskii, A.F., et al., [1992.eng] 50-3438
- Sedimentology and geomorphology of drumlins in western Allgäu, south Germany. De Jong, M.G.G., et al., [1982.eng] 50-3381
- Seed rain, seedling establishment and clonal growth strategies on a glacier foreland. Stöcklin, J., et al., [1996.eng] 50-5295
- Seismic refraction soundings 1993 on rock glacier permafrost in north-western Svalbard. Wagner, S., [1995.eng] 50-851
- Short pulse radar soundings from glaciers of Peru and China. Thompson, L.G., [1992.eng] 50-67
- Statistical parameters influencing mapping of subglacial topography. Herzfeld, U.C., et al., [1993.eng] 50-1033
- Stratigraphy of Yorkshire, England glacial deposits. Evans, D.J.A., et al., [1995.eng] 50-6213
- Stria distribution and subglacial processes in the Tianshan Mountains. Cui, Z.J., et al., [1995.eng] 50-4520
- Subglacial sediment deformation and rapid changes in the Laurentide Ice Sheet. Jenson, J.W., et al., [1996.eng] 50-5915
- Tholeiitic-alkalic transition at subglacial volcanoes, Tuva region, British Columbia, Canada. Moore, J.G., et al., [1995.eng] 50-3012
- Towards a hydrological model for computerized ice-sheet simulations. Alley, R.B., [1996.eng] 50-6092
- Tracer study of glacial drainage variations in Switzerland. Nienow, P., et al., [1996.eng] 50-5580
- Glacier deposits**
- See [also]: Glacial deposits

Glacier erosion

Glacier mass balance

Glacier erosion

See [also]: Glacial erosion

Glacier flow

- Alaskan glacier basal ice deformation. Hart, J.K., [1995.eng] 50-1882
- Algorithm modeling stress gradients in grounded glaciers. Blatter, H., [1995.eng] 50-454
- Analytical modeling of glacier dynamics. Bahr, D.B., [1996.eng] 50-5023
- Asian glacier ice flow and mass continuity. Cherkasov, P.A., et al., [1996.eng] 50-6057
- Basal friction of Ice Stream E, West Antarctica. MacAyeal, D.R., et al., [1995.eng] 50-448
- Beardmore Glacier glacialic succession, Transantarctic Mountains. Webb, P.N., et al., [1996.eng] 50-6630
- Bering glacier resumes its surge. Molnia, B.F., [1995.eng] 50-3356
- Borehole video analysis of subglacial flow and structure. Harper, J.T., et al., [1995.eng] 50-1100
- Cavities and the effective pressure between abrading clasts and bedrock. Hindmarsh, R.C.A., [1996.eng] 50-6237
- Changes in the configuration of ice stream flow from the West Antarctic ice sheet. Jacobel, R.W., et al., [1996.eng] 50-4360
- Characteristics of dynamics and ablation of glaciers in Patagonia. Naruse, R., [1995.jp] 50-1173
- Characteristics of tide-water calving at Glacier San Rafael, Chile. Warren, C.R., et al., [1995.eng] 50-450
- Climatic controls on glacier mass balance in Glacier Bay. Hunter, L.E., et al., [1995.eng] 50-3737
- Degradation of Arctic ice cap islands from climatic warming. Ignat'eva, I.L., et al., [1993.rus] 50-883
- Dynamics of ice flow. Menzies, J., [1995.eng] 50-3585
- Dynamics of rock glaciers: data from Tröllaskagi, north Iceland. Whalley, W.B., et al., [1995.eng] 50-4833
- Dynamics of the last glaciation in eastern Svalbard. Salvigsen, O., et al., [1995.eng] 50-4714
- Effect of sedimentation on the advance of a fjord-type glacier. Motyka, R.J., et al., [1995.eng] 50-3736
- Effects of moraine-bank sediment budgets on valley glacier stability. Hunter, L.E., et al., [1996.eng] 50-6263
- Firn boundary as a high altitude ridge of the belt flow in mountain basins. Shcheglova, O.P., [1973.rus] 50-434
- Flux of debris transported by ice at three Alaskan tidewater glaciers. Hunter, L.E., et al., [1996.eng] 50-4897
- General geomorphological aspects of the Cumberland Peninsula on Baffin I. Cortemiglia, G.C., et al., [1994.ita] 50-2822
- Geophysical experiments on Ridge B1/B2, Siple Coast. Bentley, C.R., et al., [1994.eng] 50-1888
- Glacial dynamics, material transfer and sedimentation in Spitsbergen. Solli, J.L., et al., [1994.eng] 50-1585
- Glacial flow systems in the zone of confluence between the Scandinavian and Novaya Zemlya ice sheets. Punkari, M., [1995.eng] 50-2130
- Glacial geology and petrography of erratics in Shackleton Range, Antarctica. Hoffe, H.C., et al., [1995.eng] 50-1525
- Glaciers and ice sheets. Menzies, J., [1995.eng] 50-3584
- Glaciological studies on Nelson Island, South Shetland Islands, Antarctica. Ren, J.W., et al., [1995.eng] 50-460
- GPS geodetic activities in the 1994-95 antarctic campaign. Capra, A., et al., [1995.eng] 50-4393
- Greenland ice sheet in response to various climate scenarios. Calov, R., et al., [1996.eng] 50-6435
- Hydraulic run-away: a mechanism for thermally regulated surges of ice sheets. Fowler, A.C., et al., [1995.eng] 50-1876
- Ice flow vectors on the debris-mantled Tasman Glacier, 1957-1986. Kirkbride, M., [1995.eng] 50-2717
- Ice sheet modeling and reconstruction. Hughes, T.J., [1995.eng] 50-3583
- Ice sheet motion and topography from radar interferometry. Kwok, R., et al., [1996.eng] 50-2702
- Ice streams in Antarctica: transverse instability of gravity driven flow. Minala, M., et al., [1996.eng] 50-3722
- Ice-flow indications of complex Alaskan deglaciation events. Syverson, K.M., [1995.eng] 50-1801
- Ice-proximal sediment dynamics in Glacier Bay. Hunter, L.E., et al., [1995.eng] 50-3735
- Implication of glacial dispersal patterns for mineral exploration. McLenaghan, M.B., et al., [1996.eng] 50-6515
- Implications of glacial hydrology and flow for subglacial drainage dynamics. Raymond, C.F., et al., [1995.eng] 50-451
- INACH expedition to Patriot Hills, Nov-Dec. 1995. Casassa, G., [1996.spa] 50-5802
- Large scale motion and temperature distributions in land based ice shields—a review. Hutter, K., et al., [1996.eng] 50-6430
- Links between proglacial stream sediments and glacier motion. Willis, I.C., et al., [1996.eng] 50-6091
- Local interactions and rheologic superposition in subglacial till near Bradville, Ontario, Canada. Hicock, S.R., [1992.eng] 50-2550
- Mapping tide-water glacier dynamics in East Greenland using Landsat data. Dwyer, J.L., [1995.eng] 50-1879
- Mass balance and runoff data at Gulkana Glacier, Alaska, 1992. March, R.S., et al., [1996.eng] 50-4603
- Measurement of ice-sheet topography using satellite-radar interferometry. Joughin, I., et al., [1996.eng] 50-4887
- Measuring a moving glacier. Sauber, J., et al., [1995.eng] 50-3355
- Meteorites as time markers on antarctic blue ice fields. Benoit, P.H., [1995.eng] 50-1408
- New flow law of ice-sheet ice. Azuma, N., [1995.jp] 50-991
- Novel Pleistocene ice flow directions in Poland and Germany. Lagerlund, E., et al., [1995.eng] 50-509
- Numerical simulation of Shirase Glacier. Pattyn, F., et al., [1995.eng] 50-2578
- Permafrost influence on glacier sediment deformation. Etzelmueller, B., et al., [1996.eng] 50-6240
- Precipitation, glacier flow and reduction of glacier areas in relation to climate forming factors. Baidal, M.Kh., [1973.rus] 50-431
- Proceedings. International Symposium on Glacial Erosion and Sedimentation. Reykjavik, Iceland, Aug. 20-25, 1995, [1996.eng] 50-6232
- Quaternary geology of the Buchans area, Newfoundland: implications for mineral exploration. Klassen, R.A., et al., [1996.eng] 50-6634
- Quaternary glacial transport in the Hudson Bay region. Parent, M., et al., [1995.eng] 50-4527
- Quiescent-phase evolution of a surge-type glacier: Black Rapids Glacier, Alaska. U.S.A. Heinrichs, T.A., et al., [1996.eng] 50-4896
- Recent fluctuations of glaciers in Kongsfjorden, Spitsbergen, Svalbard (79°N). Lefauconnier, B., [1992.eng] 50-3436
- Satellite imagery of the onset of streaming flow of ice streams C and D, West Antarctica. Hodge, S.M., et al., [1996.eng] 50-4301
- Seismic refraction soundings 1993 on rock glacier permafrost in north-western Svalbard. Wagner, S., [1995.eng] 50-851
- Shear margins in glaciers and ice sheets. Raymond, C., [1996.eng] 50-4894
- Strain net and ice flow monitoring of Hells Gate ice shelf. Bondesan, A., et al., [1995.eng] 50-4392
- Stress interaction between multiple crevasses in glacier ice. Sas-solas, C., et al., [1996.eng] 50-5464
- Subglacial sediment deformation and rapid changes in the Laurentide ice sheet. Jenson, J.W., et al., [1996.eng] 50-5915
- Theory of lattice Boltzmann simulations of glacier flow. Bahr, D.B., et al., [1995.eng] 50-1883
- Thermomechanical response of the Greenland ice sheet to various climate scenarios. Calov, R., et al., [1996.eng] 50-4522
- Thickness and ablation measurements of Fremont Glacier, Wyoming. Naftz, D.L., et al., [1993.eng] 50-4796
- Till provenance studies of Idaho paleoglaciators. Brugger, K.A., [1996.eng] 50-6245
- Towards a hydrological model for computerized ice-sheet simulations. Alley, R.B., [1996.eng] 50-6092
- Velocity measurement of glacial flow with aerial photogrammetry. Hofmann, W., [1958.ger] 50-5078
- Water pressure and basal sliding on Storglaciären, northern Sweden. Jansson, P., [1995.eng] 50-446
- Glacier fluctuations**
See [also]: Glacier oscillation
- Glacier formation**
Case for cold-base continental ice sheets—a transient thermal model. Heine, J.T., et al., [1996.eng] 50-4890
- Climatic change and the retreat of glaciers. Bonacina, L.C.W., et al., [1947.eng] 50-5788
- Distribution, growth, and variation of glaciers in the Kunlun Mountains. Zhang, Z.S., et al., [1986.chi] 50-1989
- Evolution conditions of recent glacier in Mount Xixia Bangma region. Xie, Z.C., et al., [1982.chi] 50-6596
- Glaciers and ice sheets. Menzies, J., [1995.eng] 50-3584
- Global glacial chronologies and causes of glaciation. Calkin, P.E., et al., [1995.eng] 50-3582
- Increasing CO₂, decreasing insolation, and initiation of ice sheets. Chu, S.P., [1994.eng] 50-671
- Glacier friction**
Dynamics of ice flow. Menzies, J., [1995.eng] 50-3585
- Processes of glacial erosion. Iverson, N.R., [1995.eng] 50-3587
- Stria distribution and subglacial processes in the Tianshan Mountains. Cui, Z.J., et al., [1995.eng] 50-4520
- Glacier heat balance**
Annual air-temperature measurement and ablation estimate at Moreno Glacier, Patagonia. Takeuchi, Y., et al., [1996.eng] 50-5512
- Characteristics of dynamics and ablation of glaciers in Patagonia. Naruse, R., [1995.jp] 50-1173
- Elementary circulation mechanisms and external mass and energy exchange on Svalbard glaciers. Marklin, V.A., [1972.rus] 50-524
- Energy balance model for a small valley glacier, pt. I. Arnold, N.S., et al., [1996.eng] 50-4893
- Glaciers and ice sheets. Menzies, J., [1995.eng] 50-3584
- Greenland ice sheet in response to various climate scenarios. Calov, R., et al., [1996.eng] 50-6435
- Large scale motion and temperature distributions in land based ice shields—a review. Hutter, K., et al., [1996.eng] 50-6430
- Meltwater generation, infiltration and runoff from the Greenland ice sheet. Zou, J.H., [1993.eng] 50-699
- Numerical simulation of Shirase Glacier. Pattyn, F., et al., [1995.eng] 50-2578
- Polythermal model of the antarctic ice sheet. Hansen, I., et al., [1996.eng] 50-6434
- Radiation conditions on the Greenland ice sheet. Konzelmann, T., [1994.eng] 50-69
- Rapid calculation of direct radiation on sloping fields. Wang, J., et al., [1995.chi] 50-5629
- Relationship between temperature and glacier melting with middle troposphere temperature. Volkova, M.V., et al., [1973.rus] 50-433
- Synoptic climatology of ablation on a New Zealand glacier. Hay, J.E., et al., [1988.eng] 50-2448
- Temperature conditions of the glaciers on the northern slope of Mount Xixia Bangma. Huang, M.H., [1982.chi] 50-6598
- Thermal balance of the surface of the Marukh Glacier. Voloshina, A.P., [1972.rus] 50-535
- Workshop on the study of ice, water and heat balance. Golubev, G.N., et al., [1972.rus] 50-519
- Glacier ice**
130 years deposition record of sulfate, nitrate and chloride from a high-alpine glacier. Döschner, A., et al., [1995.eng] 50-4079
- Antarctic ice sheet mass balance. Loewe, F., [1961.ger] 50-6422
- Antarctic snow and ice sciences glossary. Japanese Society of Snow and Ice. Polar Snow and Ice Branch Committee (Nihon seppyo gakkai Kyokuchi seppyo bunkakai iinkai), [1982.jp] 50-339
- Artificially compacted snow and temperature regime in a glacier active layer. Nazarov, V.D., [1992.rus] 50-149
- Bacterial activity in the Schirmacher Ponds in summer. Ramaiyah, N., [1995.eng] 50-1281
- Cations within glacier ice, snow and river water at Xidatan coal mine. Huang, C.L., et al., [1995.chi] 50-5641
- Changes in ice volume of the Fedchenko Glacier over three decades (1928-1958). Dorofeev, I.G., [1972.rus] 50-548
- Chemistry of meltwater from Mount Xixia Bangma. Zhang, S., et al., [1982.chi] 50-6601
- Climatology and perennial lake ice at Bunger Hills. Doran, P.T., et al., [1996.eng] 50-6416
- Contribution to the structural study of high latitude cold ice. Vallon, M., [1963.fre] 50-5741
- Dust in glaciers around Taklimakan Desert. Han, J.K., et al., [1995.eng] 50-615
- Glacial-ice fragments in antarctic sea ice. Haas, C., et al., [1995.eng] 50-464
- Glacier resources and distributive characteristics in the Central Asia Tianshan Mountains. Liu, C.H., [1995.chi] 50-5630
- Greenland ice core records and rapid climate change. Dowdeswell, J.A., et al., [1995.eng] 50-5239
- Ice core records for analyzing desertification. Nakawo, M., et al., [1995.eng] 50-614
- Ice shelf breakup. Fahnestock, M., [1996.eng] 50-3490
- Ice textures in an ice core from the Guliya Ice Cap. Huang, M.H., et al., [1995.eng] 50-4514
- Identification of fossil plant fragments in glaciers. Lindsog, A., et al., [1995.swe] 50-1470
- Interaction of katabatic winds and the formation of blue-ice areas in East Antarctica. Van den Broeke, M.R., et al., [1995.eng] 50-459
- Large scale motion and temperature distributions in land based ice shields—a review. Hutter, K., et al., [1996.eng] 50-6430
- Liquid water content in temperate glacier cores. Joubert, J.L., [1963.fre] 50-5742
- Little Ice Age evidence from a south-central North American ice core. U.S.A. Naftz, D.L., et al., [1996.eng] 50-4334
- Making an ice core. Kopaska-Merkel, D.C., [1995.eng] 50-1150
- Microwave emission from polar firn. West, R.D., [1994.eng] 50-662
- Mineral dust record in a high altitude alpine glacier (Colle Gnifetti, Swiss Alps). Wagenbach, D., et al., [1992.rus] 50-5411
- New device for the measurement of air content in polar ice. Lipenkov, V.I.A., et al., [1995.eng] 50-462
- On naled sheet processes which generate moraine ridges. Klys, P., [1993.eng] 50-2206
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995.eng] 50-1866
- Pegasus: a glacial-ice runway for wheeled flight operations at McMurdo Station. Blaisdell, G.L., et al., [1995.eng] 50-4501
- Report of the Hokkaido University 3rd Alaska glacier survey, June 17-July 28, 1975. Higashi, A., [1976.jp] 50-482
- Report on heavy metals. Melnikov, S.A., [1991.eng] 50-3419
- Seismic operations in the Dzhankui Glacier. Aleshin, A.S., [1972.rus] 50-530
- Snow stratigraphy and accumulation rate in the Lambert Glacier basin. Ren, J.W., et al., [1995.chi] 50-5640
- Temperature conditions of the glaciers on the northern slope of Mount Xixia Bangma. Huang, M.H., [1982.chi] 50-6598
- Texture of glacier and river ice on Mount Xixia Bangma. Huang, M.H., [1982.chi] 50-6599
- Triaxial experiments on iceberg and glacier ice. Gagnon, R.E., et al., [1995.eng] 50-1874
- Ultraviolet (A) and short-wave radiation on the Juneau Icefield. Alaska. Quakenbush, T., et al., [1992.eng] 50-363
- Using group explosions on the surface of antarctic glaciers during deep seismic sounding research. Shumilov, A.V., [1993.rus] 50-4508
- Workshop on the study of ice, water and heat balance. Golubev, G.N., et al., [1972.rus] 50-519
- Glacier mass balance**
Annual air-temperature measurement and ablation estimate at Moreno Glacier, Patagonia. Takeuchi, Y., et al., [1996.eng] 50-5512
- Annual net balance of North Cascade glaciers, 1984-94. Pelto, M.S., [1996.eng] 50-4886
- Antarctic ice sheet melting in the southeast Pacific. Jacobs, S.S., et al., [1996.eng] 50-5458
- Antarctic ice sheet. Drewry, D.J., [1996.eng] 50-4976
- Asian glacier ice flow and mass continuity. Cherkasov, P.A., et al., [1996.eng] 50-6057

Glacier melting

Glacier melting

- Century of accumulation and temperature changes in Dronning Maud Land, Antarctica. Isaksson, E., et al. [1996,eng] 50-4352
- Changes in ice volume of the Fedchenko Glacier over three decades (1928-1958). Dorofeev, I.G., [1972,rus] 50-548
- Changing drainage patterns within South Cascade Glacier, Washington, USA, 1964-1992. Fountain, A.G., et al. [1995,eng] 50-2431
- Characteristics of tide-water calving at Glacier San Rafael, Chile. Warren, C.R., et al. [1995,eng] 50-450
- Climate change impact on hydrology and cryology. Sæthun, N.R., [1995,eng] 50-1005
- Climate change in mountain environments. Willis, I., et al. [1995,eng] 50-1522
- Climate controls on glacier mass balance in Glacier Bay. Hunter, L.E., et al. [1995,eng] 50-3737
- Climate effects on terminus variations of a Norwegian glacier. Nesje, A., et al. [1995,eng] 50-1836
- Climate influences on Chinese water resources. Shi, Y.F., et al. [1995,eng] 50-4231
- Comparison of ice-sheet satellite altimeter retracking algorithms. Davis, C.H., [1996,eng] 50-2703
- Cryospheric indices of global change. Barry, R.G., et al. [1994,eng] 50-4789
- Data on the mass balance of Bashkar glacier in the Caucasus. Korotun, I.N., [1973,rus] 50-430
- Degree-day glacier mass balance modelling. Jóhannesson, T., et al. [1995,eng] 50-455
- Dynamic response of high arctic glaciers to global warming and their contribution to sea-level rise. Lam, J.K.W., et al. [1995,eng] 50-6618
- ECMWF analyses and predictions of the surface climate of Greenland and Antarctica. Genthon, C., et al. [1995,eng] 50-1327
- ELA variations recorded by Orles-Cevedale Glaciers, Italy. Pelfini, M., [1994,eng] 50-3766
- Elastic response of the earth to interannual variations in antarctic precipitation. Conrad, C.P., et al. [1995,eng] 50-3089
- Elementary circulation mechanisms and external mass and energy exchange on Svalbard glaciers. Markin, V.A., [1972,rus] 50-524
- Elevation change of the Greenland ice sheet from satellite altimetry. Wingham, D.J., [1995,eng] 50-5237
- Energy balance model for a small valley glacier, pt. 1. Arnold, N.S., et al. [1996,eng] 50-4893
- Equilibrium zone on polar glaciers. Adams, W.P., et al. [1995,eng] 50-3126
- Evaluation of controls on iceberg-calving glaciers. Wiles, G.C., et al. [1995,eng] 50-3324
- Glacial and fluvial geomorphology of western Himalaya (Liddar Valley). Kaul, M.N., [1990,eng] 50-5550
- Glacial fluctuations in New Zealand determined from snowline. Chinn, T.J.H., [1995,eng] 50-79
- Glacier fluctuations in the Mongun-Taiga Mountains of Tuva. Xie, Z.C., et al. [1995,chi] 50-5617
- Glacier mass balance investigations in Sonnblick region, Austria. Böhm, R., et al. [1991,eng] 50-3519
- Glacier mass balances of Taylor Valley. Fountain, A.G., et al. [1994,eng] 50-3870
- Glacier resources and distributive characteristics in the Central Asia Tianshan Mountains. Liu, C.H., [1995,chi] 50-5630
- Glaciers and global warming. Koerner, R.M., et al. [1995,eng] 50-5040
- Glaciers and ice sheets. Menzies, J., [1995,eng] 50-3584
- Glaciers and lakes in the Tianshan Mountains as indicators of climatic change. Hu, R.J., et al. [1994,eng] 50-3998
- Glaciers in the high Arctic and recent environmental change. Dowdeswell, J.A., [1995,eng] 50-5236
- Glaciers of the Swiss Alps 1975/76 and 1976/77. Kasser, P., et al. [1983,ger] 50-3845
- Glaciers of the Swiss Alps 1977/78 and 1978/79. Kasser, P., et al. [1986,ger] 50-3846
- Glaciological station in Swedish Lapland. Schytt, V., [1962,swe] 50-3944
- Greenland ice sheet in response to various climate scenarios. Calov, R., et al. [1996,eng] 50-6435
- Greenland ice sheet thickness changes measured by laser altimetry. Thomas, R., et al. [1993,eng] 50-4803
- Grounding line and mass balance effects on glacier stability. Hunter, L.E., [1994,eng] 50-694
- Ice sheets, climate change and sea level. Drewry, D., [1996,eng] 50-3411
- Interaction of katabatic winds and the formation of blue-ice areas in East Antarctica. Van den Broeke, M.R., et al. [1995,eng] 50-459
- Late Pleistocene equilibrium-line reconstructions in the northern Peruvian Andes. Rodbell, D.T., [1992,eng] 50-2549
- Late-glacial advances in the western Italian Alps. Porter, S.C., et al. [1982,eng] 50-3383
- Long-term observations for monitoring of the cryosphere. Walsh, J.E., [1995,eng] 50-3350
- Mapping tide-water glacier dynamics in East Greenland using Landsat data. Dwyer, J.L., [1995,eng] 50-1879
- Mass balance and runoff data at Gulkana Glacier, Alaska, 1992. March, R.S., et al. [1996,eng] 50-4603
- Mass balance of Kangwura (flat-top) Glacier on the north side of Mt. Xixiabangma, China. Liu, S.Y., et al. [1996,eng] 50-5514
- Mass balance of the Marukh Glacier for 1968-1970. Menshutin, V.M., [1972,rus] 50-527
- Mass balance on the Dongkemadi and Meikuang glaciers in 1992/1993. Pu, J.C., et al. [1995,chi] 50-5621
- Mass balance variations as surge controls of Norwegian glaciers. Dowdeswell, J.A., et al. [1995,eng] 50-4537
- Measurement of ice-sheet topography using satellite-radar interferometry. Joughin, I., et al. [1996,eng] 50-4887
- Meltwater generation, infiltration and runoff from the Greenland ice sheet. Zou, J.H., [1993,eng] 50-699
- Methods for determining the snow line. Kerschner, H., [1990,ger] 50-1796
- Model of Greenland and antarctic ice sheet thickness variations. Verbitskii, M.I.A., et al. [1995,eng] 50-642
- Modeling and observational study of East Antarctic surface mass balance. Connolley, W.M., et al. [1996,eng] 50-3017
- North Water polynya studies in Baffin Bay, Apr. 1978-Dec. 1979. Müller, F., et al. [1980,eng] 50-3974
- Numerical modelling of ice sheet fluctuation in the Russian Arctic. Siegfert, M.J., et al. [1995,eng] 50-1800
- Numerical reconstruction of a soft-bedded Laurentide Ice Sheet during the last glacial maximum. Clark, P.U., et al. [1996,eng] 50-6539
- Numerical simulation of Shirase Glacier. Pattyn, F., et al. [1995,eng] 50-2578
- Observations in a typical glacial basin of the Bol'shaya Khadata River in 1970-71. Gus'kov, A.S., [1972,rus] 50-529
- On the glaciology of Edgeøya and Barentsøya, Svalbard. Dowdeswell, J.A., et al. [1995,eng] 50-4712
- Polythermal model of the antarctic ice sheet. Hansen, I., et al. [1996,eng] 50-6434
- Preliminary hydrological results from Sarenes glacier basin, French Alps. Barbet, D., et al. [1993,eng] 50-5690
- Proceedings. International Symposium on Biogeochemistry of Seasonally Snow-covered Catchments, Boulder, CO, July 1-14, 1995. [1995,eng] 50-2391
- Qinghai-Xizang Plateau during the maximum glaciation. Shi, Y.F., et al. [1995,chi] 50-5616
- Quiescent-phase evolution of a surge-type glacier: Black Rapids Glacier, Alaska, U.S.A. Heinrichs, T.A., et al. [1996,eng] 50-4896
- Radar measurements of melt zones on the Greenland ice sheet. Jezek, K.C., et al. [1994,eng] 50-4804
- Radiometric data and modeled snowpack conditions for Dye 2, Greenland. Mote, T.L., et al. [1996,eng] 50-4961
- Recent fluctuations of glaciers in Kongsfjorden, Spitsbergen, Svalbard (79°N). Lefauconnier, B., [1992,eng] 50-3436
- Recent glacier fluctuations in inland Asia. Ageta, Y., [1995,jpn] 50-998
- Recent glacier fluctuations in the Himalaya and Karakorum. Yamada, T., et al. [1995,jpn] 50-1174
- Recent oscillations of the San Quintin and San Rafael glaciers, Patagonia Chile. Winchester, V., et al. [1996,eng] 50-5579
- Recent responses of Chilean glaciers to climatic changes. Holmlund, P., et al. [1995,eng] 50-1868
- Reconstructed runoff from the high arctic basin Bayelva based on mass-balance measurements. Hagen, J.O., et al. [1995,eng] 50-4013
- Relations between atmospheric circulation and glacier mass balance. McCabe, G.J., Jr., et al. [1995,eng] 50-3323
- Relevance of ice thickness measurements to Alaskan glacier variations. Nolan, M., et al. [1995,eng] 50-1875
- Representative glacier basins of the Bol'shaya Khadata River in 1969/70. Gus'kov, A.S., [1972,rus] 50-531
- Research into the Hansbreen, a tidewater glacier in Spitsbergen. Glazovskii, A.F., et al. [1992,eng] 50-3438
- Review of recent glacier variations in the Arctic. Kameda, T., [1995,jpn] 50-999
- Simulation of Pleistocene glacial limits in Yunnan, China. Aniya, M., et al. [1991,eng] 50-3307
- Simulation of runoff processes of a continental mountain glacier in the Tian Shan, China. Kang, E.S., et al. [1995,eng] 50-2439
- Simulation of summer snowmelt on the Greenland ice sheet using a one-dimensional model. Rowe, C.M., et al. [1995,eng] 50-585
- Snow cover distribution on a Wyoming glacier. Elder, K., [1995,eng] 50-2438
- Snow in the Spanish Cordilleras. ERHIN Program. 1991/92. [1995,spa] 50-1691
- Snow stratigraphy and accumulation rate in the Lambert Glacier basin. Ren, J.W., et al. [1995,chi] 50-5640
- Source of errors in surface area measurements of glacier mass balance. Jacobsen, F.M., et al. [1995,eng] 50-1865
- Statistical analysis of precipitation and air temperature in the southern Patagonia icefield. Peña, H., et al. [1992,eng] 50-381
- Subglacial lake burst variations in Iceland. Gudmundsson, M.T., et al. [1995,eng] 50-449
- Synoptic climatology of ablation on a New Zealand glacier. Hay, J.E., et al. [1988,eng] 50-2448
- Till provenance studies of Idaho paleoglaciers. Brugger, K.A., [1996,eng] 50-6245
- Topographic control on the dynamics of the Svalbard-Barents Sea ice sheet. Siegfert, M.J., et al. [1996,eng] 50-5306
- Topographic controls on Norwegian Holocene glaciers fluctuations. Aa, A.R., [1996,eng] 50-4374
- Use of sulfur-35 and tritium to study runoff from an alpine glacier. Wind River Range, Wyoming. Michel, R.L., et al. [1995,eng] 50-2437
- Vertical motion and ice thickness variation in western North America. Trupin, A.S., et al. [1996,eng] 50-3068
- Water balance in the Patagonia icefield. Escobar, F., et al. [1992,eng] 50-382
- Water, ice, and meteorological measurements, South Cascade Glacier, 1994. Krimmel, R.M., [1995,eng] 50-53
- Glacier melting**
- Baltic Ice Lake. Brunnberg, L., [1995,eng] 50-513
- Calculating the hydrography of glacier runoff considering the travel time. Pertsiger, F.I., [1991,rus] 50-15
- Changing drainage patterns within South Cascade Glacier, Washington, USA, 1964-1992. Fountain, A.G., et al. [1995,eng] 50-2431
- Climate change in mountain environments. Willis, I., et al. [1995,eng] 50-1522
- Climate, snow cover, glaciers, and runoff in the Tien Shan, central Asia. Aizen, V.B., et al. [1995,eng] 50-2538
- Comment on paper by Blanchon et al. Clark, P.U., et al. [1995,eng] 50-1101
- Conditions for formation and variability of flood flow of rivers in northern Tien Shan. Sumarokova, V.V., [1973,rus] 50-435
- Degradation of glaciation and runoff fluctuations in the upper Naryn River. Diurgerov, M.B., et al. [1994,rus] 50-3488
- Earth rotation, ocean circulation and paleoclimate. Möner, N.A., [1995,eng] 50-6063
- Effect of climate change on hydrologic regime of two climatically different watersheds. Loukas, A., et al. [1996,eng] 50-6100
- Effect of the geographic environment on the occurrence of surface waters from a terraced tundra plain. Szczepanik, W., [1989,pol] 50-2918
- Effects of temperature and solar radiation on glacier melting. Drozdov, O.A., et al. [1973,rus] 50-432
- Energy—water—mass balance and hydrological discharge. Kang, E.S., [1994,eng] 50-5576
- Factors controlling suspended sediment transport in Himalayan glacier meltwaters. Hasnain, S.I., [1996,eng] 50-5688
- Features of the regime and dynamics of the East Aksu glacier in the Kungey Alatau range. Fateev, V.P., et al. [1973,rus] 50-429
- Fresh water in Svalbard fjord ecosystems. Węsławski, J.M., et al. [1995,eng] 50-4137
- Glacial drainage towards the Mediterranean during the Middle and Late Pleistocene. Arkhipov, S.A., et al. [1995,eng] 50-1799
- Glacial-hydrological studies of the Syr Darya basin. Kamalov, B.A., [1973,rus] 50-426
- Glacier runoff in the Sarydzhas River basin. Kononov, V.G., et al. [1991,rus] 50-16
- Gulf of Mexico meltwater influx during Laurentide deglaciation. Marchitto, T.M., et al. [1995,eng] 50-340
- Heat flux over a melting Greenland ice sheet. Braithwaite, R.J., [1995,eng] 50-1877
- Heuristic model for sea level rise due to the melting of small glaciers. Wigley, T.M.L., et al. [1995,eng] 50-1215
- High basal melt rates in Pine Island Glacier. Jenkins, A., et al. [1994,eng] 50-2227
- History and drainage of large ice-dammed lakes along the Laurentide ice sheet. Teller, J.T., [1995,eng] 50-503
- Hydrology of a polythermal glacier, Erikbreen, northern Spitsbergen. Vatne, G., et al. [1995,eng] 50-3150
- Hydrology of Bregger Glacier, Spitsbergen. Kodama, Y., et al. [1995,eng] 50-3249
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995,eng] 50-3123
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995,eng] 50-6046
- Ice pyramids and other ablation forms on Mount Xixia Bangma. Shi, Y.F., et al. [1982,chi] 50-6600
- Ice sheets, climate change and sea level. Drewry, D., [1996,eng] 50-3411
- Ice-flow indications of complex Alaskan deglaciation events. Syverson, K.M., [1995,eng] 50-1801
- Icy indicators of global warming. Denniston, D., [1993,eng] 50-3344
- Impact of subglacial geothermal activity on glacier meltwater quality. Lawler, D.M., et al. [1996,eng] 50-6087
- Integrated approach to modelling hydrology and water quality in glacierized catchments. Richards, K.S., et al. [1996,eng] 50-6083
- Interpretation of hydrochemical evidence for meltwater routing at a high arctic glacier. Hodgkins, R., et al. [1995,eng] 50-2432
- Isotope tracking of Pleistocene ice-rafted debris. Gwiazda, R.H., et al. [1996,eng] 50-4399
- Late Wisconsinian ice retreat from the Scotian Shelf. King, L.H., [1996,eng] 50-6533
- Low probability of east Antarctica Pliocene deglaciation. Warnke, D.A., et al. [1996,eng] 50-6628
- Low-order model of the Heinrich event cycle. MacAyeal, D.R., [1993,eng] 50-2868
- Luminescence dating of the deglaciation in northern Sweden. Lundqvist, J., et al. [1995,eng] 50-515
- Major, minor, and trace element chemistry of surface waters in the Everest region of Nepal. Reynolds, B., et al. [1995,eng] 50-2434
- Mass balance of the Marukh Glacier for 1968-1970. Menshutin, V.M., [1972,rus] 50-527
- Meltwater drainage patterns from alpine glaciers. Collins, D.N., [1995,eng] 50-2430

Glacier movement

- Moraine bank ground-line process during coastal Maine deglaciation. Hunter, L.E., et al. [1996,eng] 50-6532
- No evidence for extreme, long term warming in early Pliocene sediments of the Southern Ocean. Burckle, L.H., et al. [1996,eng] 50-6627
- Not yodelling but drowning. Edwards, R., [1995,eng] 50-1965
- Numerical landscapes: static, kinematic and dynamic process-form relations. Richards, K., et al. [1995,eng] 50-4153
- Numerical modelling of ice sheet fluctuation in the Russian Arctic. Siegert, M.J., et al. [1995,eng] 50-1800
- On favorable and unfavorable properties of continental climates for glaciation. Tronov, M.V., [1973,rus] 50-422
- Pliocene paleoclimate of Dry Valleys of Southern Victoria Land. Marchant, D.R., et al. [1996,eng] 50-6629
- Preliminary hydrological results from Sarennes glacier basin, French Alps. Barbet, D., et al. [1993,eng] 50-5690
- Primary succession and future vegetation patterns at Glacier Bay. Chapin, F.S., III, et al. [1995,eng] 50-3743
- Proceedings. International Symposium on Biogeochemistry of Seasonally Snow-covered Catchments, Boulder, CO, July 1-14, 1995. [1995,eng] 50-2391
- Qinghai Lake paleohydrological variations due to climatic changes. Nakao, K., et al. [1995,eng] 50-6718
- Qualitative successional models in Glacier Bay. Sharman, L.C., et al. [1995,eng] 50-3753
- Relationship between temperature and glacier melting with middle troposphere temperature. Volkova, M.V., et al. [1973,rus] 50-433
- RIVER3: simulation of river discharge and sediment transport. Syvitski, J.P.M., et al. [1995,eng] 50-3597
- Role of glaciers in river runoff in Central Asia. Kemmerikh, A.O., [1972,rus] 50-523
- Runoff modeling of a debris-covered glacier in Nepal. Rana, B., et al. [1996,eng] 50-5509
- Simulation of runoff processes of a continental mountain glacier in the Tian Shan, China. Kang, E.S., et al. [1995,eng] 50-2439
- Stability of water flow in glaciers. Szilder, K., et al. [1996,eng] 50-6436
- Statistical evaluation of glacier boreholes as indicators of basal drainage systems. Smart, C.C., [1996,eng] 50-6089
- Subglacial chemical erosion in a Swiss mountain glacier. Brown, G.H., et al. [1996,eng] 50-6236
- Subglacial hydrology of a Swiss glacier. Hubbard, B.P., et al. [1995,eng] 50-1878
- Subglacial meltwater composition sampled through boreholes. Lamb, H.R., et al. [1995,eng] 50-2433
- Thermal balance of the surface of the Marikh Glacier. Voloshina, A.P., [1972,rus] 50-535
- Transit time of meltwaters in alpine glaciers. Collins, D.N., [1995,eng] 50-2429
- Two-step deglaciation of the southeastern Barents Sea. Poliak, L., et al. [1995,eng] 50-561
- Use of sulfur-35 and tritium to study runoff from an alpine glacier. Wind River Range, Wyoming. Michel, R.L., et al. [1995,eng] 50-2437
- Vertical motion and ice thickness variation in western North America. Trupin, A.S., et al. [1996,eng] 50-3068
- What really ended the last ice age? Scientists say the oceans did it. [1992,eng] 50-720
- Winter outflows of waters from the Werenskiöld Glacier in the hydrological year 1985/1986. Krawczyk, W.E., et al. [1993,eng] 50-2207
- Glacier movement**
See [also]: Glacier flow
- Glacier oscillation**
12,000 year radiocarbon date of deglaciation from the continental divide of northwestern Montana. Carrara, P.E., [1995,eng] 50-3299
- Age of pre-late-Wisconsin glacial-estuarine sedimentation, Bristol Bay, Alaska. Kaufman, D.S., et al. [1996,eng] 50-4586
- Alaskan glacier races forward. [1993,eng] 50-4791
- Alpine "ice-man" and Holocene climatic change. Baroni, C., et al. [1996,eng] 50-6708
- Alpine glacial advances derived from summer air temperature records. Bray, J.R., [1982,eng] 50-3380
- Alpine glacial history reconstruction in Wyoming and Argentina. Gosse, J.C., [1994,eng] 50-672
- Alpine glaciers in the Little Ice Age—catalogue and C¹⁴ documentation. Zumbühl, H.J., et al. [1990,ger] 50-3398
- Alpine glaciers in the Little Ice Age. Zumbühl, H.J., et al. [1988,ger] 50-3397
- Analysis of morphological characteristics of regions of glaciation. Vinogradov, O.N., et al. [1972,rus] 50-547
- Annual net balance of North Cascade glaciers, 1984-94. Pelto, M.S., [1996,eng] 50-4886
- Arctic and environmental change. Wadhams, P., ed, et al. [1995,eng] 50-5226
- Areal extent and frontal elevations of Swiss glaciers, 1876-1957. Mercanton, P.L., [1958,eng] 50-5744
- Atlantic Ocean sedimentary evidence for Pleistocene ice rafting. Robinson, S.G., et al. [1995,eng] 50-1110
- Baltic Ice Lake. Brunnberg, L., [1995,eng] 50-513
- Barents Sea ice sheet retreat. Forman, S.L., et al. [1996,eng] 50-5585
- Barents Sea Pleistocene ice sheet growth deduced from marine sediment provenance. Elverhøi, A., et al. [1995,eng] 50-2012
- Basic features of glacial landforms in the Minshan. Tang, B.X., et al. [1994,eng] 50-4783

Glacier oscillation

- Behavior of the East Antarctic ice sheet as deduced from a coupled GCM/ice-sheet model. Verbitskii, M.I.A., et al. [1995,eng] 50-4538
- Building a glaciological information system for a surging glacier. Garelik, I.S., et al. [1994,rus] 50-3489
- Cenozoic deposition on the Svalbard continental shelf. Solheim, A., et al. [1996,eng] 50-5312
- Changes in North Atlantic deep-water formation associated with the Heinrich events. Maslin, M.A., [1995,eng] 50-638
- Characteristics of dynamics and ablation of glaciers in Patagonia. Naruse, R., [1995,jpn] 50-1173
- Characteristics of the glaciation of the Alay mountain system. Suslov, V.F., [1973,rus] 50-427
- Characteristics of the post-glacial advance and retreat in Mount Xixia Bangma region. Zheng, B.X., [1982,chi] 50-6606
- Chronology of late Wisconsin ice retreat from the western Ross Sea, Antarctica. Licht, K.J., et al. [1996,eng] 50-3814
- Climatic change and the retreat of glaciers. Bonacina, L.C.W., et al. [1947,eng] 50-5788
- Climatic changes in Europe during the last glacial/interglacial transition. Walker, M.J.C., [1995,eng] 50-502
- Climatic controls on glacier mass balance in Glacier Bay. Hunter, L.E., et al. [1995,eng] 50-3737
- Climatic effects on terminus variations of a Norwegian glacier. Nesje, A., et al. [1995,eng] 50-1836
- Climatic implications of Norwegian Neoglacial glacier maximum. Matthews, J.A., [1991,eng] 50-3306
- Climatic variation of Xinjiang in recent 3000 years. Li, J.F., [1985,chi] 50-1996
- Climatological interpretation of a firn pollen profile. Ambach, W., et al. [1967,ger] 50-5746
- Climatological significance of moraine ridges in Iceland. Krüger, J., [1995,eng] 50-2858
- Comment on paper by Baumann et al. Forsström, L., et al. [1996,eng] 50-6709
- Comment on paper by Blanchon et al. Clark, P.U., et al. [1995,eng] 50-1101
- Contemporary deglaciation of the Recherche and Renard Glaciers. Spitsbergen. Reder, J., [1993,eng] 50-2208
- Contributions to the glacial history of Liefdefjord/NW Spitsbergen. Furrer, G., [1994,ger] 50-1579
- Cryospheric indices of global change. Barry, R.G., et al. [1994,eng] 50-4789
- Dating analysis of Norwegian Neoglacial moraines. Matthews, J.A., et al. [1996,eng] 50-4375
- Debris transfer and sedimentary environments: alpine glaciated areas. Johnson, P.G., [1995,eng] 50-4828
- Deglaciation chronology of West Greenland moraines. Van Tatenhove, F.G.M., et al. [1996,eng] 50-5187
- Deglaciation of a Late Devensian British ice sheet. Merritt, J.W., et al. [1995,eng] 50-1858
- Degree-day glacier mass balance modelling. Jóhannesson, T., et al. [1995,eng] 50-4555
- Diatoms in South Pole ice: implications for eolian contamination of Sirius Group deposits. Kellogg, D.E., et al. [1996,eng] 50-3387
- Discussion on the Quaternary glaciations in the Karakorum-West Kunlun Mountains. Li, B.Y., et al. [1994,eng] 50-1534
- Distribution, growth, and variation of glaciers in the Kunlun Mountains. Zhang, Z.S., et al. [1986,chi] 50-1989
- Dynamics of rock glaciers: data from Tröllaskagi, north Iceland. Whalley, W.B., et al. [1995,eng] 50-4833
- Eemian interglacial and its termination. Dansgaard, W., et al. [1981,eng] 50-3622
- Effect of sedimentation on the advance of a fjord-type glacier. Moryka, R.J., et al. [1995,eng] 50-3736
- ELA variations recorded by Ortles-Cevedale Glaciers, Italy. Pelfini, M., [1994,eng] 50-3766
- Elevation change of the Greenland ice sheet from satellite altimetry. Wingham, D.J., [1995,eng] 50-5237
- European paleoclimatic variations inferred from Greenland ice core isotope analysis. Hafidason, H., et al. [1995,eng] 50-2528
- European soil thermal contraction related to ice sheet dynamics. van Vliet-Lanoë, B., [1996,fre] 50-6340
- Evaluation of controls on iceberg-calving glaciers. Wiles, G.C., et al. [1995,eng] 50-3324
- Final stages in Laurentide ice sheet collapse, Hudson Strait. Andrews, J.T., et al. [1995,eng] 50-6556
- Fluctuations of local glaciers at the termination of the Pleistocene: 18-8 ka BP. Clapperton, C.M., [1995,eng] 50-500
- Fluctuations of the South Patagonian ice-field during the last glaciation and the Holocene. Marden, C.J., et al. [1995,eng] 50-6211
- Full-glacial shoreline vegetation during the maximum highstand at Owens Lake, California. Koehler, P.A., et al. [1994,eng] 50-1543
- Geomorphic effects of the retreat of Jamapa Glacier, Pico de Orizaba Volcano (Mexico). Palacios, D., et al. [1996,eng] 50-5578
- Geomorphology and dynamics of the Laurentide Ice Sheet in Wisconsin. Ham, N.R., [1994,eng] 50-693
- Glacial and fluvial geomorphology of western Himalaya (Liddar Valley). Kaul, M.N., [1990,eng] 50-5550
- Glacial erosion as a consequence of subglacial sediment deformation. Boulton, G.S., [1996,eng] 50-4891
- Glacial flow systems in the zone of confluence between the Scandinavian and Novaya Zemlya ice sheets. Punkari, M., [1995,eng] 50-2130
- Glacial fluctuations in New Zealand determined from snowline. Chinn, T.J.H., [1995,eng] 50-79
- Glacial overdeepened valleys in the Austrian Alps. Van Husen, D., [1990,ger] 50-1790
- Glacier fluctuations and sediment yields in Glacier Bay, Cai. J.K., et al. [1995,eng] 50-3733
- Glacier fluctuations in the Mongun-Taiga Mountains of Tuva. Xie, Z.C., et al. [1995,chi] 50-5617
- Glacier mass balance investigations in Sonnblick region, Austria. Böhm, R., et al. [1991,eng] 50-3519
- Glacier process studies at Burroughs Glacier. Mickelson, D.M., et al. [1995,eng] 50-3738
- Glacier properties on Mt. Qogir, Karakorum. Qin, D.H., et al. [1994,eng] 50-1538
- Glacier retreat and raised beaches at Three Sisters Point. Birkenmajer, K., [1995,eng] 50-3937
- Glacier variations 1930-1960, 1960-1990, and 1991-1992. Sigurdsson, O., [1993,ice] 50-4773
- Glacier-fed delta at a Barents Sea fjord. Laberg, J.S., et al. [1996,eng] 50-5921
- Glaciers and climate of the mountains of the former USSR during the Neoglacial. Serebrianniy, L.R., et al. [1996,eng] 50-6552
- Glaciers and glaciation in Glacier National Park, Montana. Carrara, P.E., [1993,eng] 50-4795
- Glaciers and global warming. Koerner, R.M., et al. [1995,eng] 50-5040
- Glaciers and lakes in the Tianshan Mountains as indicators of climatic change. Hu, R.J., et al. [1994,eng] 50-3998
- Glaciers in the high Arctic and recent environmental change. Dowdeswell, J.A., [1995,eng] 50-5236
- Glaciers of the Swiss Alps 1975/76 and 1976/77. Kasser, P., et al. [1983,ger] 50-3845
- Glaciers of the Swiss Alps 1977/78 and 1978/79. Kasser, P., et al. [1986,ger] 50-3846
- Glaciers. Meier, M.F., [1996,eng] 50-4983
- Glaciological research in Hidden Valley, Mukut Himal in 1994. Fujii, Y., et al. [1996,eng] 50-5510
- Glaciological station in Swedish Lapland. Schyn, V., [1962,swe] 50-3944
- Glaciological studies in the high central Andes using digital processing of satellite images. Llorens, R.E., et al. [1995,eng] 50-3339
- Global glacial chronologies and causes of glaciation. Calkin, P.E., et al. [1995,eng] 50-3582
- Global sea level rise and glacial isostatic adjustment. Pelletier, W.R., [1996,eng] 50-4310
- Gould Pond, Maine: late-glacial transitions from marine to upland environments. Anderson, R.S., et al. [1992,eng] 50-2561
- Greenland ice core records and rapid climate change. Dowdeswell, J.A., et al. [1995,eng] 50-5239
- Greenland ice sheet in response to various climate scenarios. Calov, R., et al. [1996,eng] 50-6435
- Grounding line and mass balance effects on glacier stability. Hunter, L.E., [1994,eng] 50-694
- Groundwater flow beneath ice sheets: part I—large scale patterns. Boulton, G.S., et al. [1995,eng] 50-2128
- Growth and decay of the Laurentide Ice Sheet and comparisons with Fennoscandia. Ives, J.D., et al. [1990,eng] 50-1787
- Gulf of Alaska paleoclimatological influence on marine ecology. Lagoe, M.B., et al. [1996,eng] 50-6625
- History and drainage of large ice-dammed lakes along the Laurentide ice sheet. Teller, J.T., [1995,eng] 50-503
- Holocene glacial chronology in Patagonia: Tyndall and Upsala glaciers. Aniya, M., [1995,eng] 50-2806
- Holocene glacier variations in central Asia. Savoskul, O.S., et al. [1996,eng] 50-4372
- Holocene solifluction in the Swiss Alps: dating and climatic implications. Gamper, M., [1993,eng] 50-824
- Holocene subalpine lake fluctuations in France. Magny, M., [1992,eng] 50-2560
- Holocene variations of Ameghino Glacier, southern Patagonia. Aniya, M., [1995,eng] 50-6081
- Hudson Bay-Hudson Strait jokulhlaups and Heinrich events: a hypothesis. Johnson, R.G., et al. [1995,eng] 50-354
- Ice age sea level. Gornitz, V., [1996,eng] 50-4990
- Ice ages. Kneller, M., [1996,eng] 50-4989
- Ice rafting history from the Spitsbergen ice cap over the last 200 kyr. Lloyd, J.M., et al. [1996,eng] 50-5224
- Ice rafting sources for Younger Dryas detrital carbonate in the North Atlantic. Andrews, J.T., et al. [1995,eng] 50-1564
- Ice sheet model test via glacial geological research in West Greenland. Van Tatenhove, F.G.M., et al. [1995,eng] 50-2013
- Ice sheets, climate change and sea level. Drewry, D., [1996,eng] 50-3411
- Ice-proximal sediment dynamics in Glacier Bay. Hunter, L.E., et al. [1995,eng] 50-3735
- Ice-sheet growth and high-latitudes sea-surface temperature. Berger, A., et al. [1996,eng] 50-5862
- Implications of bedrock cosmic ray exposure age for Fennoscandian ice sheet height. Brook, E.J., et al. [1996,eng] 50-3813
- Isotope analysis of Bering Sea Pleistocene sediment variations. Nakatsuka, T., et al. [1995,eng] 50-3002
- Landscape differentiation and development of southeastern Sørkapp Land. Ziaja, W., [1993,eng] 50-2216
- Last deglaciation of the Franz Victoria Trough, northern Barents Sea. Lubinski, D.J., et al. [1996,eng] 50-6535
- Last glaciation in central Magellan Strait, southernmost Chile. Clapperton, C.M., et al. [1995,eng] 50-964

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- Last Scottish ice-sheet: facts and speculative discussion. Sissons, J.B., [1981,eng] 50-3620
- Late Cenozoic history of the Scandinavian and Barents Sea ice sheets. Mangerud, J., et al., [1996,eng] 50-5305
- Late Holocene glacier fluctuations in western Norway. Nesje, A., et al., [1991,eng] 50-3302
- Late Pleistocene equilibrium-line reconstructions in the northern Peruvian Andes. Rodbell, D.T., [1992,eng] 50-2549
- Late Quaternary glacial and climatic history of the Liddar Valley, Kashmir Himalaya. Kaul, M.N., [1994,eng] 50-5549
- Late-glacial advances in the western Italian Alps. Porter, S.C., et al., [1982,eng] 50-3383
- Late-Holocene glaciation and twentieth-century retreat, north-eastern Brooks Range, Alaska. Everson, L.H., et al., [1996,eng] 50-4371
- Lateglacial and Holocene variations of the Grey Glacier, an outlet of the South Patagonian icefield. Marden, C.J., [1993,eng] 50-3013
- Laurentide ice sheet oscillations as cause of Atlantic Ocean Heinrich events. MacAyeal, D.R., [1993,eng] 50-2869
- Lichenometric dating of alpine Little Ice Age moraines. Winkel, S., et al., [1995,ger] 50-3396
- Little Ice Ages. Grove, J.M., [1996,eng] 50-4993
- Low probability of east Antarctica Pliocene deglaciation. Warnke, D.A., et al., [1996,eng] 50-6628
- Low-order model of the Heinrich event cycle. MacAyeal, D.R., [1993,eng] 50-2868
- Luminescence dating of the deglaciation in northern Sweden. Lundqvist, J., et al., [1995,eng] 50-515
- Maintenance of the last great ice sheets: a UGAMP GCM study. Hall, N.M.J., et al., [1996,eng] 50-5531
- Mapping alpine snow and ice using Landsat TM and SAR imagery at Wapta icefield. Brugman, M.M., et al., [1996,eng] 50-5545
- Mapping tide-water glacier dynamics in East Greenland using Landsat data. Dwyer, J.L., [1995,eng] 50-1879
- Margin of the last Barents-Kara ice sheet at Markhida, northern Russia. Tveranger, J., et al., [1995,eng] 50-2014
- Marine sedimentation rates as evidence of continental glaciation. Goldschmidt, P.M., [1995,eng] 50-1828
- Mass balance and runoff data at Gulkana Glacier, Alaska, 1992. March, R.S., et al., [1996,eng] 50-4603
- Mass balance of Kangwura (flat-top) Glacier on the north side of Mt. Xixiabangma, China. Liu, S.Y., et al., [1996,eng] 50-5514
- Mass balance on the Dongkemadi and Meikuang glaciers in 1992/1993. Pu, J.C., et al., [1995,chi] 50-5621
- Mass balance variations as surge controls of Norwegian glaciers. Dowdeswell, J.A., et al., [1995,eng] 50-4537
- Methods for determining the snow line. Kerschner, H., [1990,ger] 50-1796
- Moraine formation from subglacial frozen sedimentation. Krüger, J., [1996,eng] 50-5830
- Moraines and ice scoured topographies in southern Patagonia. Yamada, S., [1992,eng] 50-380
- Neoglaciation and vegetation change in British Columbia. Clague, J.J., et al., [1996,eng] 50-4332
- Nonglacial interval in Canadian Pleistocene sediments. Hicock, S.R., et al., [1995,eng] 50-1087
- North Sea lithostratigraphy related to glacial isostasy. Ekman, S.R.R., [1995,eng] 50-6560
- Northern exposures. Thomson, K.S., [1993,eng] 50-3146
- Novel Pleistocene ice flow directions in Poland and Germany. Lagerlund, E., et al., [1995,eng] 50-509
- Ocean bottom trenching by an Icelandic glacier. Björnsson, H., [1996,eng] 50-6252
- On changes of air pressure during an ice age. Loewe, F., [1973,ger] 50-4617
- On the glaciology of Edgøya and Barentsøya, Svalbard. Dowdeswell, J.A., et al., [1995,eng] 50-4712
- Paleoclimate of the North Atlantic seaboard during the last glacial/interglacial transition. Lowe, J.J., et al., [1995,eng] 50-501
- Paleoclimatic changes and glacier variations in Colombia. Thouret, J.C., et al., [1996,eng] 50-6706
- Paleoclimatic implications of Norwegian postglacial avalanches. Blüthner, L.H., et al., [1993,eng] 50-835
- Paleoclimatological variations from isotope analysis of marine deposits. Rial, J.A., [1995,eng] 50-1286
- Paleogeology's grand unsolved problem. Grosvald, M.G., et al., [1995,eng] 50-453
- Past and present glacial landforms of the central Qilian Shan. Lehmkuhl, F., [1995,ger] 50-6077
- Peat bog paleoclimatology and ecology adjoining an Italian glacier. Burga, C.A., [1995,fre] 50-862
- Photogrammetry and geomorphology of high arctic push moraines. King, L., et al., [1993,eng] 50-1673
- Pleistocene climatic changes in arctic marine atmospheres. Seidenkrantz, M.S., et al., [1996,eng] 50-5584
- Pleistocene glaciation and the Earth's precession constant. Mitrovica, J.X., et al., [1995,eng] 50-517
- Pleistocene glaciomarine isostatic rebound, Puget Lowland, Washington. Dethier, D.P., et al., [1995,eng] 50-1832
- Pleistocene mountain glacier fluctuation in Chile. Andersen, B.G., et al., [1995,eng] 50-516
- Pleistocene termination in northern Eurasia. Velichko, A.A., [1995,eng] 50-505
- Plio-Pleistocene megacycles: record of climate and tectonics. Kukla, G., et al., [1996,eng] 50-5099
- Polythermal model of the antarctic ice sheet. Hansen, I., et al., [1996,eng] 50-6434

- Possible influence of glacial eustasy on antarctic shelf stratigraphy. Bartek, L.R., et al., [1996,eng] 50-4823
- Present glaciation in the mountains of Central Asia. Konov-alova, G.I., [1972,rus] 50-556
- Problematic ice sheets. Rutter, N.W., [1995,eng] 50-498
- Proceedings. Glacier Bay Science Symposium, 3rd, Glacier Bay National Park and Preserve, Gustavus, AK, Sep. 15-18, 1993. [1995,eng] 50-3730
- Qinghai-Xizang Plateau during the maximum glaciation. Shi, Y.F., et al., [1995,chi] 50-5616
- Quaternary glacial transport in the Hudson Bay region. Parent, M., et al., [1995,eng] 50-4527
- Quaternary glaciation in the Karakoram and Himalayas. Derbyshire, E., [1996,eng] 50-5097
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Quiescent-phase evolution of a surge-type glacier: Black Rapids Glacier, Alaska, U.S.A. Heinrichs, T.A., et al., [1996,eng] 50-4896
- Radiocarbon dating of glacial moraines in California. Dorn, R.I., [1996,eng] 50-6098
- Rapid isostatic rebound in southwestern Iceland at the end of the last glaciation. Ingólfsson, O., et al., [1995,eng] 50-1802
- Rapid oscillations in Vostok and GRIP ice cores. Yiou, P., et al., [1995,eng] 50-772
- Recent climate changes in southern Patagonia. Ibarzabal y Donangelo, T., et al., [1996,eng] 50-5513
- Recent fluctuations of glaciers in Kongsfjorden, Spitsbergen, Svalbard (79°N). Lefauconnier, B., [1992,eng] 50-3436
- Recent glacier fluctuations in inland Asia. Ageta, Y., [1995,jpn] 50-998
- Recent glacier fluctuations in the Himalaya and Karakorum. Yamada, T., et al., [1995,jpn] 50-1174
- Recent glacier variations in the Patagonia icefield. Aniya, M., et al., [1996,jpn] 50-3505
- Recent oscillations of the San Quintin and San Rafael glaciers, Patagonian Chile. Winchester, V., et al., [1996,eng] 50-5579
- Recent responses of Chilean glaciers to climatic changes. Holmlund, P., et al., [1995,eng] 50-1868
- Relative sea level in the area of Matane (Québec) from deglaciation to present day. Dionne, J.C., et al., [1995,fre] 50-5036
- Relevance of ice thickness measurements to Alaskan glacier variations. Nolan, M., et al., [1995,eng] 50-1875
- Repeat photography and landscape change at Glacier Bay, 1879-1993. Lawrence, D.B., et al., [1995,eng] 50-3742
- Reports on the Glaciological Survey of 1993. Armando, E., et al., [1994,ita] 50-3767
- Review of recent glacier variations in the Arctic. Kameda, T., [1995,jpn] 50-999
- Rowe Glacier—annual research report 1993. Scott, R.B., [1994,eng] 50-5547
- Sandbanks in river beds in the foreground of Hörby Glacier, Spitsbergen. Rachlewicz, G., [1989,pol] 50-2894
- Sediment yields, lithofacies and mudrock in glaciomarine environments. Cai, J.K., [1994,eng] 50-695
- Sedimentary environments associated with glacial Lake Trimmingham, Norfolk. UK. Hart, J.K., [1992,eng] 50-2554
- Sedimentological data on cores from the Joides Basin. Corradi, N., et al., [1995,eng] 50-4394
- Sequence analysis of Canadian glaciolacustrine deposits. Martini, I.P., et al., [1995,eng] 50-1084
- Skógar Tephra, a Younger Dryas marker in North Iceland. Nordahl, H., et al., [1992,eng] 50-2548
- Snow cover and ice formation on the northern slope of Mount Xixia Bangma. Xie, Z.C., [1982,chi] 50-6597
- Statistical analysis of lithology of Arctic Ocean sediments. Darby, D.A., et al., [1996,eng] 50-5025
- Statistical analysis of precipitation and air temperature in the southern Patagonia icefield. Peña, H., et al., [1992,eng] 50-381
- Subglacial sediment deformation and rapid changes in the Laurentide Ice Sheet. Jensen, J.W., et al., [1996,eng] 50-5915
- Summary of Project IGCP-253. Lundqvist, J., et al., [1995,eng] 50-497
- Summer solstice solar radiation, the 100 kyr ice age cycle, and the next ice age. Ledley, T.S., [1995,eng] 50-1214
- Swiss alpine paleoclimate during the Holocene: pollen analytical evidence and general features. Burga, C.A., [1993,eng] 50-825
- Synoptic climatology of ablation on a New Zealand glacier. Hay, J.E., et al., [1988,eng] 50-2448
- Taku Glacier, southeast Alaska, U.S.A.: Late Holocene history of a tidewater glacier. Motyka, R.J., et al., [1996,eng] 50-4335
- Ten million year histories of obliquity and precession: the influence of the ice-age cycle. Jiang, X.H., et al., [1996,eng] 50-5044
- Thermomechanical response of the Greenland ice sheet to various climate scenarios. Calov, R., et al., [1996,eng] 50-4522
- Thickness and ablation measurements of Fremont Glacier, Wyoming. Naftz, D.L., et al., [1993,eng] 50-4796
- Topographic controls on Norwegian Holocene glaciers fluctuations. Aa, A.R., [1996,eng] 50-4374
- Use of karst deposits in the French Jura for paleoclimatological analysis. Chaline, J., et al., [1995,eng] 50-1122
- Variations of Upsala Glacier in southern Patagonia since the late Holocene to the present. Malagüino, E., et al., [1992,eng] 50-379
- Warming at 18,000 yr B.P. in the tropical Andes. Helmens, K.F., et al., [1996,eng] 50-5189

- Water balance in the Patagonia icefield. Escobar, F., et al., [1992,eng] 50-382
- Water fern residue as Chilean paleoclimatic indicator. Heusser, C.J., et al., [1996,eng] 50-5488
- Water, ice, and meteorological measurements, South Cascade Glacier, 1994. Kimmel, R.M., [1995,eng] 50-53
- Weichselian chronostratigraphy and correlations. Möner, N.A., [1981,eng] 50-3624
- Weichselian glaciation in Svalbard before 15,000 B.P. Salvigsen, O., et al., [1981,eng] 50-3623
- Younger Dryas end moraines in Finland and NW Russia. Rainio, H., et al., [1995,eng] 50-514
- Younger Dryas ice-marginal zone in Sweden. Lundqvist, J., [1995,eng] 50-512
- Younger Dryas margin of the Scandinavian ice sheet—an introduction. Andersen, B.G., et al., [1995,eng] 50-510
- Glacier surfaces**
- Ablation of debris-covered ice at Burroughs Glacier. Syverson, K.M., et al., [1995,eng] 50-3739
- Calculating the hydrography of glacier runoff considering the travel time. Persinger, F.I., [1991,rus] 50-15
- Changes in ice volume of the Fedchenko Glacier over three decades (1928-1958). Dorofeev, I.G., [1972,rus] 50-548
- Cheap, quick and safe way of surveying glaciers. Wright, J.W., et al., [1995,eng] 50-2995
- Effects of temperature and solar radiation on glacier melting. Drozdov, O.A., et al., [1973,rus] 50-432
- ELA variations recorded by Ortles-Cevedale Glaciers, Italy. Pelfini, M., [1994,eng] 50-3766
- Elementary circulation mechanisms and external mass and energy exchange on Svalbard glaciers. Markin, V.A., [1972,rus] 50-524
- Glacier resources and distributive characteristics in the Central Asia Tianshan Mountains. Liu, C.H., [1995,chi] 50-5630
- Hydraulic geometry of the supraglacial stream Ragnarbreen, Spitsbergen. Kostrewski, A., et al., [1989,pol] 50-2893
- Ice flow vectors on the debris-mantled Tasman Glacier, 1957-1986. Kirkbride, M., [1995,eng] 50-2717
- Ice pyramids and other ablation forms on Mount Xixia Bangma. Shi, Y.F., et al., [1982,chi] 50-6600
- INACH expedition to Patriot Hills, Nov.-Dec. 1995. Casassa, G., [1996,spa] 50-5802
- Mapping alpine snow and ice using Landsat TM and SAR imagery at Wapta icefield. Brugman, M.M., et al., [1996,eng] 50-5545
- Meteorites as time markers on antarctic blue ice fields. Benoit, P.H., [1995,eng] 50-1408
- Microwave remote sensing of ice sheets by SAR interferometry. Nishio, F., [1995,jpn] 50-1175
- On the glaciology of Edgøya and Barentsøya, Svalbard. Dowdeswell, J.A., et al., [1995,eng] 50-4712
- Present glaciation in the mountains of Central Asia. Konov-alova, G.I., [1972,rus] 50-556
- Radar measurements of melt zones on the Greenland ice sheet. Jezek, K.C., et al., [1994,eng] 50-4804
- Rapid calculation of direct radiation on sloping fields. Wang, J., et al., [1995,chi] 50-5629
- Relationship between temperature and glacier melting with middle troposphere temperature. Volkova, M.V., et al., [1973,rus] 50-433
- Reports on the Glaciological Survey of 1993. Armando, E., et al., [1994,ita] 50-3767
- Rowe Glacier—annual research report 1993. Scott, R.B., [1994,eng] 50-5547
- Runoff modeling of a debris-covered glacier in Nepal. Rana, B., et al., [1996,eng] 50-5509
- Satellite imagery of ice sheet drainage basins, Russian Arctic. Dowdeswell, J.A., et al., [1995,eng] 50-3327
- Supraglacial debris transport over time. Whalley, W.B., et al., [1996,eng] 50-6258
- Glacier surges**
- Alaskan glacier races forward. [1993,eng] 50-4791
- Bering glacier resumes its surge. Molnia, B.F., [1995,eng] 50-3356
- Building a glaciological information system for a surging glacier. Garelik, I.S., et al., [1994,rus] 50-3489
- Concertina eskers, Brúarjökull, Iceland: an indicator of surge-type glacier behavior. Knudsen, O., [1995,eng] 50-1407
- Controls on glacier surging in Svalbard. Hamilton, G.S., et al., [1996,eng] 50-4900
- Dynamics of ice flow. Menzies, J., [1995,eng] 50-3585
- Hudson Bay-Hudson Strait jökullauks and Heinrich events: a hypothesis. Johnson, R.G., et al., [1995,eng] 50-354
- Hydraulic run-away: a mechanism for thermally regulated surges of ice sheets. Fowler, A.C., et al., [1995,eng] 50-1876
- Mass balance variations as surge controls of Norwegian glaciers. Dowdeswell, J.A., et al., [1995,eng] 50-4537
- Measuring a moving glacier. Sauber, J., et al., [1995,eng] 50-3355
- On the glaciology of Edgøya and Barentsøya, Svalbard. Dowdeswell, J.A., et al., [1995,eng] 50-4712
- Paleogeography of the Hörby valley during the Plenivistulian and Holocene. Karczewski, A., [1989,pol] 50-2885
- Quiescent-phase evolution of a surge-type glacier: Black Rapids Glacier, Alaska, U.S.A. Heinrichs, T.A., et al., [1996,eng] 50-4896
- Recent glacier fluctuations in the Himalaya and Karakorum. Yamada, T., et al., [1995,jpn] 50-1174
- Sediment discharge from an Alaskan surging glacier. Merrand, Y., et al., [1996,eng] 50-6266

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- Thrusting and debris entrainment in a surging glacier: Bakanin-breen, Svalbard. Hambrey, M.J., et al. [1996,eng] 50-6267
- Glacier surveys**
- Alpine base for glacier-regime studies in Uzbekistan. Konov-alov, V.G., [1993,eng] 50-6343
- Alpine glaciers in the Little Ice Age. Zumbühl, H.J., et al. [1988,ger] 50-3397
- Analysis of morphological characteristics of regions of glaciation. Vinogradov, O.N., et al. [1972,rus] 50-547
- Annual air-temperature measurement and ablation estimate at Moreno Glacier, Patagonia. Takeuchi, Y., et al. [1996,eng] 50-5512
- Annual net balance of North Cascade glaciers, 1984-94. Pelto, M.S., [1996,eng] 50-4886
- Annual report 1995. National Snow and Ice Data Center. World Data Center-A for Glaciology. [1995,eng] 50-4604
- Areal extent and frontal elevations of Swiss glaciers, 1876-1957. Mercanton, P.L., [1958,eng] 50-5744
- Asian glacier ice flow and mass continuity. Cherkasov, P.A., et al. [1996,eng] 50-6057
- Basal ice facies and their formation in the western Alps. Hubbard, B., et al. [1995,eng] 50-2805
- Basic features of glacial landforms in the Minshan. Tang, B.X., et al. [1994,eng] 50-4783
- Bering glacier resumes its surge. Molnia, B.F., [1995,eng] 50-3356
- Bibliography on the hydrology of the Himalaya-Karakoram region. Young, G.J., et al. [1996,eng] 50-5273
- Biennial report 1993-1994. Alaska. University. Geophysical Institute. [1995,eng] 50-2450
- Characteristics of dynamics and ablation of glaciers in Patagonia. Naruse, R., [1995,jpn] 50-1173
- Characteristics of the glaciation of the Alay mountain system. Suslov, V.F., [1973,rus] 50-427
- Cheap, quick and safe way of surveying glaciers. Wright, J.W., et al. [1995,eng] 50-2995
- Climatic controls on glacier mass balance in Glacier Bay. Hunter, L.E., et al. [1995,eng] 50-3737
- Climatological interpretation of a firn pollen profile. Ambach, W., et al. [1967,ger] 50-5746
- Controls on glacier surging in Svalbard. Hamilton, G.S., et al. [1996,eng] 50-4900
- Cryospheric observing systems and data management. Barry, R.G., [1994,eng] 50-3415
- Current and ancient glaciation in the Chivshuri River basin (central range of the Caucasus). Gobedzhishvili, R.G., [1972,rus] 50-531
- Dielectric properties and microwave remote sensing of snow and ice. Matsuoka, T., et al. [1995,jpn] 50-3511
- Digital enhancement of ground probing radar data. Rees, H.V., et al. [1992,eng] 50-66
- Distribution and morphological types of recent glaciers in Mount Xixia Bangma region. Shi, Y.F., et al. [1982,chi] 50-6595
- Distribution, growth, and variation of glaciers in the Kunlun Mountains. Zhang, Z.S., et al. [1986,chi] 50-1989
- Dynamic response of high arctic glaciers to global warming and their contribution to sea-level rise. Lam, J.K.W., et al. [1993,eng] 50-6618
- Effect of sedimentation on the advance of a fjord-type glacier. Moryka, R.J., et al. [1995,eng] 50-3736
- Elevation change of the Greenland ice sheet from satellite altimetry. Wingham, D.J., [1995,eng] 50-5237
- Equilibrium zone on polar glaciers. Adams, W.P., et al. [1995,eng] 50-3126
- ERS-1 altimetry on the Greenland ice sheet: preliminary investigations of annual variations. Andersen, O.B., [1994,eng] 50-5033
- Establishment of the GEN Automatic Weather Station (AWS) in Khumbu region, Nepal Himalayas. Ueno, K., et al. [1996,eng] 50-5511
- Evolution conditions of recent glacier in Mount Xixia Bangma region. Xie, Z.C., et al. [1982,chi] 50-6596
- Glacial dynamics, material transfer and sedimentation in Spitsbergen. Sollid, J.L., et al. [1994,eng] 50-1585
- Glacial fluctuations in New Zealand determined from snowline. Chinn, T.J.H., [1995,eng] 50-79
- Glacial processes, sediments, landforms, and stratigraphy at Myrdalsjökull. Krüger, J., [1994,eng] 50-166
- Glacial-hydrological studies of the Syr Darya basin. Kamalov, B.A., [1973,rus] 50-426
- Glacier fluctuations in the Mongun-Taiga Mountains of Tuva. Xie, Z.C., et al. [1995,chi] 50-5617
- Glacier mass balances of Taylor Valley. Fountain, A.G., et al. [1994,eng] 50-3870
- Glacier process studies at Burroughs Glacier. Mickelson, D.M., et al. [1995,eng] 50-3738
- Glacier properties on Mt. Qogir, Karakorum. Qin, D.H., et al. [1994,eng] 50-1538
- Glacier resources and distributive characteristics in the Central Asia Tianshan Mountains. Liu, C.H., [1995,chi] 50-5630
- Glacier resources in the Karakorum-Kunlun Mts. and their utilization. Su, Z., [1992,chi] 50-1489
- Glacier variations 1930-1960, 1960-1990, and 1991-1992. Sigurdsson, O., [1993,ice] 50-4773
- Glaciers and glaciation in Glacier National Park, Montana. Carrara, P.E., [1993,eng] 50-4795
- Glaciers in the high Arctic and recent environmental change. Dowdeswell, J.A., [1995,eng] 50-5236
- Glaciers of the Swiss Alps 1975/76 and 1976/77. Kasser, P., et al. [1983,ger] 50-3845

- Glaciers of the Swiss Alps 1977/78 and 1978/79. Kasser, P., et al. [1986,ger] 50-3846
- Glacio-meteorological and isotopic studies along the EGIG line, central Greenland. Fischer, H., et al. [1995,eng] 50-1873
- Glaciological research in Hidden Valley, Mukut Himal in 1994. Fujii, Y., et al. [1996,eng] 50-5510
- Glaciological station in Swedish Lapland. Schytt, V., [1962,swe] 50-3944
- Glaciological studies in the high central Andes using digital processing of satellite images. Llorens, R.E., et al. [1995,eng] 50-3339
- Glaciological studies on Nelson Island, South Shetland Islands, Antarctica. Ren, J.W., et al. [1995,eng] 50-460
- Glaciology and glacial geomorphology of fjords in Spitsbergen. King, L., et al. [1994,ger] 50-1586
- Greenland ice sheet thickness changes measured by laser altimetry. Thomas, R., et al. [1993,eng] 50-4803
- Ground penetrating radar. Pilon, J.A., ed. [1992,eng] 50-54
- Helicopter-borne alpine glacier surveys using short pulse radar. Arcone, S.A., et al. [1992,eng] 50-55
- Holocene variations of Ameghino Glacier, southern Patagonia. Aniya, M., [1995,eng] 50-6081
- Hydrologic bibliography of Switzerland for 1994. Sevruck, B., ed. et al. [1994,ger] 50-4596
- Instructions for compilation and assemblage of data for a world glacier inventory. Müller, F., et al. [1977,eng] 50-5784
- International Glaciological Greenland Expedition, 1959/60. Hofmann, W., [1958,ger] 50-5745
- Japanese glaciological environmental studies in the arctic cryosphere. Watanabe, O., [1995,jpn] 50-3507
- Mass balance and runoff data at Gulkana Glacier, Alaska, 1992. March, R.S., et al. [1996,eng] 50-4603
- Mass balance of Kangwura (flat-top) Glacier on the north side of Mt. Xixiabangma, China. Liu, S.Y., et al. [1996,eng] 50-5514
- Mass balance on the Dongkernadi and Meikuang glaciers in 1992/1993. Pu, J.C., et al. [1995,chi] 50-5621
- Measuring a moving glacier. Sauber, J., et al. [1995,eng] 50-3355
- Methods for determining the snow line. Kerschner, H., [1990,ger] 50-1796
- Microprocessor based ice-radar system for surface profiling. Jacobel, R.W., et al. [1992,eng] 50-59
- Microwave emission from polar firn. West, R.D., [1994,eng] 50-662
- Microwave remote sensing of ice sheets by SAR interferometry. Nishio, F., [1995,jpn] 50-1175
- Moraines and ice scoured topographies in southern Patagonia. Yamada, S., [1992,eng] 50-380
- Morphometric characteristics of current glaciation in the mountains of Central Asia. Dolgushin, L.D., et al. [1972,rus] 50-528
- New data on current and ancient glaciation in the Sutar-Khayata Mountains. Vinogradov, O.N., et al. [1972,rus] 50-536
- North Water polynya studies in Baffin Bay, Apr. 1978-Dec. 1979. Müller, F., et al. [1980,eng] 50-3974
- On the glaciology of Edgeøya and Barentsøya, Svalbard. Dowdeswell, J.A., et al. [1995,eng] 50-4712
- Photogrammetry and geomorphology of high arctic push moraines. King, L., et al. [1993,eng] 50-1673
- Position measurements during the 1959 International Glaciological Expedition in Greenland. Hofmann, W., [1958,ger] 50-4632
- Present glaciation in the mountains of Central Asia. Konov-alov, G.I., [1972,rus] 50-556
- Progress in glaciology and Quaternary glaciation research in China since 1978. Shi, Y.F., et al. [1995,eng] 50-4510
- Quaternary glaciations in the eastern and central Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4776
- Radar investigations of firn structures and crevasses. Glover, J.M., et al. [1992,eng] 50-58
- Radiation conditions on the Greenland ice sheet. Konzelmann, T., [1994,eng] 50-69
- Radiometric data and modeled snowpack conditions for Dye 2, Greenland. Mote, T.L., et al. [1996,eng] 50-4961
- Recent climate changes in southern Patagonia. Ibarzabal y Donangelo, T., et al. [1996,eng] 50-5513
- Recent fluctuations of glaciers in Kongsfjorden, Spitsbergen, Svalbard (79°N). Lefaucouner, B., [1992,eng] 50-3436
- Recent glacier fluctuations in inland Asia. Ageta, Y., [1995,jpn] 50-998
- Recent glacier fluctuations in the Himalaya and Karakorum. Yamada, T., et al. [1995,jpn] 50-1174
- Recent glacier variations in the Patagonia icefield. Aniya, M., et al. [1996,jpn] 50-3505
- Recent oscillations of the San Quintin and San Rafael glaciers, Patagonia Chile. Winchester, V., et al. [1996,eng] 50-5579
- Repeat photography and landscape change at Glacier Bay, 1879-1993. Lawrence, D.B., et al. [1995,eng] 50-3742
- Report of avalanche accident at Pangka in 1995, Khumbu region, Nepal. Yamada, T., et al. [1996,jpn] 50-4928
- Report of the Hokkaido University 3rd Alaska glacier survey, June 17-July 28, 1975. Higashi, A., [1976,jpn] 50-482
- Report on the Mount Xixia Bangma region scientific expedition, 1964. [1982,chi] 50-6593
- Report on World Glacier Inventory status—December 1978. Müller, F., et al. [1979,eng] 50-3790
- Reports on the Glaciological Survey of 1993. Armando, E., et al. [1994,ita] 50-3767

- Research work on the Kolka Glacier and other glaciers in Northern Ossetia in 1971. Rototae, K.P., et al. [1972,rus] 50-549
- Review of recent glacier variations in the Arctic. Kameda, T., [1995,jpn] 50-999
- Rowe Glacier—annual research report 1993. Scott, R.B., [1994,eng] 50-5547
- Runoff modeling of a debris-covered glacier in Nepal. Rana, B., et al. [1996,eng] 50-5509
- Seismic refraction soundings 1993 on rock glacier permafrost in north-western Svalbard. Wagner, S., [1995,eng] 50-851
- Short pulse radar soundings from glaciers of Peru and China. Thompson, L.G., [1992,eng] 50-67
- Snow cover and ice formation on the northern slope of Mount Xixia Bangma. Xie, Z.C., [1982,chi] 50-6597
- Snow in the Spanish Cordilleras. ERHIN Program. 1991/92. [1995,spa] 50-1691
- Snow stratigraphy and accumulation rate in the Lambert Glacier basin. Ren, J.W., et al. [1995,chi] 50-5640
- Statistical analysis of precipitation and air temperature in the southern Patagonia icefield. Peña, H., et al. [1992,eng] 50-381
- Straight line measurements of an open four-sided figure. Hofmann, W., [1958,ger] 50-4633
- Synoptic climatology of ablation on a New Zealand glacier. Hay, J.E., et al. [1988,eng] 50-2448
- Temperature conditions of the glaciers on the northern slope of Mount Xixia Bangma. Huang, M.H., [1982,chi] 50-6598
- Thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. Björnsson, H., et al. [1996,eng] 50-4888
- Thickness and ablation measurements of Fremont Glacier, Wyoming. Nafiz, D.L., et al. [1993,eng] 50-4796
- Thickness of Valfurva glaciers measured by vertical electrical probing. Guglielmin, M., et al. [1995,ita] 50-2601
- Tian Shan rock glaciers and periglacial processes. Cui, Z.J., et al. [1989,chi] 50-1355
- Topographic controls on Norwegian Holocene glaciers fluctuations. Aa, A.R., [1996,eng] 50-4374
- Topographic mapping of Aletsch Glacier. Finsterwalder, R., [1961,ger] 50-5740
- Variations of Upsala Glacier in southern Patagonia since the late Holocene to the present. Malagnino, E., et al. [1992,eng] 50-379
- Velocity measurement of glacial flow with aerial photogrammetry. Hofmann, W., [1958,ger] 50-5078
- Venero's glaciers. Zanon, G., [1990,ita] 50-861
- Water balance in the Patagonia icefield. Escobar, F., et al. [1992,eng] 50-382
- Water, ice, and meteorological measurements, South Cascade Glacier, 1994. Krimmel, R.M., [1995,eng] 50-53
- Glacier thickness**
- Analysis of interference effects on surface-impedance mapping of glacier thickness. Thiel, D.V., et al. [1996,eng] 50-4889
- Areal extent and frontal elevations of Swiss glaciers, 1876-1957. Mercanton, P.L., [1958,eng] 50-5744
- Behavior of the East Antarctic ice sheet as deduced from a coupled GCM/ice-sheet model. Verbitskii, M.I.A., et al. [1995,eng] 50-4538
- Digital enhancement of ground probing radar data. Rees, H.V., et al. [1992,eng] 50-66
- Elevation change of the Greenland ice sheet from satellite altimetry. Wingham, D.J., [1995,eng] 50-5237
- Glacial reboots of the British Isles—III: constraints on mantle viscosity. Lambeck, K., et al. [1996,eng] 50-4737
- Greenland ice sheet thickness changes measured by laser altimetry. Thomas, R., et al. [1993,eng] 50-4803
- Ground penetrating radar. Pilon, J.A., ed. [1992,eng] 50-54
- Helicopter-borne alpine glacier surveys using short pulse radar. Arcone, S.A., et al. [1992,eng] 50-55
- INACH expedition to Patriot Hills, Nov.-Dec. 1995. Casassa, G., [1996,spa] 50-5802
- Low-order model of the Heinrich event cycle. MacAyeal, D.R., [1993,eng] 50-2868
- Mass balance and runoff data at Gulkana Glacier, Alaska, 1992. March, R.S., et al. [1996,eng] 50-4603
- Microprocessor based ice-radar system for surface profiling. Jacobel, R.W., et al. [1992,eng] 50-59
- Microwave remote sensing of ice sheets by SAR interferometry. Nishio, F., [1995,jpn] 50-1175
- Model of Greenland and antarctic ice sheet thickness variations. Verbitskii, M.I.A., et al. [1995,eng] 50-642
- Numerical simulation of Shirase Glacier. Pattyn, F., et al. [1995,eng] 50-2578
- On the glaciology of Edgeøya and Barentsøya, Svalbard. Dowdeswell, J.A., et al. [1995,eng] 50-4712
- Pleistocene glacier thicknesses inferred from electron microscopy of till microtextures. Mahaney, W.C., [1995,eng] 50-3365
- Present glaciation in the mountains of Central Asia. Konov-alov, G.I., [1972,rus] 50-556
- Quiescent-phase evolution of a surge-type glacier: Black Rapids Glacier, Alaska, U.S.A. Heinrichs, T.A., et al. [1996,eng] 50-4896
- Radar investigations of firn structures and crevasses. Glover, J.M., et al. [1992,eng] 50-58
- Recent fluctuations of glaciers in Kongsfjorden, Spitsbergen, Svalbard (79°N). Lefaucouner, B., [1992,eng] 50-3436
- Relevance of ice thickness measurements to Alaskan glacier variations. Nolan, M., et al. [1995,eng] 50-1875

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Glaciology

- Seismic refraction soundings 1993 on rock glacier permafrost in north-western Svalbard. Wagner, S., [1995,eng] 50-851
- Short pulse radar soundings from glaciers of Peru and China. Thompson, L.G., [1992,eng] 50-67
- Snow cover and ice formation on the northern slope of Mount Xixia Bangma. Xie, Z.C., [1982,chi] 50-6597
- Statistical parameters influencing mapping of subglacial topography. Herzfeld, U.C., et al. [1993,eng] 50-1033
- Subglacial topography in the Ser Rondane Mountains. Pattyn, F., et al. [1995,eng] 50-660
- Thickness and ablation measurements of Fremont Glacier, Wyoming. Naftz, D.L., et al. [1993,eng] 50-4796
- Thickness of Valfurva glaciers measured by vertical electrical probing. Guglielmin, M., et al. [1995,ita] 50-2601
- Vertical motion and ice thickness variation in western North America. Trupin, A.S., et al. [1996,eng] 50-3068
- See [also]: Ice cover thickness
- Glacier tongues**
- Changes in ice volume of the Fedchenko Glacier over three decades (1928-1958). Dorofeev, I.G., [1972,rus] 50-548
- Climatological significance of moraine ridges in Iceland. Krüger, J., [1995,eng] 50-2858
- Dynamics of David Glacier and its floating Drygalski Ice Tongue. Frezzotti, M., [1994,ita] 50-2824
- Glacioecologic process at Svalbard. Hambrey, M.J., et al. [1995,eng] 50-6559
- Ice flow vectors on the debris-mantled Tasman Glacier, 1957-1986. Kirkbride, M., [1995,eng] 50-2717
- Morphometric characteristics of current glaciation in the mountains of Central Asia. Dolgushin, L.D., et al. [1972,rus] 50-528
- On the glaciology of Edgøya and Barentsøya, Svalbard. Dowdeswell, J.A., et al. [1995,eng] 50-4712
- Thrusting and debris entrainment in a surging glacier: Bakaninbreen, Svalbard. Hambrey, M.J., et al. [1996,eng] 50-6267
- Glacier variations**
- See [also]: Glacier oscillation
- Glaciers**
- Climate change impacts on glaciers and permafrost. Haeblerli, W., [1995,eng] 50-1012
- Climatic conditions of East Grönfjord Glacier. Brázdil, R., et al. [1989,eng] 50-2907
- Current problems in the Aral Sea and prospects for their solutions. Tsytarín, A.G., et al. [1991,rus] 50-731
- Development of fluvial system of the Dunder Basin (Western Spitsbergen). Harasimiuk, M., et al. [1993,eng] 50-2201
- Dynamic response of high arctic glaciers to global warming and their contribution to sea-level rise. Lam, J.K.W., et al. [1995,eng] 50-6618
- Dynamics of David Glacier and its floating Drygalski Ice Tongue. Frezzotti, M., [1994,ita] 50-2824
- Glacial geology: how ice shapes the land. Erickson, J., [1996,eng] 50-3555
- Glaciation of the Upper Koksá River in the mid-19th century. Glazyrin, G.E., et al. [1991,rus] 50-14
- Glacier geophysics at Taylor Dome: year 4. Waddington, E.D., et al. [1994,eng] 50-1899
- Glaciers. Meier, M.F., [1996,eng] 50-4983
- Glaciers: a water resource. Meier, M.F., et al. [1995,eng] 50-3801
- Internal drainage of the Werenskiöld and Torell glaciers, 1888. Řehák, J., et al. [1989,cze] 50-2920
- Isotopic studies on glaciers of the Institute of Geology, Estonian Academy of Sciences, on Spitsbergen. Martma, T., et al. [1989,eng] 50-2913
- Melting rates of brash ice in Arthur Harbor. Smith, N.D., et al. [1994,eng] 50-2222
- On favorable and unfavorable properties of continental climates for glaciation. Tronov, M.V., [1973,rus] 50-422
- Outflow from the glacial river of the Werenskiöld Glacier and from Fuglebekken. Leszkiewicz, J., et al. [1989,pol] 50-2921
- Pollution of natural ice in the Arctic and its indications. Ivanov, A.V., [1989,rus] 50-2301
- Quartz grain in the glacier and periglacial environment of Oscar II Land. Kowalkowski, A., et al. [1989,pol] 50-2900
- Questions in the application of the actualism principle in glaciology. Tronov, M.V., [1972,rus] 50-538
- Sandbanks in river beds in the foreground of Hörbye Glacier. Spitsbergen. Rachlewicz, G., [1989,pol] 50-2894
- Veneto's glaciers. Zanon, G., [1990,ita] 50-861
- Vertical temperature gradient of the air in the high mountains of Central Asia. Davidovich, N.V., [1972,rus] 50-534
- See [also]: Cirque glaciers; Mountain glaciers; Rock glaciers
- Glaciology**
- 20th-century glacial-marine sedimentation in Vitus Lake, Bering Glacier, Alaska, U.S.A. Molnia, B.F., et al. [1996,eng] 50-6262
- Abraded rock landforms (whalebacks) developed under ice streams in mountain areas. Evans, I.S., [1996,eng] 50-6234
- Alaskan glacier basal ice deformation. Hart, J.K., [1995,eng] 50-1882
- Algorithm modeling stress gradients in grounded glaciers. Blatter, H., [1995,eng] 50-454
- Alpine base for glacier-regime studies in Uzbekistan. Konov-alov, V.G., [1993,eng] 50-6343
- Analysis of interference effects on surface-impedance mapping of glacier thickness. Thiel, D.V., et al. [1996,eng] 50-4889
- Analytical modeling of glacier dynamics. Bahr, D.B., [1996,eng] 50-5023
- Annual net balance of North Cascade glaciers, 1984-94. Pelto, M.S., [1996,eng] 50-4886
- Antarctic journal of the United States, Vol.30, No.1-4. U.S. National Science Foundation, [1995,eng] 50-6499
- Antarctic snow and ice sciences glossary. Japanese Society of Snow and Ice. Polar Snow and Ice Branch Committee (Nihon seppyo gakkai Kyokuchi seppyo bunkakai iinkai), [1982,jpn] 50-339
- Antarctic Walk Environmental Research Expedition, 1991-1993. Yoshikawa, K., ed. et al. [1995,eng] 50-4381
- Arctic Centre news, 1993, No.2. [1993,eng] 50-3598
- Arctic science, engineering, and education—directory of awards: fiscal year 1994. United States. National Science Foundation, [1994,eng] 50-1553
- Basal debris entrainment of Canadian arctic glaciers. Zdanowicz, C.M., et al. [1996,eng] 50-6247
- Basal friction of Ice Stream E, West Antarctica. MacAyeal, D.R., et al. [1995,eng] 50-448
- Bedrock topographic effects on subglacial erosion. Rea, B.R., et al. [1996,eng] 50-6249
- Block moraine formation of antarctic glaciers. Fitzsimons, S.J., [1996,eng] 50-6242
- Borehole video analysis of subglacial flow and structure. Harper, J.T., et al. [1995,eng] 50-1100
- Case for cold-base continental ice sheets—a transient thermal model. Heine, J.T., et al. [1996,eng] 50-4890
- Cavities and the effective pressure between abrading clasts and bedrock. Hindmarsh, R.C.A., [1996,eng] 50-6237
- Characteristics of basal ice at Engabreen, northern Norway. Jansson, P., et al. [1996,eng] 50-6248
- Characteristics of tide-water calving at Glacier San Rafael, Chile. Warren, C.R., et al. [1995,eng] 50-450
- Cheap, quick and safe way of surveying glaciers. Wright, J.W., et al. [1995,eng] 50-2995
- Comments on paper by González Suárez et al. Prochoso, M., et al. [1995,eng] 50-463
- Comments on the use of chemically based mixing models in glacier hydrology. Sharp, M., et al. [1995,eng] 50-447
- Controls on glacier surging in Svalbard. Hamilton, G.S., et al. [1996,eng] 50-4900
- Degree-day glacier mass balance modelling. Jóhannesson, T., et al. [1995,eng] 50-455
- Dry-flowing avalanche run-up and run-out. McClung, D.M., et al. [1995,eng] 50-456
- Earth Sciences. X ItaliAntarctic Expedition, 1994-95: field data reports. Italian Antarctic Research Programme, [1995,eng] 50-4390
- Effects of moraine-bank sediment budgets on valley glacier stability. Hunter, L.E., et al. [1996,eng] 50-6263
- Energy balance model for a small valley glacier, pt.1. Arnold, N.S., et al. [1996,eng] 50-4893
- Englacial drainage influence on sediment transport pathways. Kirkbride, M., et al. [1996,eng] 50-6255
- Environment and research in Greenland and Jameson Land. Di Cesare, F., et al. [1994,ita] 50-2819
- Erosion rates and sediment yields of glaciers. Bogen, J., [1996,eng] 50-6239
- Estimates of Greenland atmospheric impurity variations during deglaciation. Alley, R.B., et al. [1995,eng] 50-1872
- Fifty years of scientific research at the Chair of Cryolithology and Glaciology (1945-1995). Voikovskii, K.F., et al. [1995,rus] 50-4110
- Flux of debris transported by ice at three Alaskan tidewater glaciers. Hunter, L.E., et al. [1996,eng] 50-4897
- Fracture toughness of ice and firn determined from the modified ring test. Fisher, M.P., et al. [1995,eng] 50-458
- Geology and mining in Svalbard. Cipitelli, G., [1994,ita] 50-2820
- Glacial cirque formation in northern Scandinavia. Richardson, C., et al. [1996,eng] 50-6246
- Glacial erosion as a consequence of subglacial sediment deformation. Boulton, G.S., [1996,eng] 50-4891
- Glacial quarrying: a simple theoretical model. Hallet, B., [1996,eng] 50-6233
- Glacial-ice fragments in antarctic sea ice. Haas, C., et al. [1995,eng] 50-464
- Glacier properties on Mt. Qogir, Karakorum. Qin, D.H., et al. [1994,eng] 50-1538
- Glaciers, snow and ice—dictionary of glaciology, snow and avalanche research in Switzerland. Ziehr, W., ed. [1993,ger] 50-3385
- Glacio-meteorological and isotopic studies along the EGG line, central Greenland. Fischer, H., et al. [1995,eng] 50-1873
- Glaciological research in Svalbard: a bibliography. Macqueen, A.D., [1993,eng] 50-5208
- Glaciological studies on Nelson Island, South Shetland Islands, Antarctica. Ren, J.W., et al. [1995,eng] 50-460
- Glaciology of the McMurdo Ice Shelf in the area of air operations. Klokov, V., et al. [1995,eng] 50-1194
- Greenland Ice Sheet. Alley, R.B., [1996,eng] 50-4986
- Heat flux over a melting Greenland ice sheet. Braithwaite, R.J., [1995,eng] 50-1877
- Hydraulic run-away: a mechanism for thermally regulated surges of ice sheets. Fowler, A.C., et al. [1995,eng] 50-1876
- Ice streams in Antarctica: transverse instability of gravity driven flow. Minale, M., et al. [1996,eng] 50-3722
- Implications of glacial hydrology and flow for subglacial drainage dynamics. Raymond, C.F., et al. [1995,eng] 50-451
- Interaction between subglacial sediment and meltwater. Collins, D.N., [1996,eng] 50-6265
- Internal and basal ice changes near the grounding line derived from radio-echo sounding. Uratsuka, S., et al. [1996,eng] 50-4895
- Is erosion by deforming subglacial sediments significant? (Toward till continuity). Cuffey, K., et al. [1996,eng] 50-6235
- Japanese antarctic activities for 1995-1996. Tokyo. National Institute of Polar Research, [1996,eng] 50-2608
- JARE-33 activities in summer 1991-1992 and winter 1992. Fukuchi, M., et al. [1996,jpn] 50-6348
- Jökulhlup from Katla in 1918. Tómasson, H., [1996,eng] 50-6268
- Laboratory study of sediment deformation: stress heterogeneity and grain-size evolution. Iverson, N.R., et al. [1996,eng] 50-6256
- Laurentide ice sheet oscillations as cause of Atlantic Ocean Heinrich events. MacAyeal, D.R., [1993,eng] 50-2869
- Lumped-element model for subglacial transport of solute and suspended sediment. Clarke, G.K.C., [1996,eng] 50-6254
- Making an ice core. Kopaska-Merkel, D.C., [1995,eng] 50-1150
- Mapping tide-water glacier dynamics in East Greenland using Landsat data. Dwyer, J.L., [1995,eng] 50-1879
- Marine record of the Russell Fjord outburst flood, Alaska. U.S.A. Cowan, E.A., et al. [1996,eng] 50-6260
- Mass exchange between meltwater streams and proglacial deposits. Holmlund, P., et al. [1996,eng] 50-6241
- Measurement of ice-sheet topography using satellite-radar interferometry. Joughin, I., et al. [1996,eng] 50-4887
- Measuring geophysical parameters of the Greenland ice sheet using airborne radar altimetry. Ferraro, E.J., et al. [1995,eng] 50-1881
- Microwave emission from density-stratified antarctic firn at 6 cm wavelength. West, R.D., et al. [1996,eng] 50-4892
- National Antarctic Research Program. Cervellati, R., [1994,ita] 50-2823
- New geography of the polar regions: synthesis and perspectives. Orombelli, G., ed. et al. Atti del Convegno della Società Geografica Italiana, Roma, 21-22 Novembre 1991 (Proceedings of the Italian Geographical Society Conference, Rome, 21-22 November 1991), [1994,ita] 50-2817
- Numerical modelling of ice sheet fluctuation in the Russian Arctic. Siegert, M.J., et al. [1995,eng] 50-1800
- Observations of pressure effects on the creep of ice single crystals. Cole, D.M., [1996,eng] 50-4901
- Observations of the grounding-line area at a floating glacier terminus. Powell, R.D., et al. [1996,eng] 50-6264
- Ocean bottom trenching by an Icelandic glacier. Björnsson, H., [1996,eng] 50-6252
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995,eng] 50-1866
- On the sedimentological character of alpine basal ice facies. Hubbard, B., et al. [1996,eng] 50-6259
- Origin of till sequences beneath mid-latitude ice sheets. Boulton, G.S., [1996,eng] 50-6243
- Paleogeology's grand unsolved problem. Grosvald, M.G., et al. [1995,eng] 50-453
- Paleogeology: subject and methods, tasks and achievements. Avsiuk, G.A., et al. [1972,rus] 50-537
- Permafrost influence on glacier sediment deformation. Eizelmüller, B., et al. [1996,eng] 50-6240
- Position measurements during the 1959 International Glaciological Expedition in Greenland. Hofmann, W., [1958,ger] 50-4632
- Proceedings of the NIPR Symposium on Polar Meteorology and Glaciology, No.9. Watanabe, O., ed. NIPR Symposium on Polar Meteorology and Glaciology, 17th, Tokyo, July 13-14, 1994, [1995,eng] 50-2574
- Proceedings. International Symposium on Glacial Erosion and Sedimentation, Reykjavik, Iceland, Aug. 20-25, 1995, [1996,eng] 50-6232
- Quiescent-phase evolution of a surge-type glacier: Black Rapids Glacier, Alaska, U.S.A. Heinrichs, T.A., et al. [1996,eng] 50-4896
- Radiative fluxes and their impact on the energy balance of the Greenland ice sheet. Konzelmann, T., et al. [1995,eng] 50-1871
- Recent responses of Chilean glaciers to climatic changes. Holmlund, P., et al. [1995,eng] 50-1868
- Regional-scale meltwater erosion and deposition patterns, northern Quebec, Canada. Brennand, T.A., et al. [1996,eng] 50-6244
- Relevance of glacial bed debris to glacial mechanics. Gow, A.J., et al. [1996,eng] 50-6251
- Relevance of ice thickness measurements to Alaskan glacier variations. Nolan, M., et al. [1995,eng] 50-1875
- Report of "Workshop on the Glaciological Technology in Polar Regions". Kamiyama, K., [1995,jpn] 50-661
- Report on the 30th Soviet Antarctic Expedition. Sovetskaja antarkticheskaia ekspeditsiia, [1992,rus] 50-144
- Report on World Glacier Inventory status—December 1978. Müller, F., et al. [1979,eng] 50-3790
- Resolution of the working session of the Glaciology Section, 3-4 April 1972. [1972,rus] 50-521
- Role of sediment transport in the mechanics of jökulhlups. Fowler, A.C., et al. [1996,eng] 50-6269
- Rowe Glacier—annual research report 1993. Scott, R.B., [1994,eng] 50-5547
- Sampling-rate effects on the properties of dye breakthrough curves from glaciers. Nienow, P.W., et al. [1996,eng] 50-4903

Glaze

Global change

- Satellite imagery of the onset of streaming flow of ice streams C and D, West Antarctica. Hodge, S.M., et al. [1996,eng] 50-4301
- Scientist joins elite group. Darling, M., [1996,eng] 50-4620
- Seasonal variations in arctic glacial sediment transport. Hodgkins, R., [1996,eng] 50-6253
- Sediment discharge from an Alaskan surging glacier. Merrand, Y., et al. [1996,eng] 50-6266
- Seismic investigation of glacial tunnel channels. Pugin, A., et al. [1996,eng] 50-6257
- Shear margins in glaciers and ice sheets. Raymond, C., [1996,eng] 50-4894
- Sixtieth birthday of Vladimir Mikhailovich Kotlyakov. Grosval'd, M.G., et al. [1992,eng] 50-3431
- Sliding of glacial till over bedrock. Hindmarsh, R.C.A., [1996,eng] 50-6238
- Small ice cap instability in the presence of fluctuations. Lee, W.H., et al. [1995,eng] 50-641
- Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces. Zibordi, G., et al. [1996,eng] 50-5467
- Source of errors in surface area measurements of glacier mass balance. Jacobsen, F.M., et al. [1995,eng] 50-1865
- Stable isotopes as hydrologic tracers in South Cascade Glacier. Vaughn, B.H., [1994,eng] 50-5546
- Straight line measurements of an open four-sided figure. Hofmann, W., [1958,ger] 50-4633
- Stress interaction between multiple crevasses in glacier ice. Sassolas, C., et al. [1996,eng] 50-5464
- Subglacial chemical erosion in a Swiss mountain glacier. Brown, G.H., et al. [1996,eng] 50-6236
- Subglacial hydrology of a Swiss glacier. Hubbard, B.P., et al. [1995,eng] 50-1878
- Subglacial ice accretion in an Alaskan glacier. Strasser, J.C., et al. [1996,eng] 50-6250
- Subglacial lake burst variations in Iceland. Gudmundsson, M.T., et al. [1995,eng] 50-449
- Submersible remote controlled vehicles for glacier-ocean-sediment study. Dowdeswell, J.A., et al. [1996,eng] 50-4902
- Supraglacial debris transport over time. Whalley, W.B., et al. [1996,eng] 50-6258
- Supraglacial sediment accretion in Icelandic glaciers. Näslund, J.O., et al. [1996,eng] 50-4904
- Swedish Antarctic Research Programme, 1989/90: a cruise report. Reuterskiöld, M., [1992,eng] 50-1418
- Theory of lattice Boltzmann simulations of glacier flow. Bahr, D.B., et al. [1995,eng] 50-1883
- Thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. Björnson, H., et al. [1996,eng] 50-4888
- Thrusting and debris entrainment in a surging glacier: Bakaninbreen, Svalbard. Hambrey, M.J., et al. [1996,eng] 50-6267
- Till provenance studies of Idaho paleoglaciators. Brugger, K.A., [1996,eng] 50-6245
- Topographic origin for double-ridge features in visible imagery of ice divides in Antarctica. Goodwin, A.H., et al. [1995,eng] 50-1870
- Towed geophone system for use in snow-covered terrain. King, E.C., et al. [1996,eng] 50-6225
- Tracer experiments to determine subglacial pressurized flow in Storglaciären. Kohler, J., [1995,eng] 50-445
- Triaxial experiments on iceberg and glacier ice. Gagnon, R.E., et al. [1995,eng] 50-1874
- Velocity measurement of glacial flow with aerial photogrammetry. Hofmann, W., [1958,ger] 50-5078
- Water pressure and basal sliding on Storglaciären, northern Sweden. Jansson, P., [1995,eng] 50-446
- Working session of the Glaciology Section in April 1971. Golodkovskaja, N.A., et al. [1972,rus] 50-532
- Working session of the Glaciology Section in April 1972. Davidovich, N.V., et al. [1972,rus] 50-520
- Glaze**
- Artificial rime-covering and discharge test of long insulator strings. Su, F.H., et al. [1996,eng] 50-5390
- Atmospheric ice ablation processes on Mt. Equinox, Vermont. U.S.A. Ryerson, C.C., et al. [1996,eng] 50-5375
- Characteristics of surface roughness associated with leading-edge ice accretion. Shin, J.W., [1996,eng] 50-4407
- Comparison of glaze and in-cloud icing events on a test line. Druet, J., et al. [1995,eng] 50-2951
- Computer model of glaze accretion on wires. Draganou, G., et al. [1996,eng] 50-5160
- Electrical wire. Belash, I.P., et al. [1992,rus] 50-1907
- Evaluation of winter vehicle traction with different types of tires. Lu, J.J., et al. [1995,eng] 50-5709
- Fifteen years field trials of galloping controls for overhead power lines. Havard, D.G., [1996,eng] 50-5382
- Ice formation on the guywires of Hydro-Québec telecommunications towers. Gastonguay, L., et al. [1996,eng] 50-5402
- Ice risk levels—a practical approach to design. Støttrup-Andersen, U., [1996,eng] 50-5354
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1995,eng] 50-2954
- Innovations on a quartz crystal microbalance frost-point hygrometer. Kaluzhny, M., et al. [1995,eng] 50-414
- Methods to estimate ice accumulations on surface structures. Schaub, W.R., Jr., [1996,eng] 50-5360
- Modeling power line icing in freezing precipitation. Makkonen, L., [1996,eng] 50-5362
- Numerical study of iced conductors aerodynamics. Ilinca, A., et al. [1996,eng] 50-5336
- Rapid glaciation of slightly supercooled cumulus clouds. Mason, B.J., [1996,eng] 50-5010
- Some effects of conductor twisting on galloping. Richardson, A.S., Jr., [1980,eng] 50-3698
- Transmission line icing mechanism and study of new de-icing techniques. Jiang, X.L., et al. [1996,eng] 50-5368
- See [also]: Hoarfrost
- Global change**
- 10,000-years dynamics of limnic ecosystems and climatic change. Salonen, V.-P., et al. [1994,eng] 50-3182
- Approaches to the establishment of future climate scenarios for the alpine region. Wanner, H., et al. [1995,eng] 50-1011
- Arctic and alpine biodiversity: patterns, causes and ecosystem consequences. [1995,eng] 50-3888
- Arctic haze phenomenon. Shaw, G.E., [1995,eng] 50-4569
- Arctic oceanography: marginal ice zones and continental shelves. Smith, W.O., Jr., ed. et al. [1995,eng] 50-1159
- Arctic research at San Diego State University. [1996,eng] 50-5573
- Arctic systems: natural environments, human actions, nonlinear processes. International Arctic Science Committee, [1995,eng] 50-5302
- Arctic vegetation types as response predictors to global change. Chapin, F.S., III, et al. [1996,eng] 50-6557
- Assessing sensitivities of forests to climate change. Fischlin, A., [1995,eng] 50-1018
- Atmospheric absorption of solar radiation due to ice clouds. Gautier, C., [1995,eng] 50-957
- Back to basics: world climatic types. Salmond, J., et al. [1996,eng] 50-3726
- Biomass burning recorded in the GISP2 ice core: a record from eastern Canada? Taylor, K.C., et al. [1996,eng] 50-4370
- Boreal forest catchments: research sites for global change at high latitudes. Slaughter, C.W., et al. [1995,eng] 50-767
- Buoys in the Arctic study heat exchange. Honjo, S.S., et al. [1996,eng] 50-6334
- Canadian contribution to the Paleoclimate Model Intercomparison Project (PMIP). Jetté, H., [1995,eng] 50-1449
- Causes and consequences of plant functional diversity in arctic ecosystems. Chapin, F.S., III, et al. [1995,eng] 50-3902
- Cenozoic Northern Hemisphere glaciations. Thiede, J., et al. [1995,eng] 50-5240
- Cenozoic plants and climates of the Arctic. Boulter, M.C., ed. et al. [1994,eng] 50-892
- Climate and ice-snow cover. Peng, G.B., et al. [1992,chi] 50-1168
- Climatic implications of ice microphysics. Liou, K.N., [1995,eng] 50-958
- Controls of canopy structure on snowmelt rates in the boreal forest. Metcalfe, R.A., et al. [1995,eng] 50-3130
- Correlation of Cenozoic dinoflagellate and pollen records. Hubbard, R.N.L.B., et al. [1994,eng] 50-897
- Cryospheric indices of global change. Barry, R.G., et al. [1994,eng] 50-4789
- Current status and prospects of ice age research. Liedtke, H., [1990,ger] 50-1783
- Current thermal regime of permafrost in Alaska and the predicted global warming. Osterkamp, T.E., et al. [1990,eng] 50-1663
- Degradation of the cryolithozone in Russia under global climatic warming. Ershov, E.D., et al. [1996,rus] 50-6840
- Desertification and climatic change from historical data. Yoshino, M., et al. [1991,jpn] 50-1437
- Dinoflagellate cysts and climate change through the Neogene. Harland, R., [1994,eng] 50-899
- Early Tertiary vegetation and paleoclimatology of arctic Canada. Basinger, J.F., et al. [1994,eng] 50-905
- Earth-gridded SSM/I data set for cryospheric studies and global change monitoring. Armstrong, R.L., et al. [1995,eng] 50-1963
- Effect of Eurasian snow cover on regional and global climate variations. Barnett, T.P., et al. [1993,eng] 50-6042
- Effect of orbital variations on past eolian deposits. Kutzbach, J.E., [1989,eng] 50-5410
- Effect of snow cover anomaly on global climate. Krenke, A.N., et al. [1995,rus] 50-3969
- Eocene continental climates and latitudinal temperature gradients. Greenwood, D.R., et al. [1995,eng] 50-1808
- Estimates of North American tundra ecosystem biomass. Gilmanov, T.G., et al. [1995,eng] 50-4864
- Finnish research programme on climate change; second progress report. Kanninen, M., ed. et al. [1994,eng] 50-3179
- First appearance of Himalayas and its relation to global climatic events. Xu, Q., [1992,chi] 50-1504
- Fossil flora of the Paleogene climatic optimum in north eastern Asia. Budantsev, L.I.U., [1994,eng] 50-912
- Glacial environments. Menzies, J., [1995,eng] 50-3581
- Glacial to modern changes in global river fluxes. Baker, V.R., [1994,eng] 50-1240
- Glaciers and global warming. Koerner, R.M., et al. [1995,eng] 50-5040
- Global change research at Glacier Bay National Park. Powell, R.D., [1995,eng] 50-3731
- Global climatic weathering on glacial time scales. Kump, L.R., et al. [1994,eng] 50-1239
- Global climate change adaptation: examples from Russian boreal forests. Dixon, R.K., et al. [1996,eng] 50-5056
- Global environmental change: the northern North Atlantic. Schäfer, P., et al. [1995,eng] 50-745
- Global glacial chronologies and causes of glaciation. Calkin, P.E., et al. [1995,eng] 50-3582
- Global sea level rise and glacial isostatic adjustment. Peltier, W.R., [1996,eng] 50-4310
- Global three-dimensional constituent fields derived from profile data. Douglass, A.R., et al. [1990,eng] 50-6018
- Global warming. Chandler, M.A., [1996,eng] 50-4984
- Greenhouse effect and the global environmental changes. Obrebska-Starkel, B., et al. [1991,pol] 50-5003
- Greenland ice core records and rapid climate change. Dowdeswell, J.A., et al. [1995,eng] 50-5239
- Greenland ice sheet in response to various climate scenarios. Calov, R., et al. [1996,eng] 50-6435
- Hemispheric climate relations revealed by bottom sediment/ice core correlations. Charles, C.D., et al. [1996,eng] 50-6632
- Heuristic model for sea level rise due to the melting of small glaciers. Wigley, T.M.L., et al. [1995,eng] 50-1215
- High-latitude forest ecophysiology during global warming. Kohlmaier, G.H., et al. [1995,eng] 50-771
- Impacts of climate change on mountain ecosystems: future research and monitoring needs. Guisan, A., et al. [1995,eng] 50-1020
- International Conference on Global Change and Arctic Terrestrial Ecosystems—recommendations. Arctic Global Change Conference, Oppdal, Norway, Aug. 21-26, 1993, [1993,eng] 50-3331
- International Conference on the Role of Polar Regions in Global Change. Weller, G.E., [1991,eng] 50-5438
- Late Cretaceous arctic plant fossils and high latitude climate. Herman, A.B., [1994,eng] 50-903
- Late Eocene-Oligocene dinoflagellate provincialism in the North Atlantic Ocean. Damassa, S.P., et al. [1994,eng] 50-898
- Long-term observations for monitoring of the cryosphere. Walsh, J.E., [1995,eng] 50-3350
- Meteor impact and the Cretaceous-Tertiary transition in arctic plant fossils. Spicer, R.A., et al. [1994,eng] 50-904
- Modelling the controls on boreal tree species range limits. Sykes, M.T., et al. [1995,eng] 50-770
- NSF: ocean sciences, arctic & global change research. Gross, M.G., [1991,eng] 50-719
- Paleo-ecophysiological studies on Cretaceous and tertiary fossil floras. Beerling, D.J., [1994,eng] 50-895
- Paleoclimatic atmospheric chemical changes inferred from fossil leaf density. Beerling, D.J., et al. [1995,eng] 50-6563
- Paleoclimatology of Kamchatka from Cenozoic plant and foraminifera fossils. Potianova, L.I., et al. [1994,eng] 50-900
- Permafrost and global warming: strategies of adaptation. Anisimov, O.A., et al. [1996,eng] 50-5057
- Plate tectonics and climate change in the Cenozoic. Eldholm, O., et al. [1994,eng] 50-896
- Pleistocene-Holocene fluxes are not the Earth's norm. Hay, W.W., [1994,eng] 50-1237
- Pliocene climates: the nature of the problem. Crowley, T.J., [1996,eng] 50-6624
- Possible responses of mountain vegetation to a global climatic change. Ozenda, P., et al. [1995,eng] 50-1017
- Potential ecological impacts of climate change in the Alps and Fennoscandian mountains. Guisan, A., ed. et al. [1995,eng] 50-1002
- Progress report on studies to explain the mechanisms of desertification. [1989,jpn] 50-2034
- Prospects for Polish studies in Antarctica. Birkenmajer, K., [1989,pol] 50-2877
- Qinghai-Xizang Plateau as a source region for climatic changes. Tang, M.C., et al. [1992,chi] 50-1479
- Quaternary insects and their environments. Elias, S.A., [1994,eng] 50-2009
- Radiocarbon balances of two Tibetan Lakes from 13,000 BP. Fontes, J.C., et al. [1993,eng] 50-5027
- Relation between the Asian monsoon, Asian snow coverage, and Okhotsk sea ice. Sekine, Y., et al. [1996,eng] 50-5896
- Resolved: the Arctic controls global climate change. Alley, R.B., [1995,eng] 50-1167
- Response of soil carbon to climate change. McGuire, A.D., et al. [1995,eng] 50-4866
- Results from the 1994 Boreal Ecosystem-Airborne Study (BOREAS). Sellers, P., et al. [1995,eng] 50-4574
- Review of Late Cretaceous floras and climates of arctic Russia. Herman, A.B., [1994,eng] 50-902
- SCAR report No.11, Feb. 1996. Scientific Committee on Antarctic Research, [1996,eng] 50-5803
- Scenarios of changes in the cryolithozone in Russia under global climatic warming. Velichko, A.A., et al. [1996,rus] 50-6839
- Scientific plan for a regional research programme in the Arctic on global change. International Arctic Science Committee (IASC), Oslo, Norway, [1994,eng] 50-1508
- Sea ice in the global climate system: requirements for an ocean observing system. Allison, I., et al. [1995,eng] 50-4248
- Shrinking of Quaternary lakes and environmental changes on the Tibetan Plateau. Zhao, Y.T., [1994,eng] 50-4781
- Small-scale physical processes in the Arctic Ocean. Padman, L., [1995,eng] 50-1162
- Snow and ice cover and climate sensitivity. Oerlemans, J., et al. [1995,eng] 50-3246
- Space data from scientific projects. Harries, J.E., [1991,eng] 50-4094
- Subglacial sediment deformation and rapid changes in the Laurentide Ice Sheet. Jenson, J.W., et al. [1996,eng] 50-5915
- Taymyr Peninsula vegetation response to climatic changes. Koskharova, V.L., [1995,eng] 50-4701
- Tertiary climate changes in the Russian Far East. Krassilov, V.A., [1994,eng] 50-901

Global warming

- Test for time series homogeneity of hail-event data in Serbia. Gburcik, P., et al. [1994,eng] 50-3318
- Towards a review of Tertiary palaeobotany in the boreal realm. Boulter, M.C., [1994,eng] 50-893
- Understanding the impact of climate change on mountain ecosystems: an overview. Guisan, A., et al. [1995,eng] 50-1003
- Global warming**
- 1990 arctic sea ice reduction related to snow cover minima. Serreze, M.C., et al. [1995,eng] 50-773
- 2xCO₂ experiment with prescribed changes in sea surface temperature. Mahfouf, J.-F., et al. [1992,eng] 50-226
- 6 ka BP reconstruction for Newfoundland from pollen records. Macpherson, J.B., [1995,eng] 50-1459
- Accumulation rates of carbon in mires in Finland and implications for climate change. Tolonen, K., et al. [1995,eng] 50-6078
- Alpine "Ice-man" and Holocene climatic change. Baroni, C., et al. [1996,eng] 50-6708
- Arctic 'greenhouse effect'. Blanchet, J.P., et al. [1994,eng] 50-5034
- Arctic and environmental change. Wadhams, P., ed. et al. [1995,eng] 50-5226
- Arctic dwarf shrub response to simulated climatic warming. Michelsen, A., et al. [1996,eng] 50-5770
- Arctic Flux Study: a regional view of trace gas release. Weller, G., et al. [1995,eng] 50-3809
- Arctic sea ice extent and thickness. Wadhams, P., [1995,eng] 50-5235
- Arctic terrestrial ecosystems and environmental change. Callaghan, T.V., et al. [1995,eng] 50-5232
- Assessing and responding to the effects of climate change on forest ecosystems. Spillhouse, D.L., [1996,eng] 50-4068
- Asymmetric diurnal temperature change in the alpine region. Weber, R.O., et al. [1994,eng] 50-4790
- Atmospheric ozone as a climate gas: general circulation model simulations. Wang, W.C., ed. et al. [1995,eng] 50-1771
- Behavior of the East Antarctic ice sheet as deduced from a coupled GCM/ice-sheet model. Verbitskii, M.I.A., et al. [1995,eng] 50-4538
- Boreal forest catchments: research sites for global change at high latitudes. Slaughter, C.W., et al. [1995,eng] 50-767
- Canadian contribution to the Paleoclimate Model Intercomparison Project (PMIP). Jetté, H., [1995,eng] 50-1449
- Chemistry of ozone in the upper troposphere and lower stratosphere. Ravishankara, A.R., [1995,eng] 50-1777
- Climate change and biological oceanography of the Arctic Ocean. Gradinger, R., [1995,eng] 50-5233
- Climate change and snow-cover duration in the Australian Alps. Whetton, P.H., et al. [1996,eng] 50-4751
- Climate change and water resources of watersheds in the Sierra Nevada. Pupacko, A., et al. [1992,eng] 50-3031
- Climate change, hydrology, and channel morphology of the Gunnison River. Parker, R.S., et al. [1992,eng] 50-3032
- Climate dynamics and global change. Lindzen, R.S., [1994,eng] 50-5242
- Climatic influences on Chinese water resources. Shi, Y.F., et al. [1995,eng] 50-4231
- Climatic trends in the Colorado-Big Thompson Project area. U.S. Bureau of Reclamation. Denver Office, Denver, CO. [1994,eng] 50-5007
- Climatic warming and the degradation of warm permafrost. Lunardini, V.J., [1996,eng] 50-6482
- Concurrent ozone and temperature trends derived from ozonesonde stations. Fortuin, J.P.F., et al. [1995,eng] 50-1774
- Connections between atmospheric ozone, the climate system and UV-B-radiation in the Arctic. Taalas, P., et al. [1995,eng] 50-1779
- Control of tundra methane emission by microbial oxidation. Whalen, S.C., et al. [1996,eng] 50-4850
- Current thermal regime of permafrost in Alaska and the predicted global warming. Osterkamp, T.E., et al. [1990,eng] 50-1663
- Danish lacustrine sediment evidence of paleoclimatological variability. Hammarlund, D., et al. [1996,eng] 50-5826
- Degradation of Arctic ice cap islands from climatic warming. Ignatieva, I.L., et al. [1993,rus] 50-883
- Degradation of the cryolithozone in Russia under global climatic warming. Ershov, E.D., et al. [1996,rus] 50-6840
- Detecting and monitoring snow cover variability. Barry, R.G., et al. [1995,eng] 50-3314
- Detection of climate change in the Arctic: an updated report. Ye, H.C., et al. [1994,eng] 50-3026
- Dynamic response of high arctic glaciers to global warming and their contribution to sea-level rise. Lam, J.K.W., et al. [1995,eng] 50-6618
- Eastern Canadian Arctic at ca. 6 ka BP: a time of transition. Williams, K.M., et al. [1995,eng] 50-1450
- Ecology and conservation management of cool temperate rain-forest in Tasmania. Brown, M.J., et al. [1996,eng] 50-4069
- Effect of climate warming on the Qinghai-Tibet Highway. China. Tong, C.J., et al. [1996,eng] 50-3830
- Effects of climate change on water supplies in mountainous snowmelt regions. Rango, A., [1995,eng] 50-6617
- Effects of global warming on building construction on permafrost. Khristalev, L.N., [1996,eng] 50-5861
- Energy balance of snow and partially snow covered areas in western Greenland. Harding, R.J., et al. [1995,eng] 50-5088
- Eocene continental climates and latitudinal temperature gradients. Greenwood, D.R., et al. [1995,eng] 50-1808
- Estimating soil water content during global climatic warming. Velichko, A.A., et al. [1995,rus] 50-4115

- Evidence of Holocene sea level rise from Nova Scotian bottom sediments. Scott, D.B., et al. [1995,eng] 50-4528
- Explore Antarctica. Crossley, L., [1995,eng] 50-230
- Forecasting the state of permafrost during climatic warming. Cherniad'ev, V.P., et al. [1993,rus] 50-4112
- Formation of the cryo-ecological segment in Central Yakutia. Fedorov, A.N., [1996,rus] 50-6843
- Freshwater impact on Hudson Bay ecosystems under sea ice. pt. 1. Ingram, R.G., et al. [1996,eng] 50-4019
- Freshwater impact on Hudson Bay ecosystems under sea ice. pt. 3. Fortier, L., et al. [1996,eng] 50-4021
- Frost damage to northern trees during climatic warming. Hänninen, H., [1996,eng] 50-6631
- GCM modeling of the stratospheric dynamics and its coupling with chemistry. Cariolle, D., et al. [1995,eng] 50-1773
- GCM study of the climatic effect of 1979-1992 ozone trend. Liang, X.Z., et al. [1995,eng] 50-1776
- Gelifluction rates as global change indicators. Kirkby, M.J., [1995,eng] 50-4195
- Glaciers and global warming. Koerner, R.M., et al. [1995,eng] 50-5040
- Glaciers in the high Arctic and recent environmental change. Dowdeswell, J.A., [1995,eng] 50-5236
- Glaciological research in Hidden Valley, Mukut Himal in 1994. Fujii, Y., et al. [1996,eng] 50-5510
- Global warming cuts no ice in Greenland. Gribbin, J., [1995,eng] 50-1966
- Global warming. Chandler, M.A., [1996,eng] 50-4984
- Growth response of mosses to simulated subarctic environmental change. Potter, J.A., et al. [1995,eng] 50-3860
- High-latitude climate change with an atmospheric coupled sea ice model. Washington, W.M., et al. [1996,eng] 50-6055
- High-latitude forest ecophysiology during global warming. Kohlmaier, G.H., et al. [1995,eng] 50-771
- High-latitude rainforests and associated ecosystems of the west coast of the Americas. Lawford, R.G., ed. et al. [1996,eng] 50-4060
- Hybrid model for predicting permafrost occurrence and thickness. Wright, J.F., [1995,eng] 50-5669
- Ice sheets, climate change and sea level. Drewry, D., [1996,eng] 50-3411
- Icy indicators of global warming. Denniston, D., [1993,eng] 50-3344
- Impact of atmospheric changes on alpine vegetation: the ecophysiological perspective. Körner, Ch., [1995,eng] 50-1014
- Impact of climate change on snow conditions in the French Alps. Martin, E., et al. [1995,eng] 50-4693
- Impact of global warming on tundra and forest ecosystems. Plösch, M., et al. [1995,eng] 50-4865
- Impacts of climate variability and change on Canadian wetlands. Woo, M.K., [1992,eng] 50-4805
- Impacts of increased winter snow cover on upland tundra vegetation: a case example. Scott, P.A., et al. [1995,eng] 50-3848
- Increasing CO₂, decreasing insolation, and initiation of ice sheets. Chu, S.P., [1994,eng] 50-671
- Late-Holocene glaciation and twentieth-century retreat, northeastern Brooks Range, Alaska. Evison, L.H., et al. [1996,eng] 50-4371
- Long-term observations for monitoring of the cryosphere. Walsh, J.E., [1995,eng] 50-3350
- Mass balance variations as surge controls of Norwegian glaciers. Dowdeswell, J.A., et al. [1995,eng] 50-4537
- Meltwater generation, infiltration and runoff from the Greenland ice sheet. Zou, J.H., [1993,eng] 50-699
- Model of effects of global warming of water balance of subarctic forest ecosystems. Kellomäki, S., et al. [1996,eng] 50-4750
- Modelling arctic climate change. Cattle, H., et al. [1995,eng] 50-5227
- Modelling the controls on boreal tree species range limits. Sykes, M.T., et al. [1995,eng] 50-770
- Modelling the redistribution of runoff caused by global warming. Martinec, J., et al. [1994,eng] 50-5202
- Mountain hemlock expansion in a subalpine ecosystem. Taylor, A.H., [1995,eng] 50-3321
- No evidence for extreme, long term warming in early Pliocene sediments of the Southern Ocean. Burckle, L.H., et al. [1996,eng] 50-6627
- Not yodelling but drowning. Edwards, R., [1995,eng] 50-1965
- Overview of the Arctic Ocean Expedition of 1991 (IAOE-91). Leck, C., et al. [1996,eng] 50-4312
- Paleoclimate data constraints on climate sensitivity: the paleocalibration method. Covey, C., et al. [1996,eng] 50-4150
- Past changes in climate and tree growth in the western Americas. D'Arrigo, R.D., et al. [1996,eng] 50-4061
- Patterns and current changes in alpine plant diversity. Grabherr, G., et al. [1995,eng] 50-3898
- Permafrost and climate change: geotechnical implications. Williams, P.J., [1995,eng] 50-5238
- Permafrost and global warming: strategies of adaptation. Anisimov, O.A., et al. [1996,eng] 50-5057
- Permafrost distribution in the northern hemisphere under scenarios of climatic change. Anisimov, O.A., et al. [1996,eng] 50-6619
- Permafrost, the active layer, and changing climate. Lachenbruch, A.H., [1994,eng] 50-5930
- Pleistocene climatic changes in arctic marine atmospheres. Seidenkrantz, M.S., et al. [1996,eng] 50-5584
- Pliocene climates: the nature of the problem. Crowley, T.J., [1996,eng] 50-6624

Grain size

- Potential climatic change effects on western Canadian forests. Burton, P.J., et al. [1995,eng] 50-769
- Proceedings of the First Conference of Russian Geocryologists. June 3-5, 1996, Moscow, Vol.2. Konferentsiya geokriologov Rossii, 1st, Moscow State University, June 3-5, 1996, [1996,rus] 50-6808
- Rate of carbon accumulation in boreal mires. Tolonen, K., et al. [1994,eng] 50-3223
- Recent advance of the arctic treeline along the eastern coast of Hudson Bay. Lescop-Sinclair, K., et al. [1995,eng] 50-3041
- Recent progress in Vostok ice core analysis: paleoclimate and paleoenvironment. Osada, K., [1995,jpn] 50-1000
- Recent responses of Chilean glaciers to climatic changes. Holmlund, P., et al. [1995,eng] 50-1868
- Recent retreat of ice shelves on the Antarctic Peninsula. Vaughn, D., et al. [1995,eng] 50-2155
- Recent trends in ozone changes and increased greenhouse gases. Graf, H.F., et al. [1995,eng] 50-1775
- Response of snowmelt hydrology to climate change. Brubaker, K.L., et al. [1996,eng] 50-6614
- Responses of arctic polar desert plant litter chemistry to climatic changes. Robinson, C.H., et al. [1995,eng] 50-5100
- Satellite observation of lake ice as a climate indicator. Wynne, R.H., et al. [1993,eng] 50-2862
- Scenarios of changes in the cryolithozone in Russia under global climatic warming. Velichko, A.A., et al. [1996,rus] 50-6839
- Sea ice variations under doubled atmospheric carbon dioxide. Timbal, B., et al. [1995,eng] 50-2734
- Simulations of stratospheric ozone in a climate model. Austin, J., et al. [1995,eng] 50-1772
- Snowmelt, global warming, and water level of Lake Biwa. Ikebuchi, S., [1992,eng] 50-3029
- Solar irradiance, air pollution and temperature changes in the Arctic. Stanhill, G., [1995,eng] 50-5231
- Sulfur hexafluoride—a powerful new atmospheric tracer. Maiss, M., et al. [1996,eng] 50-5608
- Temperate rainforest lakes of Chile and British Columbia. Soto, D., et al. [1996,eng] 50-4066
- Temperature elevation effects on arctic soil insects. Coulson, S.J., et al. [1996,eng] 50-3529
- Terrestrial component of the cryosphere. Melnikov, P.A., et al. [1993,eng] 50-5483
- Test of variant soil moisture conditions on the Canadian Global Forecast Model. Delage, Y., et al. [1995,eng] 50-1528
- Tibetan alpine ecosystem response to climatic changes. Zhang, Y.Q., et al. [1996,eng] 50-5495
- Tien Shan: trends of changes in the geocryological conditions. Gorbunov, A.P., et al. [1996,rus] 50-6841
- Transarctic acoustic propagation. Mikhal'evskiy, P.N., et al. [1995,eng] 50-6273
- Tree establishment in subalpine meadows. Woodward, A., et al. [1995,eng] 50-3322
- Vegetation and climate of Holocene megathermal in Zoige, northwestern Sichuan, China. Liu, G.X., et al. [1995,chi] 50-5635
- Warming at 18,000 yr B.P. in the tropical Andes. Helmens, K.F., et al. [1996,eng] 50-5189
- What really ended the last ice age? Scientists say the oceans did it. [1992,eng] 50-720
- Glossaries**
- See [also]: Dictionaries
- Gold**
- Electrical and magnetic methods for gold exploration. Shi, K.F., et al. [1993,chi] 50-2387
- Geology of the Red Mountain gold deposit in British Columbia. Greig, C.J., et al. [1994,eng] 50-84
- Gold mineralization in western Junggar. Shen, Y.C., et al. [1993,chi] 50-2371
- Magmatic activities and its relation to tectonic setting and gold mineralization in western Junggar. Jin, C.W., et al. [1993,chi] 50-2360
- New improvement of mathematical geology applying in gold mineralization. Shen, B.M., et al. [1993,chi] 50-2386
- Remote sensing for mineral exploration in northern Xinjiang. Guo, H.D., et al. [1993,chi] 50-2384
- Grain size**
- Application of passive microwave retrieval algorithms to monitor global snow cover. Armstrong, R.L., et al. [1992,eng] 50-3562
- Cosmoglaciology: evolution of ice in interstellar space and the early solar system. Kouchi, A., et al. [1995,eng] 50-1030
- Deformation of ice under low stresses. Segó, D.C., et al. [1982,eng] 50-3787
- Effects of snowpack grain size on remote sensing of river basins. Josberger, E.G., et al. [1996,eng] 50-4302
- Eruption-triggered debris flow on snow-clad volcanoes. Pierson, T.C., [1995,eng] 50-1655
- Geochemistry of niveo-eolian sediments in Spitsbergen. Gorniak, A., et al. [1993,eng] 50-2200
- Grain-scale mechanisms influencing the elution of ions from snow. Cragin, J.H., et al. [1996,eng] 50-1975
- Granulometric investigations of loess profiles in Hungary. Kis, E., [1995,eng] 50-1039
- Ice microcracking due to grain boundary sliding. Elvin, A.A., et al. [1996,eng] 50-4185
- Ice-volume forcing of East Asian winter monsoon variations in the past 800,000 years. Ding, Z.L., et al. [1995,eng] 50-965
- Laboratory study of sediment deformation: stress heterogeneity and grain-size evolution. Iverson, N.R., et al. [1996,eng] 50-6256

Grasses

- Laboratory technique for measurement of spectral induced polarization response of soil samples. Vanhala, H., et al. [1995,eng] 50-2998
- Mapping alpine snow and ice using Landsat TM and SAR imagery at Wapta icefield. Brugman, M.M., et al. [1996,eng] 50-5545
- Microcracking during stress-relief of polycrystalline ice formed at high pressure. Meglis, I.L., et al. [1995,eng] 50-774
- Morphology and morphology of quartz grains from loess and buried soil layers. Velichko, A.A., et al. [1995,eng] 50-1038
- Natural freeze-thaw dewatering of aerated lagoon sludges. Desjardins, M.A., et al. [1996,eng] 50-5808
- On the granulometric composition of coarse detrital rocks. Sheshtev, D.M., [1993,rus] 50-120
- On the sedimentological character of alpine basal ice facies. Hubbard, B., et al. [1996,eng] 50-6259
- Pleistocene glacial lake sedimentology, Scotland. Benn, D.I., [1996,eng] 50-5827
- Processes in soils and paleosols—a new method for the study of weathering. Nemecek, E., et al. [1995,eng] 50-1037
- Sedimentary structures of cold-climate coastal dunes, eastern Hudson Bay, Canada. Ruz, M.H., et al. [1995,eng] 50-3862
- Snow cover on winter sea ice of Amundsen and Ross seas. Sturm, M., et al. [1995,eng] 50-6505
- Soil studies in the region of southern Bellsund area (Western Spitsbergen). Klimowicz, Z., et al. [1993,eng] 50-2205
- Source of Quaternary deposits at the foot of the West Kunlun Mountains, Xinjiang, Zhu, L.P., [1994,eng] 50-1539
- Surface sediment mineralogy of the Laptev Sea. Wahsner, M., [1995,eng] 50-2099
- Unfrozen water content and grain size of Mackenzie Delta core samples. Patterson, D.E., [1994,eng] 50-400
- Warta Glaciation deposits within the non-glaciated zone in the Polesie Lubelskie. Wojtanowicz, J., [1993,pol] 50-3668
- Wing crack models of the brittle compressive failure of ice. Nixon, W.A., [1996,eng] 50-3826
- See [also]: Ice crystal size
- Grasses**
- Anthropogenic effect on plant communities on Oktiabr'skaya Revoliutsiya I. Gavrilov, M.V., [1991,rus] 50-1309
- Antifreeze proteins in winter rye are similar to pathogenesis-related proteins. Hon, W.C., et al. [1995,eng] 50-2853
- Barley genetic resources on the Qinghai-Xizang Plateau. Xu, T.W., [1992,chi] 50-1492
- Clonal diversity in an arctic sedge. Jonsson, B.O., et al. [1996,eng] 50-6076
- CO₂ exchange in some vascular plants inhabiting the polar Urals. Gerasimenko, T.V., et al. [1996,eng] 50-6757
- Cold acclimation of arctic grass photosynthetic apparatus. Koroleva, O.I.A., [1996,eng] 50-6755
- Cold acclimation of rye leaves during freeze/thaw cycles. Uemura, M., et al. [1995,eng] 50-3343
- Controlling recultivated successions. Teteruk, B.I.U., [1994,rus] 50-300
- Distribution of the high arctic grass, *Phippisia algida*. Grulke, N.E., [1995,eng] 50-78
- Ecology of an alpine cushion plant. Owen, W.R., [1995,eng] 50-1540
- Effects of grazing on alpine vegetation in the Caucasus and the Rockies. Bock, J.H., et al. [1995,eng] 50-73
- Effects of seed treatments on germination. Diemand, D., et al. [1994,eng] 50-5836
- Enzymatic and morphological variations in arctic grasses. Aiken, S.G., et al. [1995,eng] 50-1068
- Evaluation of wheat germplasm resources in Xizang. Huang, H.L., et al. [1992,chi] 50-1491
- Experience in biological recultivation of alluvial sandy soils in the Lena River floodplain. Poklonnaya, L.V., [1994,rus] 50-299
- Germination properties of herb perennials on Mt. Fuji. Nishitani, S., et al. [1996,eng] 50-4343
- Grass photosynthesis variations under cold climatic conditions. Siutkina, A.V., et al. [1996,eng] 50-6754
- Grassland ecosystems in eastern Inner Mongolia. Nemoto, M., [1991,jpn] 50-1440
- Growing perennial grasses on dredging grounds in Southern Yakutia. Petrova, A.N., [1994,rus] 50-288
- Growth dynamics and population development in an alpine grassland under elevated CO₂. Schappi, B., [1996,eng] 50-5779
- Growth responses of an alpine grassland to elevated CO₂. Schappi, B., et al. [1996,eng] 50-5771
- Long-term plant persistence on highly acidic soils. Palazzo, A.J., et al. [1995,eng] 50-5593
- Monitoring sown meadows in eastern European tundra. Kotelina, N.S., et al. [1994,rus] 50-292
- Natural recovery and assisted revegetation in dwarf shrub dominated communities in Greenland. Strandberg, B., [1994,eng] 50-305
- Phenotypic plasticity in leaves of four species of arctic *Festuca* (Poaceae). Ramesar-Fortner, N.S., et al. [1995,eng] 50-3301
- Rangelands of Xizang (Tibet). Mou, X.D., et al. [1992,chi] 50-2296
- Reaction of plant communities to technogenic disturbances in tundras in Yamal. Khitun, O.V., et al. [1994,rus] 50-258
- Relics of the xerophyte vegetation of Beringia in northeastern Asia. Urusev, B.A., [1982,eng] 50-3376
- Tall and hard fescue responses to periodic soil water deficits. Brar, G.S., et al. [1995,eng] 50-2475
- Technological improvement of biological recultivation of soils in Komi. Lobovikov, N.N., et al. [1994,rus] 50-291

- Tibetan alpine ecosystem response to climatic changes. Zhang, Y.Q., et al. [1996,eng] 50-5495
- Tussock grass community in a Himalayan alpine grassland. Rikhiari, H.C., et al. [1994,eng] 50-5428
- What the biological recultivation of sandy quarries on Yamal has shown. Gromik, V.D., [1994,rus] 50-295
- Graupel**
- See [also]: Snow pellets
- Gravel**
- Arctic kelp community in the Alaskan Beaufort Sea. Dunton, K.H., et al. [1982,eng] 50-3681
- Beach sedimentation on paraglacial coasts. Forbes, D.L., et al. [1995,eng] 50-1119
- Dynamic deformation characteristics of undisturbed riverbed gravels. Yasuda, N., et al. [1996,eng] 50-4861
- Fabric and structure in glaciofluvial gravels. Rust, B.R., [1975,eng] 50-4816
- Floating slabs for unheated buildings. Crory, F.E., [1987,eng] 50-3757
- Late Pleistocene deposits at Block Fen, Cambridgeshire, England. West, R.G., et al. [1995,eng] 50-6214
- Paleoclimatic import of gravel deposits on a Chinese plateau. Liu, T.S., et al. [1996,eng] 50-5098
- Paleoecological implications of frost-shattered sediments on the Norwegian coast. Blikra, L.H., et al. [1995,eng] 50-2167
- Source of Quaternary deposits at the foot of the West Kunlun Mountains, Xinjiang. Zhu, L.P., [1994,eng] 50-1539
- Suprapermafrost groundwater seepage in gravelly terrain, Resolute, NWT, Canada. Woo, M.K., et al. [1995,eng] 50-668
- Gravimetric prospecting**
- Seismic and gravity surveys of Scoresby Sound. Mandler, H., [1995,ger] 50-1547
- Gravity**
- Ice streams in Antarctica: transverse instability of gravity driven flow. Minale, M., et al. [1996,eng] 50-3722
- Seismic soundings of Scoresby Sund. Weigel, W., et al. [1995,eng] 50-4198
- Water kept liquid by warmth from within. Bentley, C.R., [1996,eng] 50-5602
- West Antarctic ice sheet removal of subglacial volcanic artefacts. Behrendt, J.C., et al. [1995,eng] 50-2530
- Gravity anomalies**
- Gravimetric investigation of permafrost on the Blockglaciers Murtel-Corvatsch (Oberengadin). Klingel, E., et al. [1993,ger] 50-4909
- Gravity waves**
- Acoustic wave perturbations within the Barents Sea Polar Front. Lynch, J.F., et al. [1996,eng] 50-4590
- Case study of turbulent parameters during the antarctic winter. Yagüe, C., et al. [1995,eng] 50-1339
- Doppler electromagnetic analysis of ice cover gravity wave oscillations. Vdovichenko, S.P., [1996,eng] 50-5703
- Effects of floating ice cracks on propagation of flexural waves. Bukatov, A.E., et al. [1996,eng] 50-3410
- Fargo snowstorm of 6-8 January 1989. Weisman, R.A., [1996,eng] 50-6061
- Glimpse beneath the ice. Plueddemann, A.J., [1996,eng] 50-6674
- Long-term trend in sea ice thickness variation in the Arctic basin. Nagurniy, A.P., [1995,eng] 50-5479
- Model of drag forces on sea ice bottom surfaces. Pite, H.D., et al. [1995,eng] 50-2740
- On the generation of internal waves beneath sea ice by a moving load. Duffy, D.G., [1996,eng] 50-3825
- Outflow of dense water from the Storfjord in Svalbard: a numerical model study. Jungclaus, J.H., et al. [1995,eng] 50-2777
- Planetary waves in total ozone and their relation to antarctic ozone depletion. Bodeker, G.E., et al. [1995,eng] 50-4541
- Role of atmospheric waves in the laminated structure of ozone profiles at high latitude. Teitelbaum, H., et al. [1996,eng] 50-5871
- Small-scale waves encountered during AASE. Baumeister, J.T., et al. [1990,eng] 50-5982
- Studies of the polar middle and lower atmosphere by an MST radar on Svalbard. Röttger, J., et al. [1995,eng] 50-4262
- Tropospheric dehydration by subvisible cirrus clouds. Jensen, E.J., et al. [1996,eng] 50-5287
- Grazing**
- Ecological study in an alpine pasture of Bhagirathi Valley, Garhwal Himalaya. Rajwar, G.S., et al. [1994,eng] 50-5429
- Ecology and conservation of alpine meadows in central Himalaya, India. Ram, J., et al. [1994,eng] 50-5418
- Effects of grazing on alpine vegetation in the Caucasus and the Rockies. Bock, J.H., et al. [1995,eng] 50-73
- High altitudes of the Himalaya (biogeography, ecology & conservation). Pangtey, Y.P.S., ed. et al. [1994,eng] 50-5415
- Preliminary habitat suitability index model for Himalayan musk deer. Rawat, G.S., [1994,eng] 50-5430
- Rangelands of Xizang (Tibet). Mou, X.D., et al. [1992,chi] 50-2296
- Resource ecology for soil conservation in the cold deserts of the Himalaya. Gupta, R.K., [1994,eng] 50-5426
- Tussock grass community in a Himalayan alpine grassland. Rikhiari, H.C., et al. [1994,eng] 50-5428
- Vegetation dynamics and animal behaviour in an alpine pasture of the Garhwal Himalaya. Sundriyal, R.C., [1994,eng] 50-5427
- Great Lakes**
- Great Lakes ice cover studies. U.S. National Oceanic and Atmospheric Administration. Great Lakes Environmental Research Laboratory (GLERL), Ann Arbor, MI. [1995,eng] 50-2479

- SSM/I time series observations of Great Lakes ice and snow. Pilant, D., [1995,eng] 50-3107
- Greenhouse effect**
- Arctic 'greenhouse effect'. Blanchet, J.P., et al. [1994,eng] 50-5034
- Assessment of global climate model simulations of arctic air temperatures. Tao, X., et al. [1996,eng] 50-5532
- Assessment of the impact of the greenhouse gas emission and sink scenarios in Finland. Pipatti, R., et al. [1994,eng] 50-3234
- Atmospheric carbon emission from North Asian lakes: a factor of global significance. Semiletov, I.P., et al. [1996,eng] 50-5609
- Greenhouse effect and the global environmental changes. Obrębska-Starkel, B., et al. [1991,pol] 50-5003
- Greenhouse effect. Kellogg, W.W., [1996,eng] 50-4985
- High-latitude forest ecophysiology during global warming. Kohlmaier, G.H., et al. [1995,eng] 50-771
- Ice complex and greenhouse gases. Kunitskiĭ, V.V., [1996,rus] 50-6380
- Methanogenesis at low temperatures by microflora of tundra wetland soil. Kotsiurbenko, O.R., et al. [1996,eng] 50-5156
- Nitrous oxide emission from an agricultural soil subjected to different freeze-thaw cycles. Chen, Y., et al. [1995,eng] 50-5687
- Patterns and current changes in alpine plant diversity. Grabherr, G., et al. [1995,eng] 50-3988
- Response of soil carbon to climate change. McGuire, A.D., et al. [1995,eng] 50-4866
- Response of soil carbon to climate change. McGuire, A.D., et al. [1995,eng] 50-4866
- Sulfur hexafluoride—a powerful new atmospheric tracer. Maiss, M., et al. [1996,eng] 50-5608
- Terrestrial component of the cryosphere. Melnikov, P.A., et al. [1993,eng] 50-5483
- Tibetan alpine ecosystem response to climatic changes. Zhang, Y.Q., et al. [1996,eng] 50-5495
- Tropospheric chemistry of greenhouse gases in Finnish conditions. Laurila, T., et al. [1994,eng] 50-3191
- Winter-summer differences of carbon dioxide and oxygen in the Weddell Sea surface layer. Hoppema, M., et al. [1995,eng] 50-3006
- Greenland**
- 100th anniversary of the Nansen expedition (1888-1889). Matalowski, S., [1989,pol] 50-2929
- 110,000-yr record of explosive volcanism from the GISP2 (Greenland) ice core. Zielinski, G.A., et al. [1996,eng] 50-4575
- 1971 performance survey of DEW Line ice cap stations DYE-2 and DYE-3. Flax, D., et al. [1971,eng] 50-5756
- Altitude retracking algorithm accuracy for Greenland ice sheet growth. Davis, C.H., [1995,eng] 50-980
- Ancient pollution recorded in Greenland ice. Hong, S.M., et al. [1996,eng] 50-3956
- Arctic tropospheric chemistry. Hernández, M.D.A., [1996,eng] 50-3868
- Aromatic hydrocarbons in Greenland ice and atmosphere. Masclet, P., et al. [1995,eng] 50-2572
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Atmospheric chemistry changes versus past climate inferred from polar ice cores. Legrand, M., [1995,eng] 50-1643
- Atmospheric CO₂ and isotopic carbon-13 dioxide in ice-core air bubble. Wahlen, M., [1994,eng] 50-1894
- Atmospheric water vapour budget over Greenland. Calanca, P., [1994,eng] 50-4944
- Biogeochemistry of heavy metals in the Arctic. Dobrovolskiĭ, V.V., [1995,rus] 50-3971
- Biomass burning recorded in the GISP2 ice core: a record from eastern Canada? Taylor, K.C., et al. [1996,eng] 50-4370
- Challenging an ice-core paleothermometer. MacAyeal, D.R., [1995,eng] 50-628
- Climatic implications of ostracode deposits in Greenland Quaternary sediments. Brouwers, E.M., et al. [1991,eng] 50-2564
- Comparison of ice-sheet satellite altimeter retracking algorithms. Davis, C.H., [1996,eng] 50-2703
- Contrasting atmospheric and paleoclimate dynamics. Ditlevsen, P.D., et al. [1996,eng] 50-3352
- Danish Polar Center annual report, 1994. Dansk Polarcenter. [1995,eng] 50-659
- Deep ice stirs debate on climate stability. Monastersky, R., [1993,eng] 50-4800
- Deglaciation climatology of West Greenland moraines. Van Tatenhove, F.G.M., et al. [1996,eng] 50-5187
- Degree-day glacier mass balance modelling. Jóhannesson, T., et al. [1995,eng] 50-445
- Development of the JARE deep ice coring system (II). Narita, H., et al. [1995,jpn] 50-1693
- Digital enhancement of ground probing radar data. Rees, H.V., et al. [1992,eng] 50-46
- Dust in Greenland and antarctic ice cores of the LGM. Yung, Y.L., et al. [1996,eng] 50-2727
- Early Holocene moraine bank sedimentology of East Greenland. Huddart, D., et al. [1990,eng] 50-929
- ECMWF analyses and predictions of the surface climate of Greenland and Antarctica. Genton, C., et al. [1995,eng] 50-1327
- Effects of oil spills on high arctic plant communities in Greenland. Bay, C., et al. [1994,eng] 50-303

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- Elevation change of the Greenland ice sheet from satellite altimetry. Wingham, D.J., et al. [1995,eng] 50-5237
- Energy balance of snow and partially snow covered areas in western Greenland. Harding, R.J., et al. [1995,eng] 50-5088
- Environment and research in Greenland and Jameson Land. Di Cesare, F., et al. [1994,ita] 50-2819
- Environmental impact of offshore oil exploration in the Arctic. Mosbech, A., et al. [1995,eng] 50-2964
- ERS-1 altimetry on the Greenland ice sheet: preliminary investigations of annual variations. Andersen, O.B., [1994,eng] 50-5033
- Estimates of Greenland atmospheric impurity variations during deglaciation. Alley, R.B., et al. [1995,eng] 50-1872
- European paleoclimatic variations inferred from Greenland ice core isotope analysis. Hafidason, H., et al. [1995,eng] 50-2528
- Glacio-meteorological and isotopic studies along the EGIG line, central Greenland. Fischer, H., et al. [1995,eng] 50-1873
- Global warming cuts no ice in Greenland. Gribbin, J., [1995,eng] 50-1966
- Grain structure of first year sea ice in a Greenland fjord. Johnston, M., et al. [1995,eng] 50-2965
- Greenland '90: a first step toward using the polar ice cap as a Cherenkov detector. Barwick, S.W., et al. [1992,eng] 50-4263
- Greenland and United Kingdom paleotemperatures comparisons from Greenland snow accumulation rates. Lowe, J.J., et al. [1995,eng] 50-1082
- Greenland atmospheric aerosol composition during a foehn. Kikuchi, K., et al. [1996,eng] 50-6216
- Greenland expedition with the Ni2 level. Mälzer, H., [1960,eng] 50-5750
- Greenland ice core record of Holocene climate. O'Brien, S.R., et al. [1995,eng] 50-1797
- Greenland ice core records and rapid climate change. Dowdeswell, J.A., et al. [1995,eng] 50-5239
- Greenland ice core sediments correlated with oceanic sediments. Grönvold, K., et al. [1995,eng] 50-1251
- Greenland ice sheet climate record of the past 16,500 years. Stuiver, M., et al. [1995,eng] 50-2015
- Greenland ice sheet in response to various climate scenarios. Calov, R., et al. [1996,eng] 50-6435
- Greenland ice sheet thickness changes measured by laser altimetry. Krabill, W., et al. [1995,eng] 50-751
- Greenland ice sheet thickness changes measured by laser altimetry. Thomas, R., et al. [1993,eng] 50-4803
- Greenland Ice-Core Project (GRIP): three years of activity. Maggi, V., et al. [1994,ita] 50-2821
- Greenland paleotemperatures derived from ice core isotope profiles. Johnsen, S.J., et al. [1995,eng] 50-2027
- Greenland's ice holds key to climate puzzle. Kiernan, V., [1996,eng] 50-6546
- Heat flux over a melting Greenland ice sheet. Braithwaite, R.J., [1995,eng] 50-1877
- High performance fiber optic hydrophones in the arctic environment. Yurek, A.M., et al. [1995,eng] 50-1211
- Historical records of fatty acids in an ice core from Site-J, Greenland. Kawamura, K., et al. [1995,eng] 50-3247
- History of the exploration of the vascular flora of Greenland. Pringle, J.S., [1995,eng] 50-3413
- Hydroclimatic data by Greenland Field Investigations. Scharling, M., et al. [1995,eng] 50-2966
- Ice bubbles confirm big chill. Kerr, R.A., [1996,eng] 50-5065
- Ice conditions in the Greenland waters, 1957.[1967,eng] 50-1231
- Ice conditions in the Greenland waters, 1958.[1967,eng] 50-1232
- Ice conditions in the Greenland waters, 1959.[1968,eng] 50-1233
- Ice conditions in the Greenland waters, 1960.[1964,eng] 50-1234
- Ice conditions in the Greenland waters, 1961.[1965,eng] 50-1235
- Ice conditions in the Greenland waters, 1962.[1968,eng] 50-1124
- Ice conditions in the Greenland waters, 1963.[1970,eng] 50-1125
- Ice conditions in the Greenland waters, 1964.[1971,eng] 50-1236
- Ice conditions in the Greenland waters, 1966.[1981,eng] 50-1257
- Ice conditions in the Greenland waters, 1968.[1983,eng] 50-1258
- Ice conditions in the Greenland waters, 1974.[1985,eng] 50-1259
- Ice conditions in the Greenland waters, 1975.[1982,eng] 50-1260
- Ice conditions in the Greenland waters, 1976.[1982,eng] 50-1126
- Ice conditions in the Greenland waters, 1977.[1983,eng] 50-1127
- Ice conditions in the Greenland waters, 1978.[1985,eng] 50-1128
- Ice conditions in the Greenland waters, 1979.[1985,eng] 50-1129
- Ice conditions off Greenland. Fabricius, J.S., et al. [1959,dan] 50-406
- Ice sheet model test via glacial geological research in West Greenland. Van Tatenhove, F.G.M., et al. [1995,eng] 50-2013
- Ice sheet motion and topography from radar interferometry. Kwok, R., et al. [1996,eng] 50-2702
- Iceberg sediment deposits in a Greenland glaciomarine setting. Syvitski, J.P.M., et al. [1996,eng] 50-5319
- International Glaciological Greenland Expedition, 1959/60. Hofmann, W., [1958,ger] 50-5745
- Isotope analysis of Greenland ice sheet stratigraphic disturbances. Fuchs, A., et al. [1996,eng] 50-5461
- Isotopic climatic records in the Allerød-Bølling-Younger Dryas and post-Younger Dryas events. Epstein, S., [1995,eng] 50-2804
- Japanese glaciological environmental studies in the arctic cryosphere. Watanabe, O., [1995,jpn] 50-3507
- Large Arctic temperature change in the Holocene. Cuffey, K.M., et al. [1995,eng] 50-629
- Late Quaternary paleoceanography of the mid- to outer continental shelf, East Greenland. Williams, K.M., et al. [1995,eng] 50-2810
- Late Quaternary stratigraphy and glaciology in the Thule area, Northwest Greenland. Funder, S., ed. [1990,eng] 50-5169
- Logistics in remote areas in Greenland. Andersson, T.I.H., et al. [1995,eng] 50-2967
- Measuring firn thickness and accumulation temperature. Craig, H., et al. [1996,eng] 50-3640
- Measuring geophysical parameters of the Greenland ice sheet using airborne radar altimetry. Ferraro, E.J., et al. [1995,eng] 50-1881
- Measuring the conductivity and density of ice cores. Wilhelm, F., [1996,ger] 50-4735
- Meltwater generation, infiltration and runoff from the Greenland ice sheet. Zou, J.H., [1993,eng] 50-699
- Monitoring and modelling the ice conditions offshore Greenland. Valeur, H.H., et al. [1995,eng] 50-2971
- Natural recovery and assisted revegetation in dwarf shrub dominated communities in Greenland. Strandberg, B., [1994,eng] 50-305
- New type of glacial deposit. Appel, P.W.U., [1996,eng] 50-3353
- Noctilucent cloud observations over Greenland by a Rayleigh lidar. Thayer, J.P., et al. [1995,eng] 50-4542
- On snow crystals with small raindrops observed in Greenland. Harimaya, T., et al. [1993,eng] 50-6039
- On the embryo in graupel particles observed in Greenland. Harimaya, T., et al. [1992,eng] 50-6643
- Paleoenvironmental implications of modern periglacial eolian deposits. Dijkman, J.W.A., et al. [1991,eng] 50-5172
- Palynology and sediment slumping in a high arctic Greenland lake. Fredskild, B., [1995,eng] 50-3368
- Plio-Pleistocene foraminiferal stratigraphy in North Greenland. Feyling-Hanssen, R.W., [1990,eng] 50-5171
- Plio-Pleistocene stratigraphy and paleobotany of the Kap København Formation. Bennike, O., [1990,eng] 50-5170
- Polar sea ice off West Greenland—a review. Fabricius, J.S., et al. [1995,eng] 50-2972
- Position measurements during the 1959 International Glaciological Expedition in Greenland. Hofmann, W., [1958,ger] 50-4632
- Post-glacial mass flow and associated deposits in paleovalleys of Greenland. Collinson, J.D., et al. [1989,eng] 50-5168
- Potentials for utilization of hydroelectric resources in Greenland. Taagholt, J., [1995,eng] 50-2963
- Precambrian glaciomarine sedimentation in East Greenland. Moncrieff, A.C.M., et al. [1990,eng] 50-935
- Private enterprise employment of Greenlanders at Thule Air Base. Sørensen, P.E., [1995,eng] 50-2970
- Radar investigations of firn structures and crevasses. Glover, J.M., et al. [1992,eng] 50-58
- Radar measurements of melt zones on the Greenland ice sheet. Jezek, K.C., et al. [1994,eng] 50-4804
- Radiation conditions on the Greenland ice sheet. Konzelmann, T., [1994,eng] 50-69
- Radiative fluxes and their impact on the energy balance of the Greenland ice sheet. Konzelmann, T., et al. [1995,eng] 50-1871
- Radiocarbon date list VIII: Canada, Greenland, Iceland, and Antarctica. Manley, W.F., ed. et al. [1996,eng] 50-5927
- Radiometric data and modeled snowpack conditions for Dye 2, Greenland. Mote, T.L., et al. [1996,eng] 50-4961
- Rapid climatic shifts during isotope stages 2-4 in the polar North Atlantic. Dokken, T.M., et al. [1996,eng] 50-6105
- Rapid oscillations in Vostok and GRIP ice cores. Yiou, P., et al. [1995,eng] 50-772
- Remote sensing of East Greenland mafic intrusion lithology. Birnie, R.W., et al. [1989,eng] 50-3935
- Report on establishing an interdisciplinary polar institute in Denmark. Denmark. Ministeriet for Grønland (Ministry for Greenland), [1985,dan] 50-4551
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- Sea ice landing strip for Boeing-727 in northern Greenland. Sinha, N.K., [1995,eng] 50-2973
- Sediment flux along glaciated continental margins. Andrews, J.T., et al. [1994,eng] 50-1241
- Simulation of summer snowmelt on the Greenland ice sheet using a one-dimensional model. Rowe, C.M., et al. [1995,eng] 50-585
- Straight line measurements of an open four-sided figure. Hofmann, W., [1958,ger] 50-4633
- Stratigraphic detection of Greenland ice sheet chemical changes. Wolff, E.W., et al. [1995,eng] 50-584
- Tardigrada of the arctic tundra with descriptions of two new species. Maucci, W., [1996,eng] 50-5293
- Telecommunications in Greenland: also for offshore activities. Malmberg, P., [1995,eng] 50-2968
- Thermal regime of Holocene Greenland ice sheet moraine formation. Van Tatenhove, F.G.M., et al. [1996,eng] 50-5582
- U.S. Army research camps in northwest Greenland. Tobiasson, W., [1968,eng] 50-3882
- Use of a Geographical Information System in environmental management in Greenland. Aastrup, P., [1994,eng] 50-302
- Utility of imaging spectrometry for lithologic mapping in Greenland. Rivard, B., et al. [1992,eng] 50-1651
- Variations in atmospheric methane. Brook, E.J., et al. [1996,eng] 50-6196
- Volcanic stratospheric loading derived from Greenland ice core measurements. Zielinski, G.A., [1995,eng] 50-1331
- Greenland Sea**
- Aerosols composition over the Arctic Ocean. Shevchenko, V.P., et al. [1995,eng] 50-2061
- Anatomy of the Arctic Frontal Zone in the Greenland Sea. van Aken, H.M., et al. [1995,eng] 50-573
- Arktis 1993: report on the field phase with examples of measurements. Brümmer, B., ed. [1993,eng] 50-4945
- Atlas of Arctic icebergs. Abramov, V., [1996,eng] 50-6320
- Atmosphere-surface interactions over polar oceans and heterogeneous surfaces. Vihma, T., [1995,eng] 50-4035
- Benthic-pelagic coupling in the Greenland-Norwegian Sea and its effect on the geological record. Graf, G., et al. [1995,eng] 50-747
- Case study in three-dimensional inverse methods: combining hydrographic, acoustic, and moored thermistor data in the Greenland Sea. Morawitz, W.M.L., et al. [1996,eng] 50-5167
- Cenozoic Northern Hemisphere glaciations. Thiede, J., et al. [1995,eng] 50-5240
- CTD measurements in the Greenland Sea, 1993. Budéus, G., et al. [1996,eng] 50-5105
- Deep water formation in the Greenland Sea. Pawłowicz, R.A., et al. [1996,eng] 50-6669
- Deposition of organic matter in the Norwegian-Greenland Sea during the past 2.7 million years. Wagner, T., et al. [1995,eng] 50-2016
- Detecting new-ice in the arctic from multispectral satellite data. Martin, T., et al. [1992,eng] 50-224
- Distribution and biomass of Greenland shelf epibenthic megafauna. Piepenburg, D., et al. [1996,eng] 50-5045
- Expedition ARKTIS X/1 of the research vessel *Polarstern* in 1994. Fahrbach, E., ed. [1995,ger] 50-3157
- Expedition ARKTIS-XI/2 of RV *Polarstern* in 1995. Krause, G., ed. [1996,eng] 50-5104
- Fine resolution numerical model of the Iceland-Faeroe front with open boundary conditions. Griffiths, C., [1995,eng] 50-571
- Geochemistry of volcanic ashes from Greenland Basin. Haase, K.M., et al. [1996,eng] 50-5267
- Greenland Sea ice variations recorded by spaceborne photography. Mitchelson-Jacob, E.G., [1996,eng] 50-4292
- Inter-annual variation in the radiation and turbulent flow in the Barents, Norwegian and Greenland seas. Girdiuk, G.V., [1992,rus] 50-1270
- Isotope analysis of Arctic Ocean ice algae primary productivity. Hobson, K.A., et al. [1995,eng] 50-3359
- Marine sedimentation rates as evidence of continental glaciation. Goldschmidt, P.M., [1995,eng] 50-1828
- Mercury and plastic in suspended Arctic Ocean sediment. Joinis, C.R., et al. [1995,eng] 50-1971
- Metabolism of deep-sea sponges in the Greenland-Norwegian Sea. Witte, U., et al. [1996,eng] 50-6613
- Multisensor observations of winter sea ice in the Greenland Sea. Toudal, L., [1994,eng] 50-1514
- Numerical modelling of North Atlantic Quaternary sedimentation. Haupt, B.J., et al. [1995,eng] 50-750
- Numerical simulations of topographic Rossby waves along the East Greenland front. Maslowski, W., [1996,eng] 50-5260
- Occurrence of sub-ice algal aggregations off northeast Greenland. Gutt, J., [1995,eng] 50-163
- Pelagic processes in the Norwegian and Greenland Seas. von Bodungen, B., et al. [1995,eng] 50-746
- Plankton ecosystems in the Norwegian and Greenland Sea. Samleb, C., et al. [1995,eng] 50-749
- Preconditioning the Greenland Sea for deep convection: ice formation and ice drift. Visbeck, M., et al. [1995,eng] 50-567
- Real-time operational forecasting on shipboard of the Iceland-Faeroe frontal variability. Robinson, A.R., et al. [1996,eng] 50-4742
- Satellite tracking of high-arctic northern fulmars. Falk, K., et al. [1995,eng] 50-718
- Thermal rejuvenation of the Yermak Plateau. Okay, N., et al. [1994,eng] 50-4249
- Thermohaline circulation of the Arctic Ocean and the Greenland Sea. Rudels, B., [1995,eng] 50-5234
- Transfer of European coastal pollution to the Arctic: radioactive tracers. Dahlgård, H., [1995,eng] 50-1136
- Transfer of reprocessing wastes from north-west Europe to the Arctic. Kershaw, P., et al. [1995,eng] 50-4559
- Validation and evaluation of a workstation for monitoring sea ice. McIntyre, N., et al. [1994,eng] 50-1515
- Vertical light attenuation by phytoplankton absorption in the Greenland Sea. Dall'ekken, R., et al. [1995,eng] 50-4131
- Wind gusts in northern seas. Zykova, G.G., [1992,rus] 50-1271
- Zonal and meridional components of atmospheric heat exchange in the northern European basin. Martem'ianova, E.S., [1992,rus] 50-1273

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Vertical distribution of lichens on the mountain, Aucellabjerg, northeastern Greenland. Hansen, E.S., [1996,eng] 50-4344
- Greenland—Crête**
No iridium anomaly after the 1908 Tunguska impact: evidence from a Greenland ice core. Rasmussen, K.L., et al., [1995,eng] 50-2741
- Greenland—Disko**
Palaeoecology of two lake basins from Disko, West Greenland. Bennike, O., [1995,eng] 50-1081
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Coastal Greenland Holocene sea level changes. Rasch, M., et al., [1995,eng] 50-5533
- Greenland—Dye 3**
10-century comparison of prominent bipolar volcanic events in ice cores. Langway, C.C., Jr., et al., [1995,eng] 50-583
- Greenland—Hochstetter Bugten**
Expedition ARKTIS-X/2 of RV *Polarstern* in 1994. Hubberten, H.W., ed. [1995,eng] 50-1548
- Greenland—Kangerdlugssuaq Fjord**
Mapping tide-water glacier dynamics in East Greenland using Landsat data. Dwyer, J.L., [1995,eng] 50-1879
- Greenland—Kap Edvard Holm**
Geochemistry and mineralogy of Kap Edvard Holm waters. Brandriss, M.E., et al., [1995,eng] 50-2056
- Greenland—Kong Oscar Fjord**
Expedition ARKTIS-X/2 of RV *Polarstern* in 1994. Hubberten, H.W., ed. [1995,eng] 50-1548
- Greenland—Maarmorilik**
Lichen accumulation of airborne metals adjacent to a lead-zinc mine. Pilegaard, K., [1994,eng] 50-5604
- Greenland—Nansen Fjord**
Foraminiferal evidence for Greenland environmental change. Jennings, A.E., et al., [1995,eng] 50-6079
- Greenland—Scoresby Sund**
Expedition ARKTIS-VII/3 of RV *Polarstern* in 1990. Miller, H., ed. [1996,ger] 50-4326
Expedition ARKTIS-X/2 of RV *Polarstern* in 1994. Hubberten, H.W., ed. [1995,eng] 50-1548
Seismic and gravity surveys of Scoresby Sound. Mandler, H., [1995,ger] 50-1547
Seismic soundings of Scoresby Sund. Weigel, W., et al., [1995,eng] 50-4198
- Greenland—Summit**
Accelerator mass spectrometry: new applications. Synal, H.A., [1995,eng] 50-2309
Biomass burning signatures in Greenland snow and atmosphere. Dibb, J.E., et al., [1996,eng] 50-3152
Bismuth in recent snow from central Greenland: preliminary results. Candelone, J.P., et al., [1995,eng] 50-779
Chinese loess accumulation compared to Greenland ice core climatology. An, Z.S., et al., [1995,eng] 50-1065
Contributions of snow and fog to Greenland ice sheet ionic variations. Bergin, M.H., et al., [1995,eng] 50-586
Diel variations of H_2O_2 in Greenland: a discussion of the cause and effect relationship. Bales, R.C., et al., [1995,eng] 50-634
First results of $^{15}N/^{14}N$ ratios in nitrate from alpine and polar ice cores. Freyer, H.D., et al., [1996,eng] 50-3724
Forest fire records inferred from Greenland ice core chemistry. Legrand, M., et al., [1996,eng] 50-3447
High-resolution ammonium ice core record covering a complete glacial-interglacial cycle. Fuhrer, K., et al., [1996,eng] 50-3448
Lead isotopic ratios in Greenland and antarctic snow and ice. Chisholm, W., et al., [1995,eng] 50-1256
On the concentrations of O_2 , N_2 , and Ar in trapped gases from ice cores. Bender, M., et al., [1995,eng] 50-633
Recent air pollution variations inferred from Greenland ice sheet heavy metal concentrations. Candelone, J.P., et al., [1995,eng] 50-590
Relevance of glacial bed debris to glacial mechanics. Gow, A.J., et al., [1996,eng] 50-6251
Simple model to estimate atmospheric concentrations of aerosol chemical species based on snow core chemistry at Summit. Greenland. Bergin, M.H., et al., [1995,eng] 50-3097
Solar particle origin for polar ice core nitrate anomalies. Zeller, E.J., et al., [1995,eng] 50-1184
Younger Dryas as viewed through the Summit Greenland ice cores. Mayewski, P.A., [1994,eng] 50-5301
- Greenland—Svartenhuk**
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- Greenland—Thule**
Early Weichselian interstadial land biotas at Thule, northwest Greenland. Bennike, O., et al., [1992,eng] 50-2553
Ozone and aerosol correlated observations at Thule, Greenland, in the period 1991-1994. Di Sarra, A., et al., [1995,eng] 50-2849
- Greenland—Tunnelelv River**
Dispersal of metal-contaminated sediments in an arctic river. Sear, D., et al., [1996,eng] 50-6516
- Ground based smoke generators**
See [also]: Smoke generators
- Ground freezing**
See [also]: Soil freezing
- Ground ice**
"Ice Mountain"—a Pleistocene relict in the north of West Siberia. Rajamäe, R., et al., [1989,eng] 50-2897
Application of air photo to the analysis of ground ice. Liang, F.X., et al., [1989,chi] 50-1356
- Arctic shelf in the last cryogenic epoch of the Late Pleistocene. Danilov, I.D., [1996,eng] 50-6353
Behavior of crystals in kimberlite and ice under the action of shock waves. Beloborodov, V.N., et al., [1995,eng] 50-1206
Chemical sputtering could produce sodium vapor and ice on Mercury. Potter, A.E., [1995,eng] 50-3093
Conditions of the occurrence and structure of layered deposits of ground ice. Koreisha, M.M., et al., [1983,rus] 50-313
Confirming airworthiness prior to takeoff in icing conditions—pilot options. Eloranta, J.T., [1992,eng] 50-3798
Cratering phenomena on aircraft anti-icing films. La Due, J., et al., [1996,eng] 50-4219
Cryogenic state of soil in the cryolithozone (Yakutia). Gavril'ev, P.P., et al., [1996,rus] 50-6844
Detecting layered ground ice using a high-precision ground-based magnetic survey. Matushkin, B.A., [1985,rus] 50-243
Dynamics of rock glaciers: data from Tröllaskagi, north Iceland. Whalley, W.B., et al., [1995,eng] 50-4833
Ecological aspects of the development of flat-polygonal bogs of Yamal. Kanev, V.V., et al., [1996,eng] 50-6580
Effect of climate warming on the Qinghai-Tibet Highway, China. Tong, C.J., et al., [1996,eng] 50-3830
Effects of hydrology on the thermal conditions of the active layer. Woo, M.K., et al., [1994,eng] 50-5702
Electrolytic processes in dirty planetary ices. Drobyshvskii, E.M., et al., [1995,eng] 50-6555
Engineering-geocryological conditions of the Neytinsk structure. Dan'ko, V.K., et al., [1983,rus] 50-310
Evaluating the deformation and strength properties of frozen ground using an acoustic method. Zykov, I.U.D., et al., [1995,rus] 50-2504
Filtration permeability of permafrost. Olovin, B.A., [1993,rus] 50-89
Finite element analysis of the creep of debris containing thin ice bodies. Azizi, F., et al., [1995,eng] 50-183
Forecasting the composition of post-lacustrine meadows in the Yakutsk Arctic. Bosikov, N.P., [1991,rus] 50-1310
Formation mechanism of the marginal zone of the Warta ice sheet. Terpiłowski, S., [1993,pol] 50-3666
Fossil burrows of mammals in the loess-ice deposits of the Kolyma-Indigirka Lowland. Gubin, S.V., et al., [1996,eng] 50-4146
Geochemical studies of layered ground ice and frozen rocks (from work on Ney-To Lake). Dubikov, G.I., [1983,rus] 50-312
Geocryology research in China in the last decade: review and prospect. Cheng, G.D., [1995,eng] 50-4511
Ground deicing. George, F., [1995,eng] 50-3688
Ground penetrating radar investigations of massive ground ice. Dallimore, S.R., et al., [1992,eng] 50-56
Ground penetrating radar. Pilon, J.A., ed. [1992,eng] 50-54
Ground probing radar investigation of permafrost in northern Quebec. Pilon, J.A., et al., [1992,eng] 50-65
Icing degrades aircraft performance: fluids provide best defense against ice on the ground. [1992,eng] 50-3575
II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973, [1973,rus] 50-5139
Initiation and development of natural ground ice exposures. Canadian Arctic. Lewkowicz, A.G., [1990,eng] 50-1633
Isotope techniques in permafrost investigations. Michel, F.A., [1989,eng] 50-2261
Late Pleistocene soil formation on coastal lowlands of northern Yakutia. Gubin, S.V., [1995,eng] 50-963
Light flash and ionization from hypervelocity impacts on ice. Burchell, M.J., et al., [1996,eng] 50-6530
Living on ice: problems of urban development in Canada's north. French, H.M., [1994,eng] 50-6099
Low brightness temperatures of Martian polar caps: CO_2 clouds or low surface emissivity? Forget, F., et al., [1995,eng] 50-2120
Martian atmospheric carbon 14 as indicator of atmosphere-regolith gas exchange. Jakosky, B.M., et al., [1996,eng] 50-3009
Mechanical properties of high ice content ground as a composite material. Gerasimov, A.S., et al., [1989,rus] 50-2257
Morphological characteristics of large deposits of ground ice in central Yamal. Parmuzin, S.I.U., et al., [1983,rus] 50-311
Naleds in the Suntar-Khayata Mountains. Koreisha, M.M., [1972,rus] 50-552
Near-infrared absorption coefficients of solid nitrogen as a function of temperature. Tryka, K.A., et al., [1995,eng] 50-1078
New results from studies of layered ground ice in Yamal. Dubikov, G.I., et al., [1985,rus] 50-242
New U.S. rules established for aircraft ground deicing and anti-icing. [1992,eng] 50-3576
No ice on board. Johnson, J.P., et al., [1995,eng] 50-1973
Oil and gas development challenges in the Russian Arctic. Ruzhanskii, V.E., et al., [1996,eng] 50-6432
Paleogeographic conditions for the formation of ice in homogeneous age varved clays. Karpov, E.G., et al., [1996,rus] 50-6377
Periodic water saturation of ice wedges: results of an oxygen-18 and deuterium study. Lauriol, B., et al., [1995,fre] 50-667
Permafrost distribution in the southern circumpolar region. Bockheim, J.G., [1995,eng] 50-666
Permafrost on the Qinghai-Xizang Plateau. Li, S.D., et al., [1992,chi] 50-1490
Photochemistry of Triton's atmosphere and ionosphere. Krasnopol'skiy, V.A., et al., [1995,eng] 50-2121
- Pilot techniques during icing conditions. den Hertog, R., [1992,eng] 50-3795
Possible use of the oxygen isotope method to study ground ice and permafrost. Vaikmae, R.A., [1990,rus] 50-1629
Preliminary results of ground ice studies in the Herschel Island area, Yukon coastal plain. Pollard, W.H., [1990,eng] 50-1622
Problems of dead ice and ground ice in the central part of the north European plain. Böse, M., [1995,eng] 50-508
Questions in regional and engineering geocryology. Soboleva, I.V., ed. [1983,rus] 50-307
Reconstruction of the paleotemperature of the air according to ground ice isotopes. Koniakhin, M.A., [1990,rus] 50-1632
Regional geocryological studies; collected scientific papers. Sukhodol'skiy, S.E., ed. [1985,rus] 50-238
Relationship between surface and subsurface glaciation on the East European Plain in the Dnepr cold epoch. Nechaev, V.P., [1996,rus] 50-6357
Satellite regolith frozen ground collapse as solar system geological paradigm. Moore, J.M., et al., [1996,eng] 50-6588
Sedimentary petrogenesis and its characteristics in the cryolithozone. Danilov, I.D., [1995,eng] 50-6074
Small airline continues to win big battle against aircraft ground icing. [1992,eng] 50-3574
Soil freeze-thaw effects on bank erodibility and stability. Gatto, L.W., [1995,eng] 50-2706
Spectral albedos of Charon's surface composition. Roush, T.L., et al., [1996,eng] 50-4002
Student invents a prize-winning ice detector. Rice, D., [1996,eng] 50-5084
Syngenetic layered ground ice in littoral marine deposits in Baydaratskaya Bay. Spesivtsev, V.I., [1996,rus] 50-6384
System for recovery of oil from snow and ice surfaces. Aiken, L.B., [1995,eng] 50-3473
Test program for aircraft ground anti-icing fluids. Myers, B.B., [1992,eng] 50-3797
Thermal erosion in high arctic ecosystems in Spitsbergen. King, L., et al., [1993,eng] 50-843
Titan's surface: composition and variability from the near-infrared albedo. Coustenis, A., et al., [1995,eng] 50-2031
Tritium analysis of ground ice: results and prospects. Chizhov, A.B., et al., [1996,rus] 50-6385
Volcanic and tectonic history of Enceladus. Kargel, J.S., et al., [1996,eng] 50-3864
World of snow and ice. Kotliakov, V.M., [1994,rus] 50-1420
See [also]: Ice lenses; Ice veins; Ice wedges
- Ground temperature**
See [also]: Soil temperature
- Ground thawing**
Accuracy of SPOT digital elevation model and derivatives: utility for Alaska's North Slope. Sasowsky, K.C., et al., [1992,eng] 50-1448
Anthropogenic climate change and reduction of water resources. Golubtsov, V.V., et al., [1996,eng] 50-5055
Application of foam insulation for remediation of degraded permafrost. Feklistov, V.N., et al., [1996,eng] 50-5472
Application of pipe temperature simulator for Norman Wells oil pipeline. Nixon, J.F., et al., [1996,eng] 50-4306
Boreal forest catchments: research sites for global change at high latitudes. Slaughter, C.W., et al., [1995,eng] 50-767
Climatic warming and the degradation of warm permafrost. Lunardini, V.J., [1996,eng] 50-6482
Compressibility of perennally frozen loams in Chita. Torgashev, V.V., et al., [1993,rus] 50-126
Compressibility of thawing ground. Petrov, V.S., [1993,rus] 50-125
Computer simulation of heat conduction in freezing and thawing soils. Hashemi, H.T., et al., [1966,eng] 50-4605
Correlation between Pleistocene involutions in English soil and Canadian thermokarst. Munton, J.B., et al., [1995,eng] 50-1803
Creation of high-productive seeding meadows on disturbed arctic lands. Tikhmenev, E.A., [1991,eng] 50-1744
Deformation of frozen sandy soils with a cloddy structure during thawing. Shevchenko, L.V., et al., [1996,rus] 50-6832
Degradation of the cryolithozone in Russia under global climatic warming. Ershov, E.D., et al., [1996,rus] 50-6840
Ecological monitoring of territories with oil and gas reserves in the cryolithozone. Antonov-Druzhinin, V.P., et al., [1990,rus] 50-1605
Effect of the seasonal thaw layer in rocks on their deformation properties. Khamin, M.N., [1993,rus] 50-122
Effects of global warming on building construction on permafrost. Khrustalev, L.N., [1996,eng] 50-5861
Estimation of climate change effect on the runoff: catchment-scale application of SOIL-model. Roos, J., et al., [1994,eng] 50-3194
Evaluating the stability of natural complexes in tundra under technogenic disturbances. Demanov, V.E., et al., [1994,rus] 50-259
Forecasting deformation properties of thawing sandy soils according to data from compression tests. Gerasimov, A.S., et al., [1989,rus] 50-2300
Forecasting gully erosion in Yamburg. Skubitskaia, M.G., [1996,rus] 50-6406
Forecasting seismic effects under cryolithozone conditions. Dzhurik, V.I., [1995,rus] 50-2506
Forecasting settlement during the thawing of frozen ground in Ural. Evushenko, S.I., et al., [1985,rus] 50-246
Hydraulic mining of permafrost placers by boreholes. Khulev, A.S., [1991,eng] 50-1716

Ground water

- Improving foundations in permafrost (in the example of the Noril'sk industrial region). Rastegaev, I.K., et al. [1989.rus] 50-2302
- Influence of local factors on solifluction rates, Spitsbergen, Svalbard. Repelewski-Pekalowa, J., et al. [1993.eng] 50-842
- Mathematical analysis of the flow of soils down a slope. Petrov, V.S., et al. [1993.rus] 50-119
- Method of controlling spring snow thawing on slopes. Feodorov, L., [1993.eng] 50-2238
- Method of excavating in frozen ground. Mukhametdinov, Kh.K., et al. [1992.rus] 50-1944
- Microwave thawing of frozen soils and gravels. Lindroth, D.P., et al. [1995.eng] 50-359
- Model test of ground temperature variation of embankment. Ye, B.Y., et al. [1989.chi] 50-1396
- Modelling and calculating the thermoplastic state of frozen ground. Dubina, M.M., et al. [1991.rus] 50-5054
- Mountain permafrost and slope instability in the Italian Alps: the Val Pola landslide. Dramis, F., et al. [1995.eng] 50-669
- Oilwell casing downdrag from subsidence at Prudhoe Bay. Nair, K., et al. [1971.eng] 50-4196
- On filtering consolidation of ground during pre-construction thawing. Barsegian, R.M., et al. [1996.rus] 50-6831
- Permafrost and climate change: geotechnical implications. Williams, P.J., [1995.eng] 50-5238
- Permafrost and the environment in Alaska. Lotspeich, F.B., [1973.eng] 50-854
- Permafrost degeneration in the east of Tibetan Plateau. Zhu, L.N., et al. [1995.chi] 50-5618
- Permafrost degradation in the Greater Khingan Range. Yuan, H.Y., [1989.chi] 50-1349
- Permafrost soil thawing after forest fires. Swanson, D.K., [1996.eng] 50-5497
- Preparation for excavation of frozen sands by using high frequency currents. Mal'kov, I.U.K., [1992.rus] 50-819
- Prospects for using geochemical methods in forecasting and evaluating technogenic talik zones. Tregubov, O.D., [1996.rus] 50-6855
- Railway on permafrost in Siberia. Gravesen, H., et al. [1995.eng] 50-2960
- Regional forecasting of cryogenic processes and ecology of the cryolithozone. Grechishchev, S.E., [1990.rus] 50-1598
- Results of experimental studies on resistance of thawing ground to a normal load. Torgashev, V.V., [1993.rus] 50-129
- Runoff index values for frozen soil areas of the Pacific Northwest. McCool, D.K., et al. [1995.eng] 50-3525
- Seasonal freezing and soil erosion during snowmelt. Demidov, V.V., et al. [1995.eng] 50-2714
- Slope stability problems in open pit coal mines in permafrost regions. Vakili, J., [1991.eng] 50-1749
- Solifluction as a function of strength in thawing soil. Bondarenko, G.I., [1996.rus] 50-6401
- Strength sensitivity index for assessing climate warming effects on permafrost. Ladanyi, B., [1996.eng] 50-6110
- Study of deformation properties of freezing and thawing soils for cold weather construction. Ganeles, L.B., et al. [1989.rus] 50-2252
- Technogenic naled formation around the city of Anadyr'. Kotov, A.N., [1996.rus] 50-6854
- Thaw settlement of seasonally frozen soil. Cheng, E.Y., et al. [1989.chi] 50-1377
- Thermal calculations for pipe laying in frozen ground. Daniel, I.U.S., et al. [1990.rus] 50-1618
- Unfrozen water content of soil containing NaCl relating to freezing-thawing processes. Zhang, L.X., et al. [1995.chi] 50-5637
- Ground water**
- Air conditioning using snow thermal storage in aquifers. Umemiya, H., [1988.jp] 50-2279
- Analysis of the water and salt balance of the irrigated areas in the Yangqi Basin. Song, Y.D., et al. [1991.chi] 50-5121
- ARNO rainfall-runoff model. Todini, E., [1996.eng] 50-3729
- Comparison criteria for environmental chemical analyses of split samples sent to different laboratories. Grant, C.L., et al. [1996.eng] 50-5912
- Contamination of groundwaters. Adriano, D.C., ed. et al. [1994.eng] 50-5515
- Cryolithozone structure in an oil and gas-bearing province supply. Dedeev, V.A., et al. [1990.rus] 50-1630
- Current problems in the Aral Sea and prospects for their solutions. Tsytsarin, A.G., et al. [1991.rus] 50-731
- Diagnostics of solonchaks: a class of salt-rich soils. Pankova, E.I., et al. [1995.eng] 50-3874
- Distribution, origin, and hydraulic influence of fractures in a clay-rich glacial deposit. McKay, L.D., et al. [1995.eng] 50-3254
- Dynamics of underground waters in Calypsostranda region in 1990 (Western Spitsbergen). Bartoszewski, S., [1993.eng] 50-2194
- Ecological problems in the cryogenic-hydrogeological conditions in northwestern Siberia. Petrova, R.G., et al. [1996.rus] 50-6847
- Effect of seasonal freezing on the formation of naleds in northern Transbaikalia. Beliaikov, A.E., [1993.rus] 50-115
- Geocryological characteristics of the intermontane troughs in the Altay Mountains. Kuskovskii, V.S., [1996.rus] 50-6364
- Geological specifics in the natural dynamics of the subarctic cryolithozone. Oberman, N.G., [1996.rus] 50-6850
- Groundwater flow and heat conduction in soil around a freeze pipe. Hashemi, H.T., et al. [1966.eng] 50-4606

- Groundwater flow beneath ice sheets: part I—large scale patterns. Boulton, G.S., et al. [1995.eng] 50-2128
- Groundwater flow through Ontario glacial deposits. Gerber, R.E., et al. [1996.eng] 50-6750
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995.eng] 50-3125
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995.eng] 50-6043
- Hydrologic role of soils and ecological methods of regulating water resources. Voronkov, N.A., [1995.eng] 50-3879
- Impact of glaciation on the groundwater regime of northwest Europe. Boulton, G.S., et al. [1996.eng] 50-5326
- Impact of subglacial groundwater flow on moraine formation. Boulton, G.S., et al. [1995.eng] 50-2129
- In situ bioremediation in arctic Canada. Carss, J.G., et al. [1994.eng] 50-1472
- Isotope techniques in permafrost investigations. Michel, F.A., [1989.eng] 50-2261
- Isotopic analysis of groundwater in the Taklimakan Desert. Ushiki, H., et al. [1991.jp] 50-1435
- Literature review on decontaminating groundwater sampling devices: organic pollutants. Parker, L.V., [1995.eng] 50-729
- Material interactions when sampling groundwater. Parker, L.V., [1995.eng] 50-2456
- Modeling the effects of climatic change on phosphorus transport from a drainage basin. Bileletdin, A., et al. [1994.eng] 50-3199
- Nitrogen soil dynamics in an arctic lowland ecosystem. Chapin, D.M., [1996.eng] 50-4340
- Physical properties governing groundwater flow in a glacial till catchment. Hinton, M.J., et al. [1993.eng] 50-3693
- Plant nutrient runoff in Norwegian watersheds. Haraldsen, T.K., et al. [1995.eng] 50-741
- Possible consequences of glacially induced groundwater flow. Forsberg, C.F., [1996.eng] 50-5325
- Problems in protecting the geological environment: in the example of Eastern Siberia. Pinneker, E.V., ed. [1993.rus] 50-91
- Report on acidification in the arctic countries. Nenonen, M., [1991.eng] 50-3418
- Response of leaching from mire ecosystems to changing climate. Sallantausta, T., [1994.eng] 50-3222
- Runoff modeling of a small river basin. Ambrose, B., et al. [1996.eng] 50-6586
- Sampling trace-level organics with polymeric tubings. Parker, L.V., et al. [1996.eng] 50-5672
- Snowmelt water resources from aquifers. Kimura, S., [1988.jp] 50-2285
- Soil properties beneath ceanethus and pine stands in the eastern Sierra Nevada. Johnson, D.W., [1995.eng] 50-630
- Solid phase extraction of nitroaromatics from water. Jenkins, T.F., et al. [1995.eng] 50-1977
- Sorption and leaching of trace-level metals by polymeric well casings. Ranney, T.A., et al. [1996.eng] 50-5911
- Source areas for storm runoff generation estimated by isotope methods and the TOPMODEL. Lepistö, A., et al. [1994.eng] 50-3193
- Streamflow generation in a headwater basin on the Precambrian Shield. Wels, C., et al. [1991.eng] 50-3680
- Technogenic naled formation around the city of Anadyr'. Kotov, A.N., [1996.rus] 50-6854
- Transient hydrogeological controls on the chemistry of a seepage lake. Krabbenhoft, D.P., et al. [1995.eng] 50-2730
- Use and protection of ground water from depletion and pollution (Magadan). Elinek, L.I.A., [1991.rus] 50-440
- Using geophysical methods to study characteristics of the Dzhanik Glacier moraines. Aleshin, A.S., et al. [1972.rus] 50-526
- Water resources data for Alaska, water year 1994. Bigelow, B.B., et al. [1995.eng] 50-2169
- Wetlands and ground water in the United States. Stone, A.W., et al. [1994.eng] 50-971
- Winter low-flow balance of the semiarid White River, Nebraska and South Dakota. Ferrick, M.G., et al. [1995.eng] 50-1074
- See (also): Soil water; Subpermafrost ground water; Suprapermafrost ground water; Water table
- Grounded ice**
- Algorithm modeling stress gradients in grounded glaciers. Blatter, H., [1995.eng] 50-454
- Chronology of late Wisconsin ice retreat from the western Ross Sea, Antarctica. Licht, K.J., et al. [1996.eng] 50-3814
- Distinct element modelling of seabed-ice rubble interaction. Evgin, E., et al. [1993.eng] 50-5597
- Effects of moraine-bank sediment budgets on valley glacier stability. Hunter, L.E., et al. [1996.eng] 50-6263
- Flux of debris transported by ice at three Alaskan tidewater glaciers. Hunter, L.E., et al. [1996.eng] 50-4897
- Glacial geomorphic features in the northern Barents Sea. Solheim, A., et al. [1990.eng] 50-927
- Glacial influence on offshore Norwegian sediment properties. Sætern, J., et al. [1996.eng] 50-5320
- Iceberg observations and estimation of submarine ridges in the western Weddell Sea. Viehoff, T., et al. [1995.eng] 50-1818
- Impact of iceberg scouring on polar benthic habitats. Gunn, J., et al. [1996.eng] 50-6567
- Internal and basal ice changes near the grounding line derived from radio-echo sounding. Uratsuka, S., et al. [1996.eng] 50-4895
- Last deglaciation of the Franz Victoria Trough, northern Barents Sea. Lubinski, D.J., et al. [1996.eng] 50-6535
- Limits on the areal extent of the Barents Sea ice sheet in Late Weichselian time. Lambeck, K., [1996.eng] 50-5307

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- Model of shoreward movement of grounded lake ice. Sasaki, T., et al. [1995.eng] 50-3329
- Moraine bank ground-line process during coastal Maine deglaciation. Hunter, L.E., et al. [1996.eng] 50-6532
- Numerical modelling of ice jam resistance to main channel flow. Saadé, R.G., et al. [1995.eng] 50-6206
- Numerical modelling of ice sheet fluctuation in the Russian Arctic. Siegert, M.J., et al. [1995.eng] 50-1800
- Observations of the grounding-line area at a floating glacier terminus. Powell, R.D., et al. [1996.eng] 50-6264
- Possible consequences of glacially induced groundwater flow. Forsberg, C.F., [1996.eng] 50-5325
- Satellite imagery of the onset of streaming flow of ice streams C and D, West Antarctica. Hodge, S.M., et al. [1996.eng] 50-4301
- Sea ice formation in Cook Inlet Alaska: a high energy environment. Nelson, W.G., [1995.eng] 50-2944
- Thrusting and debris entrainment in a surging glacier: Bakaninbreen, Svalbard. Hambrey, M.J., et al. [1996.eng] 50-6267
- Topographic control on the dynamics of the Svalbard-Barents Sea ice sheet. Siegert, M.J., et al. [1996.eng] 50-5306
- Grounding**
- See (also): Electrical grounding
- Grouting**
- Basic properties of expansive admixture with anti-freezing admixture in a grout. Nakamura, H., et al. [1995.eng] 50-2643
- Fixing frozen leaks in a dam in Hokkaido. Takada, K., et al. [1995.jp] 50-6738
- Long-term pile load testing system performance in saline and ice-rich permafrost. Biggar, K.W., et al. [1996.eng] 50-6427
- Growing season**
- Increased assimilation of CO₂ by northern land plants. Keeling, C.D., et al. [1996.eng] 50-5524
- Growth**
- Adaptation of tree seedlings to subalpine meadow soil moisture variations. Kuuluvainen, T., et al. [1996.eng] 50-4337
- Arctic and alpine biodiversity: patterns, causes and ecosystem consequences. [1995.eng] 50-3888
- Arctic dwarf shrub response to simulated climatic warming. Michelsen, A., et al. [1996.eng] 50-5770
- Causes and consequences of plant functional diversity in arctic ecosystems. Chapin, F.S., III, et al. [1995.eng] 50-3902
- Chemistry of artificial snow and its influence on the germination of mountain flora. Jones, H.G., et al. [1995.eng] 50-2428
- Condition and recent trends in high-elevation red spruce populations. Peart, D.R., et al. [1992.eng] 50-4053
- Dendroecology of red spruce decline. Cook, E.R., et al. [1992.eng] 50-4054
- Ecological significance of German mountain periglacial deposits. Fröhlich, M., [1990.ger] 50-4565
- Ecology and decline of red spruce in the eastern United States. Eagar, C., ed. et al. [1992.eng] 50-4049
- Ecology of an alpine cushion plant. Owen, W.R., [1995.eng] 50-1540
- Effect of root fungi on subarctic plant growth. Fernando, A.A., et al. [1996.eng] 50-6747
- Effects of air pollution on carbon allocation in red spruce. McLaughlin, S.B., et al. [1992.eng] 50-4058
- Effects of enhanced UV-B radiation on the growth of dwarf shrubs in a subarctic heathland. Johanson, U., et al. [1995.eng] 50-3618
- Effects of nutrient availability on arctic sedge growth. Gebauer, R.L.E., et al. [1995.eng] 50-2540
- Evergreen shrub leaf variations in taiga and tundra landscapes. Kudo, G., [1995.eng] 50-2732
- Fatty acid adaptation in an antarctic bacterium—changes in primer utilization. Nichols, D.S., et al. [1996.eng] 50-4797
- Fatty acid adaptation in an antarctic bacterium—changes in primer utilization. Nichols, D.S., et al. [1996.eng] 50-4797
- Frost damage to northern trees during climatic warming. Hänninen, H., [1996.eng] 50-6631
- Frost heaving of forest tree seedlings: a review. Goulet, F., [1995.eng] 50-6520
- Functional significance of inflorescence pubescence in tropical alpine species of *Puya*. Miller, G.A., [1994.eng] 50-3053
- Germination properties of herb perennials on Mt. Fuji. Nishitani, S., et al. [1996.eng] 50-4343
- Grass photosynthesis variations under cold climatic conditions. Siurkka, A.V., et al. [1996.eng] 50-6754
- Growth curves for calcium-tolerant lichens in the Canadian Rocky Mountains. McCarthy, D.P., et al. [1995.eng] 50-3330
- Growth dynamics and population development in an alpine grassland under elevated CO₂. Schappi, B., [1996.eng] 50-5779
- Growth response of mosses to simulated subarctic environmental change. Potter, J.A., et al. [1995.eng] 50-3860
- Growth responses of an alpine grassland to elevated CO₂. Schappi, B., et al. [1996.eng] 50-5771
- Growth temperature preferences of fungal strains from Victoria Land, Antarctica. Zucconi, L., et al. [1996.eng] 50-4009
- Herb germination ecology in Yellowstone National Park. Romme, W.H., et al. [1995.eng] 50-2816
- Herb reproductive timing in relation to snow conditions. Morton, M.L., [1994.eng] 50-1542
- Introduction to tropical alpine vegetation. Smith, A.P., [1994.eng] 50-3044
- Leaf extract allelopathic effects on arctic graminoids. Michelsen, A., et al. [1995.eng] 50-1091

Gullies

- Little Ice Age temperature estimated by arctic heather growth variations. Havström, M., et al. [1995.eng] 50-1121
- Low temperature ecology of a plant root bacterium. Sun, X.Y., et al. [1995.eng] 50-2733
- Micrometeorological effects on alpine vegetation reproduction. Bergman, P., et al. [1996.eng] 50-5494
- Microsporogenesis of the Siberian larch in western Siberian Zapolyar'e. Rozhdestvenskii, I.U.F., et al. [1995.eng] 50-3966
- Modelling the controls on boreal tree species range limits. Sykes, M.T., et al. [1995.eng] 50-770
- Mollusc population dynamics on the antarctic shelf ocean bottom. Brey, T., et al. [1993.eng] 50-3395
- Morphological and physiological radiation in páramo *Draba*. Pfisch, W.A., [1994.eng] 50-3051
- Nutrient availability in Alaskan upland forest sites. Yarie, J., et al. [1994.eng] 50-4798
- Occurrence of sub-ice algal aggregations off northeast Greenland. Gutt, J., [1995.eng] 50-163
- Overview of the reproductive biology of *Espeletia* (Asteraceae) in the Venezuelan Andes. Berry, P.E., et al. [1994.eng] 50-3056
- Patterns and causes of genetic diversity in arctic plants. McGraw, J.B., [1995.eng] 50-3891
- Phenotypic plasticity in leaves of four species of arctic *Festuca* (Poaceae). Ramesar-Fortner, N.S., et al. [1995.eng] 50-3301
- Plankton bloom in a Greenland pingo. Kristiansen, J., et al. [1995.eng] 50-366
- Plant communities in alpine habitat with special reference to Garhwal Himalaya. Rawat, D.S., et al. [1994.eng] 50-5420
- Plant form and function in alpine New Guinea. Hnatiuk, R.J., [1994.eng] 50-3060
- Population biology of *Senecio keniodendron* (Asteraceae) and Afroalpine giant rosette plant. Smith, A.P., et al. [1994.eng] 50-3058
- Population dynamics of a Hawaiian alpine rosette plant. Rundel, P.W., et al. [1994.eng] 50-3059
- Potential climatic change effects on western Canadian forests. Burton, P.J., et al. [1995.eng] 50-769
- Preliminary study on the growth rate of major forest communities in the Greater Khingan Range. Gu, Y.C., [1991.chi] 50-5851
- Recent advance of the arctic treeline along the eastern coast of Hudson Bay. Lescoeur-Sinclair, K., et al. [1995.eng] 50-3041
- Recent white spruce dynamics at the subarctic alpine treeline of north-western Canada. Szeicz, J.M., et al. [1995.eng] 50-3036
- Response functions of tree-ring chronologies in western Tianshan Mountains. Yuan, Y.J., et al. [1995.chi] 50-5626
- Seed germination and seedling growth of *Carex doerrii* growing on alpine zone of Mt. Fuji. Kibe, T., et al. [1993.eng] 50-956
- Seed rain, seedling establishment and clonal growth strategies on a glacier foreland. Stöcklin, J., et al. [1996.eng] 50-5295
- Selection of cold-tolerant plants for growth in soils contaminated with organics. Rogers, H.B., et al. [1995.eng] 50-4609
- Simulation of Scots pine regeneration under changing Finnish climate. Kellomäki, S., et al. [1995.eng] 50-1089
- Snow damage to spruce trees during a fertilization experiment. Valinger, E., et al. [1996.eng] 50-4330
- Soil nutrient dynamics in East African alpine ecosystems. Rehder, H., [1994.eng] 50-3055
- Survival and regeneration of dormant silver birch buds stored at super-low temperatures. Ryyänen, L., [1996.eng] 50-6745
- Swedish forest production losses due to summer frost. Verwijst, T., et al. [1996.eng] 50-6753
- Synthesis and conclusions from studies of red spruce decline. Johnson, A.H., et al. [1992.eng] 50-4059
- Tibetan alpine ecosystem response to climatic changes. Zhang, Y.Q., et al. [1996.eng] 50-5495
- Tree ring value determination of climatic change in Switzerland. Vogel, R.B., et al. [1996.ger] 50-6714
- Tree seedling and krummholz growth in the forest tundra of Rocky Mountain National Park. Weisberg, P.J., et al. [1995.eng] 50-72
- Tropical alpine ecology: progress and priorities. Rundel, P.W., et al. [1994.eng] 50-3061
- Tropical alpine environments—plant form and function. Rundel, P.W., ed. et al. [1994.eng] 50-3043
- Turnover and conservation of nutrients in the pachycaul *Senecio keniodendron*. Beck, E., [1994.eng] 50-3054
- Tussock grass community in a Himalayan alpine grassland. Rikhiari, H.C., et al. [1994.eng] 50-5428
- White spruce light rings in northwestern Canada. Szeicz, J.M., [1996.eng] 50-5492

Gullies

- Characteristics of the development of thermo-erosional gullies on mid-alassy slopes. Varlamov, S.P., [1996.rus] 50-6405
- Forecasting gully erosion in Yamburg. Skubitskaia, M.G., [1996.rus] 50-6406
- Stationary study of the dynamics of shoreline slopes in the Bol'shezemel'skaya tundra. Glavatskiikh, V.V., et al. [1996.rus] 50-6410
- Hail**
- Alberta Hail Project Data Archive available on the World Wide Web. Kochubajda, B., et al. [1996.eng] 50-5201
- Crop-hail damage in the Midwest corn belt. Hillaker, H.J., Jr., et al. [1985.eng] 50-4592
- Detection and prediction of hail with Meteosat data. Messmer, B., et al. [1995.ger] 50-2539

- Explicit cloud physics parameterization for operational numerical weather prediction. Schultz, P., [1995.eng] 50-1529
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- Hail protection**
- See [also]: Hail prevention
- Hail suppression**
- See [also]: Hail prevention
- Hailstone electrification**
- Electrification produced by the growth of soft hail in thunderclouds. Latham, J., [1965.eng] 50-3945
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- Results from the 1994 Boreal Ecosystem-Atmosphere Study (BOREAS). Sellers, P., et al. [1995,eng] 50-4574
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- See [also]: Heat transfer; Ice heat flux; Snow heat flux
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- Air conditioning using snow thermal storage in aquifers. Umeyama, H., [1988,jpn] 50-2279
 Analysis of the transient response of a thermal energy storage unit. Kuznetsov, A.V., [1996,eng] 50-6472
 Application of a snow melting system using heat pipes with electric cartridge heaters. Egawa, H., et al., [1996,eng] 50-6492

- Capsule-type thermal energy storage system. Ishikawa, M., et al., [1996,eng] 50-6446

- Controlled melting in a thermal storage phase change material. Prasad, A., et al., [1996,eng] 50-6448

- Cool thermal discharges from ice melting with specified heat fluxes on the boundary. Yeh, H.M., et al., [1996,eng] 50-5521

- Current technology of snow melting system using heat pipes in Japan. Sugihara, S., et al., [1996,eng] 50-6489

- Design, building and testing of a latent heat thermal energy storage element. Millette, J., et al., [1996,eng] 50-6442

- Diesel heat recovery plant related to local heating and electricity production. Niemi, S., [1984,eng] 50-3162

- Direct contact melting process on a curved wall coated with a porous layer. Oka, M., et al., [1996,eng] 50-6451

- Experimental study of the melting from discrete heat sources in a vertical enclosure. Duong, T., et al., [1996,eng] 50-6450

- Forced-convection melting characteristics of liquid ice in a horizontal rectangular duct. Yamada, M., et al., [1996,eng] 50-6465

- Ground-coupled heat pumps for family housing units. Phetteplace, G., [1995,eng] 50-2459

- Ground-coupled heat pumps. Phetteplace, G., [1995,eng] 50-2465

- Heat pipes and heat pumps for cold regions applications. Vasil'ev, L.L., [1996,eng] 50-6490

- Heat transfer and convection in an enclosure with a heat-conducting body. Oh, J.Y., et al., [1996,eng] 50-6473

- Heat transfer in a two-phase closed thermosiphon: horizontal flat plate type. Pioro, L.L., et al., [1996,eng] 50-6493

- Hybrid system of latent heat storage and spray flash evaporation. Miyatake, O., et al., [1996,eng] 50-6444

- Latent heat thermal energy storage system using spherical capsules. Saitoh, T., et al., [1996,eng] 50-6443

- Modeling of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al., [1996,eng] 50-6715

- Non-traditional thermosiphons for cold regions. Antoshko, I.U.V., [1996,eng] 50-6491

- Nuclear energy for district heating. Bodh, R.M., [1984,eng] 50-3163

- Performance of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al., [1996,eng] 50-3408

- Proceedings. International Conference on Engineering and Development in Northern Regions, Sapporo, Japan, Jan. 31-Feb. 2, 1983, [1984,eng] 50-3158

- Proceedings. International Symposium on Thermal Engineering and Sciences for Cold Regions, 5th, Ottawa, May 19-22, 1996, [1996,eng] 50-6428

- Thermal performance of a planar latent heat storage unit for load shifting. Laouadi, A., et al., [1996,eng] 50-6468

- Three dimensional modelling of a soil heat exchanger-storage system for greenhouses. Gauthier, C., et al., [1996,eng] 50-6445

- Using district heating pipes for freeze protection of sewer pipes. Reeve, H.E., et al., [1996,eng] 50-6440

Heat sinks

- Analysis of the transient response of a thermal energy storage unit. Kuznetsov, A.V., [1996,eng] 50-6472

- Capsule-type thermal energy storage system. Ishikawa, M., et al., [1996,eng] 50-6446

- Conduction in convecting and radiating fins and fin assemblies. Aziz, A., et al., [1995,eng] 50-2455

- Controlled melting in a thermal storage phase change material. Prasad, A., et al., [1996,eng] 50-6448

- Design, building and testing of a latent heat thermal energy storage element. Millette, J., et al., [1996,eng] 50-6442

- Direct contact melting process on a curved wall coated with a porous layer. Oka, M., et al., [1996,eng] 50-6451

- Forced-convection melting characteristics of liquid ice in a horizontal rectangular duct. Yamada, M., et al., [1996,eng] 50-6465

- Hybrid system of latent heat storage and spray flash evaporation. Miyatake, O., et al., [1996,eng] 50-6444

- Latent heat thermal energy storage system using spherical capsules. Saitoh, T., et al., [1996,eng] 50-6443

- Thermal performance of a planar latent heat storage unit for load shifting. Laouadi, A., et al., [1996,eng] 50-6468

Heat sources

- Design, building and testing of a latent heat thermal energy storage element. Millette, J., et al., [1996,eng] 50-6442
 Experimental study of the melting from discrete heat sources in a vertical enclosure. Duong, T., et al., [1996,eng] 50-6450
 Heat and moisture supply of natural biogeocenoses in the Northern, Subpolar and Polar Urals. Belonenko, G.V., et al., [1994,rus] 50-269

- Heat transfer and convection in an enclosure with a heat-conducting body. Oh, J.Y., et al., [1996,eng] 50-6473

- Heat transfer in a two-phase closed thermosiphon: horizontal flat plate type. Pioro, L.L., et al., [1996,eng] 50-6493

- Heat transfer of air flow between inclined plates of a solar collector. Ali, A.H.H., et al., [1996,eng] 50-6478

- Non-traditional thermosiphons for cold regions. Antoshko, I.U.V., [1996,eng] 50-6491

- Performance of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al., [1996,eng] 50-3408

- Producing energy for polar stations from the wind-water temperature gradient. LeGoff, H., et al., [1994,eng] 50-4275

- Russian alternative energy sources in the Antarctic. Sheinstein, A.S., [1994,eng] 50-4276

- Status report on alternative energy systems at antarctic stations. Guichard, A., [1994,eng] 50-6423

- Using solar energy at the South Pole: photovoltaic electricity and solar heating. Wills, R.H., [1988,eng] 50-3880

Heat transfer

- Actual conditions and problems in air conditioning of buildings by ice thermal storage. Ibamoto, T., [1988,jpn] 50-2275

- Advective-diffusive heat transfer in snow: Albert, M.R., [1995,eng] 50-945

- Aircraft icing handbook. [1993,eng] 50-5064

- Analysis of ice-formation in a stenotic tube. Suh, J.S., et al., [1996,eng] 50-6460

- Analysis of the transient response of a thermal energy storage unit. Kuznetsov, A.V., [1996,eng] 50-6472

- Anatomy of the Arctic Frontal Zone in the Greenland Sea. van Aken, H.M., et al., [1995,eng] 50-573

- Anti-icing system for a gas turbine engine. Mouton, P.C., [1995,eng] 50-3463

- Application of a snow melting system using heat pipes with electric cartridge heaters. Egawa, H., et al., [1996,eng] 50-6492

- Arctic Ocean—a special natural cryogenic system. Danilov, I.D., [1996,rus] 50-6374

- Augmentation or suppression of ice accumulation on a cold flat-plate in water-flow channel. Hirata, T., et al., [1996,eng] 50-6462

- Automated nowcasting model of road surface temperature and state for winter road maintenance. Shao, J., et al., [1996,eng] 50-6571

- Buoys in the Arctic study heat exchange. Honjo, S.S., et al., [1996,eng] 50-6334

- C-band backscatter measurements of winter sea-ice in the Weddell Sea, Antarctica. Drinkwater, M.R., et al., [1995,eng] 50-1817

- Capsule-type thermal energy storage system. Ishikawa, M., et al., [1996,eng] 50-6446

- Case study of turbulent parameters during the antarctic winter. Yagüe, C., et al., [1995,eng] 50-1339

- Conduction in convecting and radiating fins and fin assemblies. Aziz, A., et al., [1995,eng] 50-2455

- Controlled melting in a thermal storage phase change material. Prasad, A., et al., [1996,eng] 50-6448

- Convection and freezing around a cylinder in a saturated medium. Okada, M., et al., [1996,eng] 50-6455

- Convective heat transfer of rotating ice spheroids: rough hailstones. Zheng, G.G., et al., [1996,eng] 50-6471

- Current technology of snow melting system using heat pipes in Japan. Sugihara, S., et al., [1996,eng] 50-6489

- Design, building and testing of a latent heat thermal energy storage element. Millette, J., et al., [1996,eng] 50-6442

- Development of models of freezing and convection during cryogenic pipe freezing. Keary, A.C., et al., [1996,eng] 50-6464

- Device for preventing water from freezing. Turutin, B.F., et al., [1992,rus] 50-1950

- Direct contact melting process on a curved wall coated with a porous layer. Oka, M., et al., [1996,eng] 50-6451

- Drilling waste disposal in the Arctic using below-grade freeze-back. Maund, T.E., et al., [1991,eng] 50-1697

- Effect of soil-ground and surface conditions on the insulating properties of snow cover. Konstantinov, P.I.A., [1996,rus] 50-6393

- Elementary circulation mechanisms and external mass and energy exchange on Svalbard glaciers. Markin, V.A., [1972,rus] 50-524

- Experimental closure of the heat and mass transfer theory of spheroidal hailstones. Greenan, B.J.W., et al., [1995,eng] 50-2117

- Experimental study of the melting from discrete heat sources in a vertical enclosure. Duong, T., et al., [1996,eng] 50-6450

- Forecasting earth surface temperature for the optimal application of frost protection methods. Krasovitski, B., et al., [1996,eng] 50-5021

- Formation of ice layers in a straight walled, rectangular diffuser. Neumann, S.O., et al., [1996,eng] 50-6469

- Freeze closing of a convectively cooled parallel plate channel. Lipnicki, Z., et al., [1996,eng] 50-6461

- Freeze concentration by layer crystallization. Flesland, O., [1995,eng] 50-5943

- Freezing of a liquid jet on the inside surface of a cold pipe. Naraghi, M.N., [1994,eng] 50-691

- Freezing of liquids in a laminar flow in a heat flux cooled circular duct. Prasad, A., et al., [1996,eng] 50-6463

- Freezing purification system and method for decontamination and desalination of water. Hussein, A.A., et al., [1995,eng] 50-3456

- Frozen startup in heat pipes. Faghri, A., [1995,eng] 50-3517

- Ground-coupled heat pumps. Phetteplace, G., [1995,eng] 50-2465

- Heat balance integral method and freezing problems. Lunardini, V.J., [1996,eng] 50-6429

- Heat flow in the cryolithosphere in relation to subsurface heat flow. Deviatkin, V.N., et al., [1990,rus] 50-1626

- Heat flow in the lithosphere in the western Siberian platform. Deviatkin, V.N., et al., [1996,rus] 50-6392

- Heat pipes and heat pumps for cold regions applications. Vasil'ev, L.L., [1996,eng] 50-6490

- Heat transfer and convection in an enclosure with a heat-conducting body. Oh, J.Y., et al., [1996,eng] 50-6473

- Heat transfer and frost-thaw penetration in soil surrounding an inclusion of sand. Peck, L., et al., [1995,eng] 50-726

- Heat transfer during a water jet impinging on the underside of ice. Bhansali, A.P., [1994,eng] 50-678

- Heat transfer during the freezing of water in a cylinder. Yim, C.S., et al., [1996,eng] 50-6466

- Heat transfer in a snow cover. Zviagin, V.V., et al., [1990,rus] 50-1614

- Heat transfer in a two-phase closed thermosiphon: horizontal flat plate type. Pioro, L.L., et al., [1996,eng] 50-6493

- Heat transfer in an ice-water saturated porous medium. Zhang, X.L., [1993,eng] 50-5782

- Heat transfer in staggered and in-line tube bank designs for ice making. Intemann, P.A., et al., [1996,eng] 50-6447

- Heat transfer of air flow between inclined plates of a solar collector. Ali, A.H.H., et al., [1996,eng] 50-6478

- History of cold regions heat transfer: chronology. Cheng, K.C., et al., [1996,eng] 50-6433

- Hybrid system of latent heat storage and spray flash evaporation. Miyatake, O., et al., [1996,eng] 50-6444

- Infiltration of snowmelt and heat transfer into frozen soil. Zhao, L.T., et al., [1996,eng] 50-6480

- Influence of supercooling on salt-water saturated porous medium. Okada, M., et al., [1996,eng] 50-6762

- Latent heat thermal energy storage system using spherical capsules. Saitoh, T., et al., [1996,eng] 50-6443

- Magnetic resonance imaging of gel phase transformations. Hong, J.S., et al., [1995,eng] 50-2739

- Mathematical model of the freezing-thawing of saline frozen soil. Vasil'ev, V.I., et al., [1996,eng] 50-5268

- Meaningful wind chill indicators derived from heat transfer principles. Brauner, N., et al., [1995,eng] 50-1552

- Melting driven thermohaline convection. Bénard, C., et al., [1996,eng] 50-3611

- Melting heat transfer of a horizontal ice cylinder immersed within an immiscible liquid. Yamada, M., et al., [1996,eng] 50-6456

- Melting inside a cylinder filled with phase change material. Back, Y.R., et al., [1996,eng] 50-6457

- Method for determining the thermal contact resistance of the thermal probe in situ. Rolfe, K.C., et al., [1996,eng] 50-6474

- Micro-solidification of solutions with supercooling. Hayashi, Y., [1996,eng] 50-6431

- Modeling of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al., [1996,eng] 50-6715

- Modelling of frost formation in rotary heat exchangers. Bilo-deau, S., et al., [1996,eng] 50-6477

- Natural convection for the melting of ice in porous media in a rectangular enclosure. Chang, W.J., et al., [1996,eng] 50-4533

- Non-traditional thermosiphons for cold regions. Antoshko, I.U.V., [1996,eng] 50-6491

- Numerical models of heat transfer during food freezing. Tocci, A.M., et al., [1995,eng] 50-596

- Numerical simulation of arctic stratus cloud turbulence. Smith, W.S., et al., [1996,eng] 50-2773

- Observation of momentum and heat transfers between ocean and atmosphere in the Chukchi Sea. Sasaki, Y., et al., [1996,eng] 50-4479

- Optimal design of piping systems for district heating. Phetteplace, G., [1995,eng] 50-1519

- Paleoceanographic surface water variations derived from ice-rafted sediments. Maslin, M.A., et al., [1995,eng] 50-565

- Penetrative convection induced by the freezing of seawater. Hadji, L., et al., [1996,eng] 50-6761

- Phase change problems in soil freezing. Li, S.X., [1989,chi] 50-1376

- Phase transformation in materials with nonuniform phase transition temperatures. Hong, J.S., et al., [1995,eng] 50-755

- Proceedings. International Symposium on Thermal Engineering and Sciences for Cold Regions, 5th, Ottawa, May 19-22, 1996, [1996,eng] 50-6428

- Research on a thermal conductivity measurement of supercooled water. Saito, A., et al., [1996,eng] 50-6475

- Review of papers from previous conferences on heat and mass transfer in freezing soils. Fukuda, M., et al., [1992,eng] 50-24

- Review of solution methods to the problem of heat-mass transfer during freezing and thawing. Komarov, I.A., [1996,rus] 50-6816

Heat transfer coefficient

- Sensitivity of numerical prognoses to antarctic sea ice distribution. Watkins, A.B., et al. [1995.eng] 50-2111
- Simulation and observation of ice formation (freeze-over) in a lake. Fang, X., et al. [1996.eng] 50-5466
- Soil freezing on the outside of a vertical two-phase closed thermosiphon. Gu, W.B., et al. [1996.eng] 50-6494
- Solidification and melting of water around a vertical heat transfer plate. Hirasawa, Y., et al. [1996.eng] 50-6470
- Solidification of water in a buried pipe. Negiz, A., et al. [1995.eng] 50-1967
- Study on the behaviour of the direct contact melting under unsteady condition. Saito, A., et al. [1996.eng] 50-6449
- Sublimation of dry ice pellets used for cloud seeding. Kochubajda, B., et al. [1985.eng] 50-4593
- Subpermafrost groundwater, western Svalbard. Haldorsen, S., et al. [1994.eng] 50-5697
- Thermal balance of the surface of the Marukh Glacier. Voloshina, A.P. [1972.rus] 50-535
- Thermal calculation for anti-icer with micro-ejector. Qui, X.G., et al. [1995.eng] 50-1067
- Thermal equilibrium in freezing unsaturated porous media. Tao, Y.X., et al. [1993.eng] 50-3362
- Thermal performance of a planar latent heat storage unit for load shifting. Laouadi, A., et al. [1996.eng] 50-6468
- Thermal recultivation of permafrost using a foam screen in the Arctic North. Feklistov, V.N., et al. [1990.rus] 50-1603
- Thermal stability of the freezing front in porous media such as soils. Bronfenbrener, L., et al. [1996.eng] 50-6479
- Thermal stratification effects near a vertical ice slab in cold water. Kukulka, D.J., et al. [1993.eng] 50-3361
- Thermosiphon-based designs and applications for foundations built on permafrost. Zarling, J.P., et al. [1991.eng] 50-1733
- Three dimensional modelling of a soil heat exchanger-storage system for greenhouses. Gauthier, C., et al. [1996.eng] 50-6445
- Turbulent heat transfer in the atmosphere of the northern European basin. Martem'ianova, E.S., [1992.rus] 50-1272
- Using heat exchange models for geocryological temperature monitoring. Izakson, V.I., et al. [1992.rus] 50-820
- Using the thermal properties of snow. Tsushima, K., [1988.jpn] 50-2274
- Ventilation experiments in a seasonal snow cover. Albert, M.R., et al. [1995.eng] 50-2397
- Vertical mixing processes in the western Weddell Sea. Robertson, R., et al. [1995.eng] 50-569
- What really ended the last ice age? Scientists say the oceans did it. [1992.eng] 50-720
- Zonal and meridional components of atmospheric heat exchange in the northern European basin. Martem'ianova, E.S., [1992.rus] 50-1273
- See [also]: Heat flux; Permafrost heat transfer
- Heat transfer coefficient**
- Analytical modelling of heat transfer from a single slab in freezing. Dincer, I., [1995.eng] 50-3818
- Calculating the heat transfer coefficient of dry snow. Brukhanda, V.I., et al. [1991.rus] 50-7
- Computer model of glaze accretion on wires. Draganoiu, G., et al. [1996.eng] 50-5160
- Computer model of glaze accretion on wires. Draganoiu, G., et al. [1996.eng] 50-5160
- Flowthrough rockfill embankments: behavior in subzero temperatures. Hansen, D., et al. [1995.eng] 50-1841
- Forced-convection melting characteristics of liquid ice in a horizontal rectangular duct. Yamada, M., et al. [1996.eng] 50-6465
- Geometry of heat and mass transfer in dry snow: a review of theory and experiment. Arons, E.M., et al. [1995.eng] 50-1401
- Heat flow in the cryolithozone in relation to subsurface heat flow. Deviatkin, V.N., et al. [1990.rus] 50-1626
- Heat transfer through permeable cold-weather clothing. Kind, R.J., et al. [1995.eng] 50-1139
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1996.eng] 50-5161
- Liquid ice melting along a bundle of heated cylinders. Yamada, M., et al. [1996.eng] 50-4965
- Model for calculating the heat transfer coefficient for sedimentary rocks. Gavril'ev, R.I., [1996.rus] 50-6818
- Modeling of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996.eng] 50-6715
- Moisture transfer, water-soluble substances and structural transformation during freezing. Brovka, G.P., et al. [1996.rus] 50-6821
- Prospects for using solar energy technology in Transbaikalia. Zhelezniak, I.I., et al. [1993.rus] 50-110
- River-coastal sea ice interaction model: Mackenzie River Delta. Searcy, C., et al. [1996.eng] 50-5265
- Thermal calculations for pipe laying in frozen ground. Danielian, I.U.S., et al. [1990.rus] 50-1618
- Thermal recultivation of permafrost using a foam screen in the Arctic North. Feklistov, V.N., et al. [1990.rus] 50-1603
- Ultrasonic measurement of melting ice heat transfer coefficients. Bhansali, A.P., et al. [1996.eng] 50-6760
- Validation of climate model for snow cover variations. Douville, H., et al. [1995.eng] 50-2735
- Heat transmission**
- Nuclear energy for district heating. Bodh, R.M., [1984.eng] 50-3163
- Possibilities for industrial cooperation concerning district heating technology. Juvonen, O.A., [1984.eng] 50-3161

- Tests on the thermal behavior of steel in polar conditions (North Geographic Pole). Aguirre-Puente, J., et al. [1990.spa] 50-5528
- Heating**
- Apparatus and method for powered thermal friction adjustment. Tabar, W.J., [1995.eng] 50-3462
- Carburetor ice gremlin? [1990.eng] 50-3573
- Cold climate applications of bioventing. Ong, S.K., et al. [1994.eng] 50-1474
- Cold weather testing of outdoor gas-fired heaters. Das, D.K., [1996.eng] 50-6141
- Conductive polymeric conduit heater. Peacock, D.G., et al. [1988.eng] 50-2330
- Efficiency of steam and hot water heat distribution systems. Phetteplace, G., [1995.eng] 50-2390
- Frost heaving force of heated buildings. Liu, H.X., [1989.chi] 50-1382
- Handwarmers benefit young citrus trees during freezes. Parsons, L.R., et al. [1995.eng] 50-872
- Ice dam melting system. Tourangeau, D.R., et al. [1995.eng] 50-3481
- Influence of heating on the frozen depth of building foundation. Hong, Y.P., et al. [1989.chi] 50-1383
- Method of excavating in frozen ground. Mukhametdinov, Kh.K., et al. [1992.rus] 50-1944
- Optimal design of piping systems for district heating. Phetteplace, G., [1995.eng] 50-1519
- Patent for use of heat storing mixtures. Kakiuchi, H., [1995.jpn] 50-5071
- Radiation-induced polymerization in high pressure ice. Kirjukhin, D.P., et al. [1995.eng] 50-415
- Radioactive heating of porous comet nuclei. Prialnik, D., et al. [1995.eng] 50-1464
- Reserves of heat supply systems. Salina, S.F., [1992.rus] 50-707
- Snow and ice removal apparatus. Stanger, T.P., [1995.eng] 50-3480
- Symposium on Antarctic Logistics and Operations. 6th. Proceedings. Symposium on Antarctic Logistics and Operations. 6th. Rome, Italy, Aug. 29-31, 1994. [1994.eng] 50-4267
- Thermal calculation for anti-icer with micro-ejector. Qui, X.G., et al. [1995.eng] 50-1067
- Using solar energy at the South Pole: photovoltaic electricity and solar heating. Wills, R.H., [1988.eng] 50-3880
- Utilities and systems for the new Amundsen-Scott Station. Theno, S., et al. [1996.eng] 50-6142
- Warm core in a polar low observed with a satellite microwave sounding unit. Forsythe, J.M., et al. [1996.eng] 50-4186
- See [also]: Concrete heating; Electric heating; Radiant heating
- Heaving**
- See [also]: Frost heave
- Heavy water**
- Water rotation in supercooled aqueous solutions. Nakahara, M., et al. [1995.eng] 50-153
- Hedges**
- See [also]: Snow hedges
- Height**
- See [also]: Altitude
- Height finding**
- Accuracy of SPOT digital elevation model and derivatives: utility for Alaska's North Slope. Sasowsky, K.C., et al. [1992.eng] 50-1448
- Altimeter retracking algorithm accuracy for Greenland ice sheet growth. Davis, C.H., [1995.eng] 50-980
- Altimetry of North Atlantic subpolar current variations. White, M.A., et al. [1995.eng] 50-2778
- Cheap, quick and safe way of surveying glaciers. Wright, J.W., et al. [1995.eng] 50-2995
- Comparison of ice-sheet satellite altimeter retracking algorithms. Davis, C.H., [1996.eng] 50-2703
- Correction of satellite radar altimetry of antarctic ice sheets. Cooper, A.P.R., et al. [1996.eng] 50-5073
- Determination of liquid water altitudes using combined remote sensors. Politovich, M.K., et al. [1995.eng] 50-1414
- ELA variations recorded by Ortles-Cevedale Glaciers, Italy. Pelfini, M., [1994.eng] 50-3766
- Elevation change of the Greenland ice sheet from satellite altimetry. Wingham, D.J., [1995.eng] 50-5237
- ERS-1 altimetry on the Greenland ice sheet: preliminary investigations of annual variations. Andersen, O.B., [1994.eng] 50-5033
- Frontal signals east of Iceland from the GEOSAT altimeter. Robinson, A.R., et al. [1989.eng] 50-4707
- Greenland ice sheet thickness changes measured by laser altimetry. Krabill, W., et al. [1995.eng] 50-751
- Greenland ice sheet thickness changes measured by laser altimetry. Thomas, R., et al. [1993.eng] 50-4803
- Karakorum ice cover variations during the last glaciation. Kuhle, M., [1994.eng] 50-1533
- Limiting resolution of ice-sheet elevations derived from pulse-limited satellite altimetry. Wingham, D.J., [1995.eng] 50-461
- Measurement of ice-sheet topography using satellite-radar interferometry. Joughin, I., et al. [1996.eng] 50-4887
- Measuring geophysical parameters of the Greenland ice sheet using airborne radar altimetry. Ferraro, E.J., et al. [1995.eng] 50-1881
- Satellite altimetry and FRAM model of the southern ocean. Snaith, H.M., [1994.eng] 50-1510

Heterogeneous nucleation

- Surveying work in Mount Xixia Bangma region. Zhou, J.Q., et al. [1982.chi] 50-6594
- Waveform model for surface and volume scattering from ice and snow. Newkirk, M.H., et al. [1996.eng] 50-3886
- Helicopters**
- Aircraft icing handbook. [1993.eng] 50-5064
- Carburetor ice gremlin? [1990.eng] 50-3573
- Helicopter services for USAP and NZAP. Petroleum Helicopters, Inc., [1996.eng] 50-5925
- Manual of ice protection. Sipos, B., ed. [1973.hun] 50-443
- Numerical forecasting of liquid water content to assess airframe icing risk. Lunnun, R.W., [1991.eng] 50-3266
- Winter flying—helicopters. [1985.eng] 50-3794
- Heterogeneous nucleation**
- 1-D model of the formation and evolution of polar stratospheric clouds. Panegrossi, G., et al. [1996.eng] 50-3812
- Aircraft-generated aerosols and visible contrails. Kärcher, B., [1996.eng] 50-6544
- Antifreeze proteins in winter rye are similar to pathogenesis-related proteins. Hon, W.C., et al. [1995.eng] 50-2853
- Atmospheric transport effects on arctic stratospheric chemistry. Yateau, J.H., et al. [1990.eng] 50-6020
- Bacterial ice nucleation and its potential applications in the food industry. Li, J.K., et al. [1995.eng] 50-1956
- Balloon sounding of arctic stratospheric chemistry. Kondo, Y., et al. [1990.eng] 50-5999
- Bromine-chlorine coupling in the antarctic ozone hole. Danilin, M.Y., et al. [1996.eng] 50-3065
- Chemical variations between polar stratospheric cloud phases. Ravishankara, A.R., et al. [1996.eng] 50-3443
- Chlorine budget of the lower polar stratosphere. Shindell, D.T., et al. [1995.eng] 50-3091
- Chlorine monoxide in the antarctic spring vortex, pt.2. Shindell, D.T., et al. [1996.eng] 50-3018
- Comparison between arctic and antarctic polar stratospheric clouds. Dye, J.E., et al. [1996.eng] 50-6542
- Cryomicroscopic determination of ice crystal growth in the system 2,4-pentanedioic/water. Mehl, P.M., [1996.eng] 50-2744
- Crystallization of ice in glycerol solutions, pt.1. Hey, J.M., et al. [1996.eng] 50-5813
- Denitrification mechanisms in the polar stratospheres. Toon, O.B., et al. [1990.eng] 50-6001
- Diffuse interface analysis of ice nucleation in undercooled water. Gránády, L., [1995.eng] 50-1279
- Estimating ice-active bacterial population on mango leaves. Cazorla, F.M., et al. [1995.eng] 50-1652
- Evaluation of the Bridger Range winter cloud seeding experiment using control gages. Super, A.B., et al. [1983.eng] 50-4637
- Evidence for midwinter chemical ozone destruction over Antarctica. Vömel, H., et al. [1995.eng] 50-754
- Formation of polar stratospheric clouds on preactivated background aerosols. Zhang, R.Y., et al. [1996.eng] 50-6510
- Heterogeneous atmospheric bromine chemistry. Lary, D.J., et al. [1996.eng] 50-3019
- Heterogeneous chemistry of polar stratospheric clouds. Mather, J.H., et al. [1990.eng] 50-4726
- Heterogeneous conversion of COF₂ to HF in polar stratospheric clouds. Wofsy, S.C., et al. [1990.eng] 50-6004
- Heterogeneous interactions of stratospheric aerosols. Abbatt, J.P.D., [1996.eng] 50-6512
- HIPLEX-1: experimental design and response variables. Smith, P.L., et al. [1984.eng] 50-4918
- Ice active bacteria gene dynamics. Drains, C., et al. [1995.eng] 50-2347
- Ice forming nuclei in the high Arctic. Bigg, E.K., [1996.eng] 50-4317
- Ice-nucleation properties of various bacterial species. Kiprianova, E.A., et al. [1995.eng] 50-3673
- Impact of heterogeneous reactions on stratospheric chemistry of the Arctic. Douglass, A.R., et al. [1989.eng] 50-4708
- Influence of temperature on crystallization of lactose in ice-cream. Livney, Y.D., et al. [1995.eng] 50-2745
- Infrared measurement of arctic atmospheric chemical species. Wetzel, G., et al. [1995.eng] 50-2115
- Insects and freezing. Block, W., [1995.eng] 50-4087
- Ion-induced nucleation around radon daughters in remote arctic maritime air. Bigg, E.K., [1996.eng] 50-4322
- Ionisation and solvation of stratospherically relevant molecules on ice films. Banham, S.F., et al. [1995.eng] 50-5959
- Kinetic measurements of the ClO + O₃ → ClOO + O₂ reaction. Stevens, P.S., et al. [1990.eng] 50-4727
- Kinetics of ice nucleation initiated by molecular crystals. Iatsimirskii, V.K., et al. [1995.eng] 50-3815
- Laboratory simulation of polar stratospheric cloud formation. Iraci, L.T., et al. [1995.eng] 50-1333
- Lidar observations of polar stratospheric cloud growth. Poole, L.R., et al. [1988.eng] 50-4634
- Low ozone concentrations in mid-latitude ice clouds. Reichardt, J., et al. [1996.eng] 50-6543
- Low-temperature photochemistry of submicrometer nitric acid and ammonium nitrate layers. Koch, T.G., et al. [1996.eng] 50-6682
- Mechanism of formation of nanocrystalline hematite prepared by freeze-drying. Bermejo, E., et al. [1995.eng] 50-4289
- Missing chemistry of reactive nitrogen in the upper stratospheric polar winter. Kawa, S.R., et al. [1995.eng] 50-1189
- Model of arctic radiation fog trace gas processing. Bergin, M.H., et al. [1996.eng] 50-5764
- Model study of polar stratospheric clouds, pt.2. Tie, X.X., et al. [1996.eng] 50-6639

High pressure ice

- Natural ice nucleus measurement under high supersaturation. Mizuno, H., et al. [1995,eng] 50-3719
- Nitric acid in polar stratospheric clouds. Pueschel, R.F., et al. [1990,eng] 50-5997
- Numerical modeling of heterogeneous ozone depletion in polar stratospheric clouds. Smyshlyaev, S.P., [1994,eng] 50-2109
- Observation of a new absorption band of HOBr and its atmospheric implications. Barnes, R.J., et al. [1996,eng] 50-3968
- Observed particle evolution in the polar stratospheric cloud of January 24, 1989. Dye, J.E., et al. [1990,eng] 50-5996
- On the formation of electron depletions at the summer polar mesopause. Klostermeyer, J., [1996,eng] 50-3600
- Oxidation of S(IV) during riming by cloud droplets. Iribarne, J.V., et al. [1995,eng] 50-1103
- Polar stratospheric cloud event, 1989, pt.1. Poole, L.R., et al. [1990,eng] 50-6021
- Polar stratospheric cloud influence on arctic atmospheric chemistry. Jones, R.L., et al. [1990,eng] 50-6023
- Pressure dependence of the reaction between ClO and OClO at 226K. Parr, A.D., et al. [1990,eng] 50-4733
- Principles of ice nucleation. Vali, G., [1995,eng] 50-3271
- Reaction probabilities of ClONO₂ and N₂O₅ on polar stratospheric cloud materials. Hanson, D.R., et al. [1991,eng] 50-3649
- Reactivity of ClONO₂ on H₂¹⁸O ice and organic liquids. Hanson, D.R., [1995,eng] 50-1416
- Role of droplet composition in polar stratospheric cloud freezing. Meiling, S.K., et al. [1995,eng] 50-4874
- Role of uncompressed alcohol monolayers as ice nucleators. Majewski, J., et al. [1995,eng] 50-3040
- SAGE II observations of polar stratospheric clouds near 50°N January 31-February 2, 1989. Pitts, M.C., et al. [1990,eng] 50-5994
- Simulation of arctic stratospheric response to aerosol perturbations. Zhao, X.P., et al. [1996,eng] 50-6680
- Solvation of hydrogen halides on the surface of ice. Robertson, S.H., et al. [1995,eng] 50-6069
- Spaceborne observation of atmospheric precursors to polar stratospheric cloud formation. Geller, M.A., et al. [1995,eng] 50-4539
- Spectra of polar mesospheric noctilucent cloud ice nuclei. Sugiyama, T., et al. [1996,eng] 50-4255
- Spectroscopy of freezing mechanisms of sulfuric acid aerosols. Bertram, A.K., et al. [1996,eng] 50-4143
- Studies on ice nucleating behavior of AgI-AgBr-CuBr system. Radhakrishnan, T., et al. [1996,eng] 50-4290
- Sulfuric acid monohydrate: formation and heterogeneous chemistry in the stratosphere. Zhang, R.Y., et al. [1995,eng] 50-635
- Tests for persistent effects of cloud seeding in a recent Australian experiment. Bigg, E.K., [1995,eng] 50-1249
- Thermal investigation of crystal nucleation from a supercooled liquid. Mu, R., et al. [1996,eng] 50-4354
- Ultrafine aerosol presence in the arctic atmospheric boundary layer. Wiedensohler, A., et al. [1996,eng] 50-4316
- Unsuitability of meteoritic and other nuclei for polar stratospheric cloud freezing. Biermann, U.M., et al. [1996,eng] 50-6513
- Unusual PSCs observed by lidar in Antarctica. Stefanutti, L., et al. [1995,eng] 50-753
- Uptake of HBr on ice at polar atmospheric conditions. Chu, L.T., et al. [1995,eng] 50-3090
- Zonal asymmetries in simulation of arctic stratospheric ozone. Isaksen, I.S.A., et al. [1990,eng] 50-6026
- High pressure ice**
- Compression of ice to 210 gigapascals. Goncharov, A.F., et al. [1996,eng] 50-5445
- Elastic properties of dense H₂O-ices studied by Brillouin spectroscopy. Shimizu, H., [1996,eng] 50-6725
- Electron-beam-induced amorphization of ice III or IX obtained by high-pressure freezing. Sartori, N., et al. [1996,eng] 50-6531
- High pressure-differential thermal analysis of ice-water equilibrium at 1.5-5.0 GPa. Xu, Y.S., et al. [1995,eng] 50-3392
- High-pressure elastic properties of the VI and VII phase of ice in dense H₂O and D₂O. Shimizu, H., et al. [1996,eng] 50-4355
- Ice polymorph pressure determination in a diamond-anvil cell. Haselton, H.T., Jr., et al. [1995,eng] 50-4088
- Microcracking during stress-relief of polycrystalline ice formed at high pressure. Meglis, L.L., et al. [1995,eng] 50-774
- Neutron scattering of high pressure ice polymorphs. Li, J.C., et al. [1996,eng] 50-6344
- New experimental data on ice VI, ice VII and liquid water phase boundaries. Tkachev, S.N., et al. [1995,rus] 50-4114
- New high-pressure phase of ice. Benoit, M., et al. [1996,eng] 50-6096
- Observation of Fano interference in high-pressure ice VII. Aoki, K., et al. [1996,eng] 50-3337
- Phase transition of the hydrogen-bonded crystals and ice. Fujii, K., [1995,eng] 50-1112
- Quartzlike polymorph of ice. Svishechev, I.M., et al. [1996,eng] 50-4412
- Radiation-induced polymerization in high pressure ice. Kirilukhin, D.P., et al. [1995,eng] 50-415
- Rheology of water ices V and VI. Durham, W.B., et al. [1996,eng] 50-3450
- Similarity of vibrational spectra of high-density amorphous ice and high-pressure phase ice VI. Kolesnikov, A.I., et al. [1995,eng] 50-937
- Spectroscopic measurements of ice XI. Li, J.C., et al. [1995,eng] 50-518
- Vitrification of articular cartilage by high-pressure freezing. Studer, D., et al. [1995,eng] 50-6589
- High pressure tests**
- Adsorption and ionization of HCl on an ice surface. Banham, S.F., et al. [1996,eng] 50-5940
- Bubble formation experiments in snow densification. Ishii, S., et al. [1995,eng] 50-3248
- Comment on "Equation of state for extrapolation of high-pressure shock Hugoniot data". Johnson, J.B., [1995,eng] 50-5592
- Compaction tests to simulate icy satellite regolith physics. Leliwa-Kopystyński, J., et al. [1995,eng] 50-5200
- Elastic constants of ice VI by Brillouin spectroscopy. Tulk, C.A., et al. [1996,eng] 50-5506
- Elastic properties of dense H₂O-ices studied by Brillouin spectroscopy. Shimizu, H., [1996,eng] 50-6725
- Electron-beam-induced amorphization of ice III or IX obtained by high-pressure freezing. Sartori, N., et al. [1996,eng] 50-6531
- Flow properties of crushed ice. Singh, S.K., et al. [1995,eng] 50-2999
- High pressure-differential thermal analysis of ice-water equilibrium at 1.5-5.0 GPa. Xu, Y.S., et al. [1995,eng] 50-3392
- High-pressure Brillouin scattering and elastic properties of liquid and solid methane. Shimizu, H., et al. [1996,eng] 50-5682
- Ice polymorph pressure determination in a diamond-anvil cell. Haselton, H.T., Jr., et al. [1995,eng] 50-4088
- Mechanical behavior of frozen earth materials under high pressure triaxial test conditions. Chamberlain, E.J., et al. [1970,eng] 50-3310
- Neutron scattering of high pressure ice polymorphs. Li, J.C., et al. [1996,eng] 50-6344
- Observations of pressure effects on the creep of ice single crystals. Cole, D.M., [1996,eng] 50-4901
- Potential flow applications of high-pressure effects on ice-water transitions. Kalichevsky, M.T., et al. [1995,eng] 50-1955
- Pressure studies on frost heave in soil and glaciers. Radd, F.J., et al. [1966,eng] 50-1409
- Rheology of water ices V and VI. Durham, W.B., et al. [1996,eng] 50-3450
- Highway planning**
- Analysis of winter skid accidents in Sapporo City. Nagai, T., et al. [1994,jpn] 50-2827
- Asphalt pavements in permafrost on the Qinghai-Xizang Highway. Li, N.Y., et al. [1996,eng] 50-6178
- Behavior of vehicles driven in blowing snow. Fukuzawa, Y., et al. [1994,jpn] 50-2826
- Critical height of asphalt-paved highway embankments in permafrost. Zhu, L.N., et al. [1989,chi] 50-1393
- Current conditions and countermeasures in the snow belt. [1985,jpn] 50-2036
- Current conditions and countermeasures in the snow belt. [1988,jpn] 50-2037
- Current conditions and countermeasures in the snow belt. [1991,jpn] 50-2038
- Current status and trends in countermeasures against snow and cold on highways. Murakuni, M., [1988,jpn] 50-2281
- Current status of snow countermeasures on roads in the Soya district. Chiduru, Y., et al. [1995,jpn] 50-6797
- Debris flows in the eastern Qinghai-Xizang Plateau. Tang, B.X., et al. [1994,eng] 50-4785
- Effect of the popularization of studless tires on the road environment. Mima, H., et al. [1995,jpn] 50-6790
- Effect of the popularization of studless tires on traffic conditions. Horita, N., et al. [1995,jpn] 50-6789
- Effects of widespread use of studless tire on traffic conditions. Horita, N., et al. [1994,jpn] 50-2829
- Forecasting of deformation of asphalt paved frozen roadbed of the Qinghai-Xizang Highway. Wu, Z.W., et al. [1989,chi] 50-1392
- Geocryology research in China in the last decade: review and prospect. Cheng, G.D., [1995,eng] 50-4511
- How terrain and road design affect winter maintenance on the Klondike Highway. Tabler, R.D., et al. [1993,eng] 50-5595
- Investigation of the impact of snow removal activities on pavement markings in Virginia. Cottrell, B.H., Jr., [1995,eng] 50-2791
- Landslide hazards along the highways of the Qinghai-Xizang Plateau. Wang, C.H., [1994,eng] 50-4784
- Model test of ground temperature variation of embankment. Ye, B.Y., et al. [1989,chi] 50-1396
- Performance of equipment for traffic report management systems. Obayashi, K., et al. [1992,jpn] 50-3137
- Permafrost along the highway in the Kunlun Mountain Pass of Qinghai Province. Wang, S.L., et al. [1989,chi] 50-1342
- Poles spaced along the road with overhead reflectors as lane markers in snow. Hirasawa, H., et al. [1994,jpn] 50-2837
- Road and airfield development in the subarctic and Arctic, Alaska and northwest Canada. Rooney, J.W., et al. [1996,eng] 50-6186
- Road surface covered with snow and ice and traffic accidents in Hokkaido. Takagi, H., [1995,jpn] 50-3512
- Road-related disturbances in an arctic watershed. Leadley, P.W., et al. [1996,eng] 50-4856
- Roads and airfields in cold regions. Vinson, T.S., ed, et al. [1996,eng] 50-6185
- Route location and siting of roads and airfields. Schraeder, R.L., et al. [1996,eng] 50-6187
- Shakwak Highway Project—construction challenges. Walsh, R., et al. [1996,eng] 50-6160
- Snow countermeasures on metropolitan expressways. Ishizawa, M., et al. [1988,jpn] 50-2282
- Studded tire research in Norway, Finland and Sweden. Johnson, E., et al. [1996,eng] 50-6163
- Technology assessment on systems for conquering and exploiting snow. [1987,jpn] 50-2289
- Tracks of forest roads in the privately owned forests of Hokkaido. [1990,jpn] 50-2294
- Wind tunnel experiments on snowbreaks for Hokkaido highways. Sasaki, M., et al. [1995,jpn] 50-6798
- Winter road surface conditions of national highways in Sapporo. Takahashi, K., et al. [1995,jpn] 50-6793
- Winter road traffic census. Ueki, S., et al. [1992,jpn] 50-3140
- Winter warning traffic signs in Hokkaido. Takayama, H., et al. [1995,jpn] 50-6796
- Highways**
- See [also]: Roads
- Himalaya Mountains**
- Arcto-alpine and boreal elements in the high altitude flora of north west Himalaya. Gupta, R.K., [1994,eng] 50-5417
- Assessment on the diversity and status of the alpine plants of Indian Himalaya. Samant, S.S., [1994,eng] 50-5424
- Bibliography on the hydrology of the Himalaya-Karakoram region. Young, G.J., et al. [1996,eng] 50-5273
- Biomass, primary production, and nutrient dynamics in a Himalayan forest. Rawat, Y.S., et al. [1994,eng] 50-5435
- Catastrophic mass movements in the mountains around the Qinghai-Xizang Plateau. Fort, M., et al. [1995,eng] 50-4835
- Characteristics of the post-glacial advance and retreat in Mount Xixia Bangma region. Zheng, B.X., [1982,chi] 50-6606
- Chemistry of meltwater from Mount Xixia Bangma. Zhang, S., et al. [1982,chi] 50-6601
- Clouds in the Himalaya Mountains, March through May. Qian, Z.J., [1982,chi] 50-6611
- Cold climate hydrometeorology. Upadhyay, D.S., [1995,eng] 50-5508
- Discovery of *Quercus semicarpifolia* fossils at Mount Xixia Bangma. Xu, R., [1982,chi] 50-6608
- Distribution and morphological types of recent glaciers in Mount Xixia Bangma region. Shi, Y.F., et al. [1982,chi] 50-6595
- Ecological study in an alpine pasture of Bhagirathi Valley, Garhwal Himalaya. Rajwar, G.S., et al. [1994,eng] 50-5429
- Ecology and conservation of alpine meadows in central Himalaya, India. Ram, J., et al. [1994,eng] 50-5418
- Effect of disturbance on forest soil microbiology in the Himalaya. Joshi, S.R., et al. [1994,eng] 50-5433
- Evolution conditions of recent glacier in Mount Xixia Bangma region. Xie, Z.C., et al. [1982,chi] 50-6596
- First appearance of Himalayas and its relation to global climatic events. Xu, Q.Q., [1992,chi] 50-1504
- High altitude (above timber-line) bryoflora of Kumaun Himalaya. Tewari, S.D., et al. [1994,eng] 50-5431
- High altitude flora of western Himalaya: peculiarities and conservation. Aswal, B.S., [1994,eng] 50-5421
- High altitude forests with special reference to timber line in Kumaun, central Himalaya. Rawal, R.S., et al. [1994,eng] 50-5434
- High altitudes of the Himalaya (biogeography, ecology & conservation). Pangtey, Y.P.S., ed, et al. [1994,eng] 50-5415
- Himalaya, its ecology and biogeography: a review. Mani, M.S., [1994,eng] 50-5416
- Hydrochemistry of remote high altitude lakes in the Himalayan region. Gosso, E., et al. [1993,eng] 50-4548
- Ice pyramids and other ablation forms on Mount Xixia Bangma. Shi, Y.F., et al. [1982,chi] 50-6600
- Inquiry on ice ages in Mount Xixia Bangma region. Shi, Y.F., et al. [1982,chi] 50-6605
- Isotopic analysis of snow on Asian glacier surfaces. Aizen, V.B., et al. [1996,eng] 50-5256
- Mass balance of Kangwura (flat-top) Glacier on the north side of Mt. Xixiabangma, China. Liu, S.Y., et al. [1996,eng] 50-5514
- Meteorological factors in the Himalaya Mountains, March through May. Wen, C.J., et al. [1982,chi] 50-6610
- Palynology of the Quaternary glaciolacustrine deposits of Mount Xixia Bangma. Chen, S.M., et al. [1982,chi] 50-6604
- Periglacial phenomena found in Mount Xixia Bangma region. Zheng, B.X., et al. [1982,chi] 50-6607
- Plant communities in alpine habitat with special reference to Garhwal Himalaya. Rawat, D.S., et al. [1994,eng] 50-5420
- Preliminary habitat suitability index model for Himalayan musk deer. Rawat, G.S., [1994,eng] 50-5430
- Protected areas and conservation of rare endemic plants in the Himalaya. Rawat, G.S., [1994,eng] 50-5422
- Quaternary geology and geomorphology of Mount Xixia Bangma region. Liu, D.S., et al. [1982,chi] 50-6602
- Quaternary periglacial conditions of a Himalayan river valley fill. Marb, B.G., et al. [1994,eng] 50-5548
- Recent glacier fluctuations in the Himalaya and Karakoram. Yamada, T., et al. [1995,jpn] 50-1174
- Report on the Mount Xixia Bangma region scientific expedition, 1964. [1982,chi] 50-6593
- Resource ecology for soil conservation in the cold deserts of the Himalaya. Gupta, R.K., [1994,eng] 50-5426
- Snow cover and ice formation on the northern slope of Mount Xixia Bangma. Xie, Z.C., [1982,chi] 50-6597
- Study on Quaternary moraine debris of Mount Xixia Bangma region. Zhang, S.Y., [1982,chi] 50-6603

History

- Survey of fungal plant diseases in a part of high altitudes of central Himalaya. Bisht, G.S., et al. [1994.eng] 50-5432
- Surveying work in Mount Xixia Bangma region. Zhou, J.Q., et al. [1982.chi] 50-6594
- Sustenance of central Himalayan vegetation wealth at the brink of depletion. Negi, K.S., et al. [1994.eng] 50-5425
- Temperature conditions of the glaciers on the northern slope of Mount Xixia Bangma. Huang, M.H., [1982.chi] 50-6598
- Texture of glacier and river ice on Mount Xixia Bangma. Huang, M.H., [1982.chi] 50-6599
- Tussock grass community in a Himalayan alpine grassland. Rikhari, H.C., et al. [1994.eng] 50-5428
- Vegetation dynamics and animal behaviour in an alpine pasture of the Garhwal Himalaya. Sundriyal, R.C., [1994.eng] 50-5427
- Weather in the Himalaya Mountains. March through May. Qian, Z.J., [1982.chi] 50-6609
- History**
- 100th anniversary of the Nansen expedition (1888-1889). Matalowski, S., [1989.pol] 50-2929
- 10th anniversary of the Polar Research Documents Workshop. Krawczyk, A., [1989.pol] 50-2934
- Almost forgotten expedition. Maksimova, O., [1995.rus] 50-3803
- Alpine glaciers in the Little Ice Age. Zumbühl, H.J., et al. [1988.ger] 50-3397
- Antarctic Treaty's 30 years of operation. Machowski, J., [1989.pol] 50-2876
- Arctic and Europe. Gerhardsen, T.S., [1996.eng] 50-4423
- Arctic and Japan. Fujita, Y., [1996.eng] 50-4421
- Arctic: historical outline. Ohta, Y., [1996.eng] 50-4424
- Background to Aleksandr Vasil'yevich Kolchak's expedition to Bennett Island, 1903. Barr, W., [1992.eng] 50-3432
- Background to the German expedition to Clearwater Fiord, Baffin Island. Barr, W., [1992.eng] 50-3428
- Cartography of the Northern Sea Route, 15th-19th centuries. Okhuizen, E., [1996.eng] 50-4484
- Centennial of the Norwegian Polar expedition on board of the FramR, 1893-1896. Matalowski, S.M., [1993.eng] 50-2183
- Development of geophysical studies of the cryolithozone. Frolov, A.D., [1995.rus] 50-2503
- Early studies on stratified drift. Jopling, A.V., [1975.eng] 50-4807
- Expedition to Bennett Island in search of Baron Toll, 1903. Kolchak, A.V., [1992.eng] 50-3433
- Expedition to the Far North on the Yamal Peninsula in 1928-1929. Evladov, V.P., [1992.rus] 50-88
- Explore Antarctica. Crossley, L., [1995.eng] 50-230
- Filchner's expedition to the Weddell Sea. Filchner, W., [1994.eng] 50-397
- First poles in Antarctica—the beginnings of the history of our Antarctic studies. Zalewski, S.M., [1989.pol] 50-2872
- Flagship of bridge building in Siberia. Vinogradov, S.N., et al. [1995.rus] 50-3080
- German expedition of the First International Polar Year to Cumberland Sound, Baffin Island, 1882-83. Abbes, H., [1992.eng] 50-3429
- Historical record of blizzards/major snow events in the British Isles, 1880-1989. Wild, R., et al. [1996.eng] 50-3961
- History of cold regions heat transfer: chronology. Cheng, K.C., et al. [1996.eng] 50-6433
- History of the exploration of the vascular flora of Greenland. Pringle, J.S., [1995.eng] 50-3413
- Ice algal investigations: historical perspective. Horner, R.A., [1996.eng] 50-6030
- Icebreaker "Ermak". Basevich, V., et al. [1994.rus] 50-3237
- Introduction to INSROP. Østrem, W., [1996.eng] 50-4420
- O.Y.U. Shmidt's scientific ideas on the strategy of developing the Arctic. Shevelev, M.I., [1992.eng] 50-3430
- Origin and distribution of arctic lichens. Thomson, J.W., [1995.eng] 50-3776
- Polar Club and its activities. Jahn, A., [1989.pol] 50-2871
- Polar regions: a political geography. Chaturvedi, S., [1996.eng] 50-5926
- Political, legal and strategic aspects of the Northern Sea Route. Ushakov, A.P., [1996.eng] 50-4455
- Project IV.1.1: historical and current use of the Northern Sea Route. Ivanov, I.U.M., et al. [1996.eng] 50-4456
- Prospects for Polish studies in Antarctica. Birkenmajer, K., [1989.pol] 50-2877
- Sixtieth birthday of Vladimir Mikhaylovich Kotlyakov. Grosval'd, M.G., et al. [1992.eng] 50-3431
- Snow in the cities—a history of America's urban response. McKelvey, B., [1995.eng] 50-1123
- Tracks of forest roads in the privately owned forests of Hokkaido. [1990.jpn] 50-2294
- Transportation construction in the cryolithozone. Tsernant, A.A., [1995.rus] 50-3083
- Hoarfrost**
- Acid aerosols in rime on Kyushu, Japan. Nagafuchi, O., et al. [1995.eng] 50-4957
- Analytical study of frost nucleation and growth during the crystal growth period. Şahin, A.Z., [1995.eng] 50-44
- Comment on paper by Avila et al. Jayaratne, R., et al. [1996.eng] 50-5454
- Effect of sea ice frost flowers on infrared surface observations. Martin, S., et al. [1996.eng] 50-5858
- Efficacy of ice detector hoarfrost observations. Ryerson, C.C., et al. [1996.eng] 50-4033

- Influence of the growth mechanisms of snow particles on their chemical composition. Takahashi, T., et al. [1996.eng] 50-5610
- Modelling of frost formation in rotary heat exchangers. Bilo-deau, S., et al. [1996.eng] 50-6477
- Polish design standards for transmission line icing. Dembicki, E., et al. [1996.eng] 50-5396
- Rime accretion on the fells. Tammelin, B., et al. [1992.eng] 50-3639
- Rime climate in Sodankylä. Säänti, K., et al. [1992.eng] 50-3630
- Temperature dependence of static charging in ice growing by riming. Avila, E.E., et al. [1995.eng] 50-3004
- See [also]: Depth hoar
- Homogeneous nucleation**
- Complex refractive indices in the infrared of nitric acid trihydrate aerosols. Richwine, L.J., et al. [1995.eng] 50-1188
- Crystallisation and the glass transition in suspensions of hard colloidal spheres. van Meegen, W., [1995.eng] 50-1223
- Freezing characteristics of rigid plant tissues. Rajashekar, C.B., et al. [1996.eng] 50-6554
- Homogeneous nucleation in supercooled molecular clusters. Bartell, L.S., et al. [1995.eng] 50-1280
- Molecular dynamics study of the freezing of clusters of chalcogen hexafluorides. Kinney, K.E., et al. [1996.eng] 50-5780
- Principles of ice nucleation. Vali, G., [1995.eng] 50-3271
- Relative humidity influences on cirrus cloud ice crystal formation. Heymsfield, A.J., et al. [1995.eng] 50-3259
- Tropospheric dehydration by subvisible cirrus clouds. Jensen, E.J., et al. [1996.eng] 50-5287
- Hong Kong**
- Hailstorm in Hong Kong. Lee, B.Y., et al. [1996.eng] 50-3962
- Hot oil lines**
- Airborne measurements of atmospheric methane over oil fields in western Siberia. Tohjima, Y., et al. [1996.eng] 50-6509
- Application of pipe temperature simulator for Norman Wells oil pipeline. Nixon, J.F., et al. [1995.eng] 50-4306
- Ardalin field flows despite weather, terrain. Britton, M.W., et al. [1995.eng] 50-4396
- Hot springs**
- Hot springs in the Hoh Xil Mountains. Zheng, X.S., et al. [1992.chi] 50-1507
- Microbiological activity in thermoglaciar karst springs, South Spitsbergen. Lauritzen, S.E., et al. [1995.eng] 50-1403
- Houses**
- Effects of climate on building construction. Ruch'ev, A.P., et al. [1995.rus] 50-723
- Fan pressurization measurements by four protocols. Flanders, S.N., [1995.eng] 50-485
- Ground-coupled heat pumps for family housing units. Phetelace, G., [1995.eng] 50-2459
- House construction in deep snow regions. Ujje, T., [1988.jpn] 50-2052
- Performance of a Triodetic foundation near Fairbanks, Alaska. Kinney, T.C., [1996.eng] 50-6131
- Possibility of using snow for home air conditioning. Nishioka, T., [1988.jpn] 50-2277
- Progress report on experimental projects for snowproof housing. Takayama, Y., [1988.jpn] 50-2287
- Research report on snowproofing of houses. Uchida, Y., ed. [1984.jpn] 50-2291
- Snowproof houses Plan 50. [1986.jpn] 50-2293
- Human factors**
- Anthropogenic impacts on biodiversity in the Arctic. Young, O.R., et al. [1995.eng] 50-3899
- Danger by the numbers—meaningful cold weather indicators. Shacham, M., et al. [1995.eng] 50-1646
- Disorder of organizational logic—makework among members of bureaucratic organizations. Masuch, M., et al. [1996.eng] 50-5671
- Disturbance and recovery of arctic Alaskan vegetation. Walker, D.A., [1996.eng] 50-4841
- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: introduction. Reynolds, J.F., et al. [1996.eng] 50-4839
- Forest dynamics and disturbance in the temperate rainforests of the Americas. Veblen, T.T., et al. [1996.eng] 50-4065
- Implications of patch dynamics for forested ecosystems in the Pacific Northwest. Bradshaw, G.A., et al. [1996.eng] 50-4067
- On the environmental and climatic changes in the Lop Nur area. Xia, X.C., et al. [1985.chi] 50-1997
- Permafrost degradation in the Greater Khingan Range. Yuan, H.Y., [1989.chi] 50-1349
- Role of industries and environmental effects on corrosion control in the North. Dutta, P.K., [1996.eng] 50-3760
- Significance of social trends and snow cover. Oishi, T., [1988.jpn] 50-2050
- Snowmobile injuries in Kiruna, northern Sweden. Sundström, I., et al. [1994.eng] 50-602
- Temperate rainforest lakes of Chile and British Columbia. Soto, D., et al. [1996.eng] 50-4066
- Trends of the times related to snow. Yagasaki, T., [1988.jpn] 50-2049
- Would a helmet law for snowmobile riders reduce head injuries. Björnstig, U., et al. [1994.eng] 50-603
- Human factors engineering**
- Bare poles: building design for high latitudes. Strub, H., [1996.eng] 50-4963
- Moisture conditions and control in buildings in Fairbanks, Alaska. Adkins, R., [1996.eng] 50-6138

- Pedestrian slipping accidents and their prevention. Kelkka, M., [1995.fin] 50-5507
- Pedestrian slips and falls on icy roads. Takamori, M., et al. [1995.jpn] 50-6794
- Thermophysiological characteristics of protective clothing for forestry workers. Meinander, H., et al. [1994.fin] 50-1093
- Humidity**
- Climate of Inner Mongolia. Wang, W.H., ed. [1990.chi] 50-2172
- Climate of the Qinghai-Xizang Plateau. Dai, J.X., ed. [1990.chi] 50-2173
- Climate of Xinjiang. Li, J.F., ed. [1991.chi] 50-2174
- Climatic features near the Tanggula Pass in the centre of the Tibetan Plateau. Zhang, Y.S., et al. [1995.eng] 50-4513
- Comparison of air temperature and humidity in standard and experimental shelters at Lomnický štít. Gajar, B., et al. [1991.eng] 50-3523
- Current problems in the Aral Sea and prospects for their solutions. Tsytserin, A.G., et al. [1991.rus] 50-731
- Differentiation of three-dimensional temperatures and atmospheric humidity (Spitsbergen). Przybylak, R., [1989.pol] 50-2906
- Diode laser humidity sensor for cold environments. Phase II final technical report. Silver, J.A., et al. [1991.eng] 50-4525
- Distribution and transport of atmospheric water vapour over the arctic basin. Serreze, M.C., et al. [1995.eng] 50-5217
- Föhn winds on Kaffiöyra (NW Spitsbergen). Kejna, M., [1989.pol] 50-2911
- Investigation of the surface condition in Taklimakan Desert. Tsuchiya, K., et al. [1991.jpn] 50-1426
- Moisture conditions and control in buildings in Fairbanks, Alaska. Adkins, R., [1996.eng] 50-6138
- Numerical analysis of atmospheric water cycle over Antarctica. Bromwich, D.H., et al. [1995.eng] 50-2020
- Relations between weather systems affecting Tibetan Plateau and oxygen isotope in precipitation. Zhang, X.P., et al. [1995.chi] 50-5619
- Relationship between snow cover boundary and air temperature. Kislov, A.V., [1994.eng] 50-6093
- Relationship of tropospheric dry layers to freezing precipitation type. Smith, G., [1995.eng] 50-6684
- Relative humidity influences on cirrus cloud ice crystal formation. Heymsfield, A.J., et al. [1995.eng] 50-3259
- Results of the millimeter-wave instrument operated at Sevilla, New Mexico. Otto, W.D., et al. [1996.eng] 50-5666
- Sea-breeze winds in Kaffiöyra (NW Spitsbergen) in the summer of 1985. Kejna, M., [1989.pol] 50-2912
- Sensitivity of squall-line rear inflow to ice microphysics and environmental humidity. Yang, M.J., et al. [1995.eng] 50-1527
- Test of variant soil moisture conditions on the Canadian Global Forecast Model. Delage, Y., et al. [1995.eng] 50-1528
- Variability in atmospheric circulation and moisture flux over the Arctic. Serreze, M.C., et al. [1995.eng] 50-5228
- Hummocks**
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995.eng] 50-6322
- Naturalist's guide to the Arctic. Pielou, E.C., [1994.eng] 50-3804
- Russian soil geography as indicated by a new detailed map. Andronikov, V.L., et al. [1995.eng] 50-3873
- See [also]: Frost mounds; Pingos
- Hungary**
- Granulometric investigations of loess profiles in Hungary. Kis, É., [1995.eng] 50-1039
- Late Quaternary environmental history of Bátorliget, N.E. Hungary. Willis, K.J., et al. [1995.eng] 50-2165
- Palaeoecological reconstruction of the Late Pleistocene, based on loess Malacofauna in Hungary. Krollopp, E., et al. [1995.eng] 50-1048
- Paleomagnetic changes within the Brunhes Epoch in the Basmaharc loess profile, Hungary. Balogh, J., [1995.eng] 50-1051
- Hydrates**
- Adhesive properties of gas hydrates and ice. Bondarev, E.A., et al. [1996.eng] 50-6496
- Adsorption and ionization of HCl on an ice surface. Banham, S.F., et al. [1996.eng] 50-5940
- Adsorption model of polar stratospheric cloud physics. Henson, B.F., et al. [1996.eng] 50-5460
- Alteration of volatile inventories by polar clathrate formation on Mars. Musselwhite, D., et al. [1995.eng] 50-2133
- Characteristics of cryolithogenesis on the arctic shelf. Romanovskii, N.N., et al. [1990.rus] 50-1660
- Characteristics of the gas content of permafrost strata in the Bovanenok gas condensate field. Chuvilin, E.M., et al. [1996.rus] 50-6386
- Complex refractive indices in the infrared of nitric acid trihydrate aerosols. Richwine, L.J., et al. [1995.eng] 50-1188
- Energetics of framework formation in cubic clathrate hydrates. Kosiakov, V.I., et al. [1995.eng] 50-3677
- Formation of nitric acid hydrates—a chemical equilibrium approach. Smith, R.H., [1990.eng] 50-4728
- Geometry and energy calculations of the HS-III polyhedral gas hydrate framework. Kosiakov, V.I., et al. [1995.eng] 50-3676
- Growth of acidic polar stratospheric aerosols. Hamill, P., et al. [1996.eng] 50-4311
- Ice and hydrate freezing points of aqueous ethylene oxide solutions. Glew, D.N., et al. [1995.eng] 50-45
- Interaction of peroxyntic acid with solid H₂O ice. Li, Z.J., et al. [1996.eng] 50-4350

Hydraulic fill

Hydrocarbons

- Intrapermafrost gas hydrates, Mackenzie Delta. Dallimore, S.R., et al. [1995,eng] 50-560
- Kinetics of gas hydrate formation and kinetic inhibition in offshore oil and gas operations. Englezos, P., [1995,eng] 50-171
- Low-temperature photochemistry of submicrometer nitric acid and ammonium nitrate layers. Koch, T.G., et al. [1996,eng] 50-6682
- Monitoring clathrate hydrate formation on ice surfaces. Pietrass, T., et al. [1995,eng] 50-2127
- Oceanic methane hydrates: a "frontier" gas resource. Max, M.D., et al. [1996,eng] 50-4799
- Plausible hydrological scenario for the Bølling-Allerød atmospheric methane increase. Kalin, R.M., et al. [1996,eng] 50-4376
- Positive ion depletion in a noctilucent cloud. Balsiger, F., et al. [1996,eng] 50-3604
- Recent progress in Vostok ice core analysis studies on ancient air stored in ice cores. Uchida, T., [1995,jpn] 50-992
- Refractive-index measurements of natural air-hydrate crystals in an antarctic ice sheet. Uchida, T., et al. [1995,eng] 50-977
- Regularities in the interaction of cryolithozone and gas or gas hydrate beds. Mel'nikov, V.P., et al. [1995,rus] 50-4116
- Regularities in the interaction of frozen strata with gas or gas hydrate beds. Romanovskii, N.N., et al. [1996,rus] 50-6391
- Review of the geochemistry of methane in natural gas hydrate. Kvenvolden, K.A., [1995,eng] 50-6229
- Simulation of clathrate hydrate thermal conductivity. Inoue, R., et al. [1996,eng] 50-5505
- Spectra of nitrogen component of ices in cosmic dust. Whitet, D.C.B., et al. [1996,eng] 50-6210
- Spectroscopic analysis of frozen cement paste microstructure. Olson, R.A., et al. [1995,eng] 50-1406
- Spectroscopic damage to hydrated specimens in vitreous ice. Leapman, R.D., et al. [1995,eng] 50-1648
- Study of the composition of hydrates in natural gas with highly mineralized water. Larionov, V.R., et al. [1992,rus] 50-814
- Sulfuric acid monohydrate: formation and heterogeneous chemistry in the stratosphere. Zhang, R.Y., et al. [1995,eng] 50-635
- Thermal conductivity of normal and deuterated tetrahydrofuran clathrate hydrates. Andersson, O., et al. [1996,eng] 50-2719
- Thermodynamic stability of hydrates for ethane, ethylene, and carbon dioxide. Kvamme, B., et al. [1996,eng] 50-5019
- Transport of natural gas as frozen hydrate. Gudmundsson, J.S., et al. [1995,eng] 50-170
- Unfrozen water types in hydrated phospholipid bilayers. Hsieh, C.H., et al. [1995,eng] 50-3038
- Unsuitability of meteoritic and other nuclei for polar stratospheric cloud freezing. Biermann, U.M., et al. [1996,eng] 50-6513
- Vitrification of articular cartilage by high-pressure freezing. Studer, D., et al. [1995,eng] 50-6589
- X-ray analysis of frozen clathrate hydrates. Bednarek, J., et al. [1996,eng] 50-4555
- X-ray and neutron scattering studies of the structure of water at a hydrophobic surface. Bellissent-Funel, M.C., et al. [1996,eng] 50-5713
- Hydraulic fill**
- Hydraulic fill ash storage design for the permafrost zone. Koritova, I.V., et al. [1995,eng] 50-1838
- Undrained shear strength for liquefaction flow failure analysis. Konrad, J.M., et al. [1995,eng] 50-1824
- See [also]: Earth fills; Rock fills
- Hydraulic jets**
- Arctic platform evacuation vehicle. [1990,eng] 50-5588
- Arctic tool cuts teeth on gloryhole. [1987,eng] 50-4288
- Bubblers for ice melting. [1996,eng] 50-4182
- Development of a vehicle underfloor snow-melting robot. Imai, T., et al. [1995,eng] 50-1970
- Dusting river ice with leaf mulch to aid in ice deterioration. Haehnel, R.B., et al. [1996,eng] 50-6072
- Freezing of a liquid jet on the inside surface of a cold pipe. Naraghi, M.N., [1994,eng] 50-691
- Heat transfer during a water jet impinging on the underside of ice. Bhansali, A.P., [1994,eng] 50-678
- Hydraulic mining of permafrost placers by boreholes. Khurlev, A.S., [1991,eng] 50-1716
- Jet-cutting as an ice-breaking aid. Preliminary report on field tests for U.S. Coast Guard. Mellor, M., et al. [1973,eng] 50-3762
- Ottawa firm makes wastewater 'white as snow'. Kneisel, S., [1996,eng] 50-6744
- Hydraulic structures**
- Construction of the Okhotsk frozen-sea observation tower. Sato, Y., et al. [1996,jpn] 50-5873
- Device for maintaining ice-free areas around a floating dredging pump. Barskii, B.L., et al. [1992,rus] 50-1941
- Device for preventing the icing of supporting structures. Barkhanov, V.N., et al. [1992,rus] 50-1929
- Device for strengthening ground using buried components. Ostukov, B.S., et al. [1992,rus] 50-2053
- Dynamic deformation characteristics of rock foundations in the cryolithozone. Voronkov, O.K., et al. [1995,rus] 50-2505
- Estimation of burial depths for pipelines in arctic regions. Chouinard, L.E., [1995,eng] 50-1839
- Field measurements of ice loads: thermal loads on hydro-electric structures. Comfort, G., et al. [1994,eng] 50-853
- Frost durability of concrete containing viscosity-modifying admixtures. Khayat, K.H., [1995,eng] 50-4500
- Frost heave in subgrade soils of hydraulic structures. Wang, J.G., et al. [1989,chi] 50-1360
- Frost heave susceptibility of hydraulic structure subgrade soils. Xie, Y.Q., et al. [1989,chi] 50-1391
- Gravitational platform and the means for its assembly. Ionin, V.S., et al. [1992,rus] 50-1904
- Hydraulic resistance acting on ice floes. Kawai, K., et al. [1996,jpn] 50-5885
- Hydraulic structures in permafrost. Gevirts, G.I.A., [1993,eng] 50-104
- Hydromechanization of earthwork under the conditions in the Far East and Siberia. Mel'nikov, I.T., [1995,rus] 50-3077
- Hydrotechnical structure for fast ice. Silin, A.V., et al. [1992,rus] 50-1937
- Ice passage. [1996,eng] 50-4621
- Ice platform. Gabibov, F.G., et al. [1992,rus] 50-1924
- Ice protection for water intakes of the Perry Nuclear Power Plant. Wahanik, R.J., et al. [1976,eng] 50-884
- Means of raising an ice structure on the shelf of ice-covered seas. Savilev, B.A., et al. [1992,rus] 50-1912
- Model of protecting the geological environment in the permafrost region. Kagan, A.A., [1995,eng] 50-343
- Mudflow-retaining structure. Bainatov, Zh.B., et al. [1992,rus] 50-1936
- New, low-cost ice control structure. Part 1: concept development. Lever, J.H., et al. [1996,eng] 50-6158
- New, low-cost ice control structure. Part 2: construction and performance. Lever, J.H., et al. [1996,eng] 50-6159
- River ice control and fish habitat restoration: mutual interests and benefits. Lever, J.H., et al. [1995,eng] 50-3121
- Snow melting on walkways at waterworks. Mikazuki, S., et al. [1992,jpn] 50-3139
- Study and engineering practice of enclosed foundation of sluice. Yu, B.F., et al. [1989,chi] 50-1390
- Three-dimensional simulation of river ice jams. Hopkins, M.A., et al. [1996,eng] 50-6155
- World's first artificial ice plug for a hydro tunnel. Berggren, A.L., et al. [1995,eng] 50-5708
- See [also]: Dams; Docks; Locks (waterways); Offshore structures; Piers; Wharves
- Hydraulics**
- Cold region hydraulic oil applications. Uhrik, S.L., [1991,eng] 50-1758
- Comparison of two avalanche forecasting models. Weiler, C., [1995,eng] 50-1060
- Dispersion-by-chemical-reaction technology to stabilize asphalt tar. Brar, G.S., et al. [1995,eng] 50-727
- Englacial drainage influence on sediment transport pathways. Kirkbride, M., et al. [1996,eng] 50-6255
- Estimation of unsaturated permeability from suction curves. Thompson, J.D., [1981,eng] 50-2144
- Fluvial morphology and streamflow on Deception Island, Antarctica. Inbar, M., [1995,eng] 50-4190
- Ice effects on Mackenzie River hydraulics at the outlet of Great Slave Lake. Chen, X.B., [1993,eng] 50-377
- Methods for measuring discharge under ice cover—discussion. Engel, P., et al. [1996,eng] 50-2721
- New non-freezing fluid for a hydraulic system of mechanized supports. Slepsov, V.P., et al. [1992,rus] 50-811
- Numerical model of flow in ice-covered channel. Yoon, J.Y., et al. [1996,eng] 50-2720
- On the prediction of hydraulic conductivity of frozen soils. Tarawski, V.R., et al. [1996,eng] 50-4307
- Optimal fracture stimulation of a moderate permeability reservoir. Kupařuk River unit. Pearson, C.M., et al. [1991,eng] 50-1701
- Optimizing fracture stimulations in the McArthur River oil reservoir, Alaska. Schoffmann, A.B., [1991,eng] 50-1750
- Physical properties governing groundwater flow in a glacial till catchment. Hinton, M.J., et al. [1993,eng] 50-3693
- Predicting sediment load of Swiss rivers. Hunziker, R.P., [1995,ger] 50-4173
- Prudhoe Bay field, Alaska, waterflood injection water quality and remedial treatment study. Hsi, C.D., et al. [1991,eng] 50-1700
- Snowmelt and slush torrents in Swedish Lapland. Gude, M., et al. [1995,eng] 50-4188
- Statistical evaluation of glacier boreholes as indicators of basal drainage systems. Smart, C.C., [1996,eng] 50-6089
- Subglacial hydrology of a Swiss glacier. Hubbard, B.P., et al. [1995,eng] 50-1878
- Theory of ice jams. Beltaos, S., [1995,eng] 50-787
- Towards a hydrological model for computerized ice-sheet simulations. Alley, R.B., [1996,eng] 50-6092
- Winter effects on hydraulic conductivity of compacted clay—discussion. Day, R.W., et al. [1996,eng] 50-5207
- Hydrocarbons**
- Alcohols in interstellar ice mantles. Charnley, S.B., et al. [1995,eng] 50-5101
- Arctic and Offshore Research Information System. Shoemaker, H.D., et al. [1991,eng] 50-1753
- Arctic operators seek warmth in a cold climate. Cottrill, A., [1986,eng] 50-5653
- Aromatic hydrocarbons in Greenland ice and atmosphere. Masclet, P., et al. [1995,eng] 50-2572
- Arsenic pollutants in Pechora Sea sediments. Loring, D.H., et al. [1995,eng] 50-1829
- Atmospheric carbon emission from North Asian lakes: a factor of global significance. Semiletov, I.P., et al. [1996,eng] 50-5609
- Barents Sea biomass reaction to gas condensate pollution. Gorbacheva, E.A., et al. [1996,eng] 50-6581
- Benthic sediment hydrocarbon sources following the Exxon Valdez oil spill. Page, D.S., et al. [1995,eng] 50-3915
- Biogenic organic compounds in ponds on the McMurdo Ice Shelf. Schall, C., et al. [1996,eng] 50-3703
- Boundary-layer ozone depletion as seen in the Norwegian arctic in spring. Solberg, S., et al. [1996,eng] 50-4152
- CASP annual report—1 February 1995-31 January 1996. Cambridge Arctic Shelf Programme, [1996,eng] 50-4794
- CFCs dominance in the stratosphere. Russell, J.M., III, et al. [1996,eng] 50-3103
- Chemical and toxicological evaluation of water quality following the Exxon Valdez oil spill. Neff, J.M., et al. [1995,eng] 50-3917
- Cleansing role of clay-oil flocculation in shoreline sediments following an oil spill. Bragg, J.R., et al. [1995,eng] 50-3918
- Cold climate applications of bioventing. Ong, S.K., et al. [1994,eng] 50-1474
- Comparative study of bottom sediment pollution in Lianyungang and Vladivostok harbors. Tkalič, A.V., [1995,eng] 50-5063
- Compositional simulation and performance analysis of the Prudhoe Bay Miscible Gas Project. McGuire, P.L., et al. [1991,eng] 50-1702
- Contaminants in the arctic marine environment: priorities for protection. Macdonald, R.W., et al. [1996,eng] 50-5574
- Core preservation to aid arctic oil reservoir evaluation. MacGregor, K.W., et al. [1991,eng] 50-1740
- Cosmochemical significance of hydrocarbon reaction to frozen benzene impact. Mimura, K., et al. [1995,eng] 50-631
- Crystal structure of dichlorofluoromethane. Pridmore, R.W., et al. [1996,eng] 50-4695
- Current water quality in Cook Inlet, Alaska, study. University of Alaska. Environment and Natural Resources Institute, [1995,eng] 50-4400
- Deposit of atmospheric biphenyls in the Canadian Arctic. Gregor, D., et al. [1996,eng] 50-6521
- Distribution of pesticide residues in arctic coastal ecosystems. Bright, D.A., et al. [1995,eng] 50-4747
- Effect of ethanol additives on odor detection of Alaskan gasolines. Zhao, X.H., et al. [1995,eng] 50-3393
- Environmental research project for Yamburg gas fields. Chlenov, A.V., [1991,eng] 50-1766
- Environmental safety of construction of gas and oil facilities in arctic regions. Mazur, I.I., et al. [1991,eng] 50-1764
- Estimation of aerosol deposition to a snow surface. Sharma, M., et al. [1995,eng] 50-3011
- Experimental study of dielectric relaxation in supercooled alcohols and polyols. Murthy, S.S.N., [1996,eng] 50-4084
- Exploration for hydrocarbon deposits and engineering preparation of oil and gas provinces. Akhmetshin, A.A., et al. [1996,rus] 50-6371
- Exploratory oil drilling in the Beaufort Sea. Cottrill, A., [1986,eng] 50-5651
- Fingerprinting hydrocarbons in the biological resources of the Exxon Valdez spill area. Bence, A.E., et al. [1995,eng] 50-3916
- Forest fire records inferred from Greenland ice core chemistry. Legrand, M., et al. [1996,eng] 50-3447
- Formation of amino acid precursors in cometary ice environments by cosmic radiation. Kobayashi, K., et al. [1995,eng] 50-652
- Formation of organic molecules in astronomical ices. Schutte, W.A., [1995,eng] 50-653
- Freezable wax plug for pipeline. [1992,eng] 50-4414
- Geobotanical maps as an aid in assessing surface impacts. Everett, K.R., et al. [1994,eng] 50-304
- Geochemical analyses of Exxon Valdez oil spill. Bence, A.E., et al. [1996,eng] 50-6339
- Geochemistry of organic matter in oil- and gas-bearing sediments in Western Yakutia. Budonov, E.I., ed. [1984,rus] 50-5006
- Geology and mining in Svalbard. Cippitelli, G., [1994,ita] 50-2820
- Halocarbon seasonal variations in the arctic troposphere. Yokouchi, Y., et al. [1996,eng] 50-5612
- Handling practice effects on soil sample chemistry. Hewitt, A.D., [1996,eng] 50-5962
- High-pressure Brillouin scattering and elastic properties of liquid and solid methane. Shimizu, H., et al. [1996,eng] 50-5682
- Impact of Cenozoic uplift on offshore Norwegian hydrocarbon exploration. Doré, A.G., et al. [1996,eng] 50-5327
- In situ bioremediation in arctic Canada. Carss, J.G., et al. [1994,eng] 50-1472
- Infrared spectroscopy of organics of planetological interest at low temperatures. Khanna, R.K., [1995,eng] 50-656
- Integrated analysis of oil hydrocarbons in a marine environment and in the fat of animals. Khesina, A.I.A., et al. [1991,rus] 50-1316
- Kinetics of freezing of dimethylacetylene. An electron diffraction study. Huang, J.F., et al. [1995,eng] 50-151
- Laboratory comparisons of organic materials to interstellar dust and the Murchison meteorite. Pendleton, Y.J., [1995,eng] 50-3025
- Laser ablation of organic molecules from frozen matrices. Belov, M.E., et al. [1995,eng] 50-3720
- Manganese and other trace elements in urban snow near an expressway. Loranger, S., et al. [1996,eng] 50-5776
- Mathematical model of pollution vectors in the arctic basin. Krapivin, V.F., et al. [1996,eng] 50-3412

Hydrodynamics

- Measurements of Alaskan spring atmospheric ozone content. Beine, H.J., et al. [1996,eng] 50-6640
- Methanogenesis at low temperatures by microflora of tundra wetland soil. Kotsiurbenko, O.R., et al. [1996,eng] 50-5156
- Microscopic dynamics of glycerol in its crystalline and glassy states. Bermejo, F.J., et al. [1996,eng] 50-4418
- Model for measuring PAH deposits on snow. Sharma, M., et al. [1995,eng] 50-3037
- Monitoring organic pollutants in the Arctic in 1992. Fellin, P., et al. [1996,eng] 50-4359
- Movement of fuel spills in the Ross Ice Shelf. Tumeo, M.A., et al. [1994,eng] 50-5216
- Multilaterals, horizontal wells could access remote Russian oil reserves. Hazen, T., [1996,eng] 50-6575
- Neutral and ionized PAHs: contribution to the interstellar extinction. Salama, F., et al. [1995,eng] 50-3021
- North Sea and Norwegian Sea hydrocarbon exploration. Alberti Di Catenaja, C., et al. [1994,ita] 50-2818
- Norway entices exploration groups with improved licensing terms. [1995,eng] 50-2537
- Oceanic methane hydrates: a "frontier" gas resource. Max, M.D., et al. [1996,eng] 50-4799
- Oil pollution in Arctic waters. Futsaeter, G., et al. [1991,eng] 50-3421
- Parameterizing environmental assessments for oil and gas facility construction. Semenov, L.P., [1991,eng] 50-1765
- Periodic variations in air-water gas exchange of Arctic Ocean insecticide pollutants. Jantunen, L.M., et al. [1995,eng] 50-1862
- Petroleum in glacially-related sandstones of Gondwana: a review. Potter, P.E., et al. [1995,eng] 50-3252
- Petroleum resources of the Mackenzie Delta and Beaufort Sea. Dixon, J., et al. [1994,fre] 50-3319
- Petroleum-producing sequences in the Phanerozoic deposits of the arctic islands. Danushevskaia, A.I., [1996,eng] 50-5704
- Possible consequences of glacially induced groundwater flow. Forsberg, C.F., [1996,eng] 50-5325
- Possible ways of preventing fallout of carcinogenic hydrocarbons. Bez'izyikova, A.N., et al. [1991,rus] 50-1317
- Pre-analysis of soil organic compound holding times. Hewitt, A.D., [1996,eng] 50-5961
- Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991, [1991,eng] 50-1696
- Radiation chemistry of ices of planetological interest at low temperature. Strazzulla, G., [1995,eng] 50-654
- Reactivity of imidazoles in pulse and γ -irradiated liquid and frozen systems. Kalcicka, E., et al. [1996,eng] 50-3527
- Release of volatile halogenated organic compounds by unialgal cultures of polar macroalgae. Laturus, F., [1995,eng] 50-1202
- Removal of hydrocarbons from the *Bahia Paraiso*. Arangio, I.A., [1994,eng] 50-4272
- Reservoir potential of an upwelling deposit, Prudhoe Bay. Kupecz, J.A., [1995,eng] 50-6551
- Review of bioremediation experience in Alaska. Kellems, B.L., et al. [1994,eng] 50-1473
- Review of the geochemistry of methane in natural gas hydrate. Kvenvolden, K.A., [1995,eng] 50-6229
- Role of uncompressed alcohol monolayers as ice nucleators. Majewski, J., et al. [1995,eng] 50-3040
- Seasonal cycle of C_2 - C_3 hydrocarbons over the Baltic Sea and northern Finland. Laurila, T., et al. [1996,eng] 50-5607
- Shoreline ecology program following the *Exxon Valdez* oil spill. pt.1. Page, D.S., et al. [1995,eng] 50-3921
- Shoreline ecology program following the *Exxon Valdez* oil spill. pt.2. Boehm, P.D., et al. [1995,eng] 50-3924
- Shoreline impacts in the Gulf of Alaska region following the *Exxon Valdez* oil spill. Gilfillan, E.S., et al. [1995,eng] 50-3926
- Shoreline oiling conditions in Prince William Sound following the *Exxon Valdez* oil spill. Neff, J.M., et al. [1995,eng] 50-3923
- Simulation of extraterrestrial ice radiation absorption properties. Schutte, W.A., et al. [1995,eng] 50-3023
- Soil-to-snow movement of synthetic organic compounds in natural snowpack. Hogan, A., et al. [1995,eng] 50-2403
- Sorption of nonpolar organic vapors by ice and snow. Hoff, J.T., et al. [1995,eng] 50-644
- Sources of organic carbon aerosols in the arctic atmosphere. Kawamura, K., et al. [1996,eng] 50-5611
- Spectrometry of frozen organic surface ionization. Betts, R.L., et al. [1995,eng] 50-657
- Structure of solid fluorine. Torrie, B.H., et al. [1996,eng] 50-4696
- Superplasticizer dosage effects on concrete frost resistance. Gagné, R., et al. [1996,eng] 50-5922
- Thermal conductivity of normal and deuterated tetrahydrofuran clathrate hydrates. Andersson, O., et al. [1996,eng] 50-2719
- Trichloroacetic acid in conifer needles and arboreal lichens in forest environments. Juuti, S., et al. [1996,eng] 50-4206
- Tropospheric chemistry of greenhouse gases in Finnish conditions. Laurila, T., et al. [1994,eng] 50-3191
- Use of mussels to assess bioavailability of hydrocarbons from the *Exxon Valdez* oil spill. Shigenaka, G., et al. [1995,eng] 50-3920
- West Siberian oil and the northern sea route: current situation and future potential. Krivkov, V., et al. [1995,eng] 50-6104
- X-ray analysis of frozen clathrate hydrates. Bednarek, J., et al. [1996,eng] 50-4555

Hydrodynamics

- Boundary layer characteristics of the continental margin of the western Barents Sea. Thomsen, L., et al. [1994,eng] 50-1245
- Calculating the interaction of processes in the free troposphere and boundary layer. Baranov, G.I., et al. [1990,rus] 50-319
- Catastrophic storm surges in the southern part of the Laptev Sea. Ashikh, I.M., et al. [1995,eng] 50-2068
- Distribution of river run-off in the Laptev Sea: the environmental effect. Dmitrenko, I.A., et al. [1995,eng] 50-2077
- Distribution of sea-ice algae in Hudson Bay. Monti, D., et al. [1996,eng] 50-5211
- Doppler electromagnetic analysis of ice cover gravity wave oscillations. Vdovichenko, S.P., [1996,eng] 50-5703
- Dynamics of river ice jam release. Shen, H.T., et al. [1996,eng] 50-6156
- Effects of floating ice cracks on propagation of flexural waves. Bukatov, A.E., et al. [1996,eng] 50-3410
- Evolution of the ecosystem and biogeography of seas in the European Arctic. Pavlov, D.S., ed. [1994,rus] 50-3088
- Hydrodynamic performance of ship hull forms designed for the NSR cargo ship. Uto, S., et al. [1996,eng] 50-4474
- Influence of cavitation on icebreaker propellers. Walker, D., et al. [1995,eng] 50-200
- Light-scattering spectrum of supercooled liquids. Latz, A., et al. [1996,eng] 50-5102
- Mathematical model of synoptic variation in drifting ice cover due to atmospheric factors. Zuev, A.N., [1992,rus] 50-1264
- Mode coupling theory of structural relaxations. Götz, W., et al. [1995,eng] 50-1220
- Model of drag forces on sea ice bottom surfaces. Pite, H.D., et al. [1995,eng] 50-2740
- Non-contact loads on propellers in ice-blocked flows. Luznik, L., et al. [1995,eng] 50-2941
- Numerical modelling of ice jam resistance to main channel flow. Saadé, R.G., et al. [1995,eng] 50-6206
- Numerical prediction of sea surges and ice conditions on the Laptev and East-Siberian Sea. Ashikh, I.M., [1995,eng] 50-2069
- Numerical study of the circulation of the Bering Sea basin and exchange with the North Pacific Ocean. Overland, J.E., et al. [1994,eng] 50-2855
- On deflecting drifting icebergs. Rieß, I.R., et al. [1995,eng] 50-2945
- Phreatic water surface profiles along ice jams—an experimental study. Saadé, R.G., et al. [1996,eng] 50-6693
- Planar forcing of floating ice sheets. Zhao, Z.G., et al. [1996,eng] 50-1108
- Rain production in convective clouds. pt.2. Reisin, T., et al. [1996,eng] 50-6325
- Thermodynamic model of lake ice formation and melting. Dmitriev, N.V., [1995,eng] 50-5480
- Under cover transport and accumulation of frazil granules—discussion. Quo, Q.Z., et al. [1996,eng] 50-6337
- Hydroelectric power**
See (also): Electric power
- Hydrogen**
Soluble salts and heavy hydrogen in Bosten Lake. Huang, Z.W., et al. [1991,chi] 50-5134
- Total hydrogen budget in the arctic winter stratosphere. Engel, A., et al. [1996,eng] 50-5767
- Towards new energy systems for antarctic stations. Guichard, A., [1994,eng] 50-4274
- Hydrogen bonds**
Adsorption of methane on natural snow. Chaix, L., et al. [1996,eng] 50-5963
- Classical and quantum mechanical studies of ice Ih near the melting temperature. Gai, H.D., et al. [1996,eng] 50-3099
- Clathrate-like structures in supercooled water. Walrafen, G.E., et al. [1995,eng] 50-155
- Compression of ice to 210 gigapascals. Goncharov, A.F., et al. [1996,eng] 50-5445
- Cooperative polarisation in ice Ih and the unusual strength of the hydrogen bond. Heggie, M.I., et al. [1996,eng] 50-3958
- Cooperativity and hydrogen bond network lifetime in liquid water. Lamanna, R., et al. [1995,eng] 50-5714
- Crystal structure of dichloroethane. Pridmore, R.W., et al. [1996,eng] 50-4695
- Elastic constants of ice VI by Brillouin spectroscopy. Tulk, C.A., et al. [1996,eng] 50-5506
- Energetics of framework formation in cubic clathrate hydrates. Kosiakov, V.I., et al. [1995,eng] 50-3677
- Erratum for paper by K. Fujii. Fujii, K., [1996,eng] 50-5938
- Experimental study of dielectric relaxation in supercooled alcohols and polyols. Murthy, S.S.N., [1996,eng] 50-4084
- Explanation of the density maximum in water. Cho, C.H., et al. [1996,eng] 50-4346
- Geometry and energy calculations of the HS-III polyhedral gas hydrate framework. Kosiakov, V.I., et al. [1995,eng] 50-3676
- Mean amplitude of the OH...O hydrogen bond in ice and liquid water. Iijima, T., [1996,eng] 50-5022
- Molecular dynamics simulation studies on ice: interatomic models. Kawamura, K., [1996,jpn] 50-6733
- Neutron scattering of high pressure ice polymorphs. Li, J.C., et al. [1996,eng] 50-6344
- New approach to the dynamics of hydrogen bond network in liquid water. Matsumoto, M., et al. [1996,eng] 50-3616
- New high-pressure phase of ice. Benoit, M., et al. [1996,eng] 50-6096

Hydrogeochemistry

- Observation of Fano interference in high-pressure ice VII. Aoki, K., et al. [1996,eng] 50-3337
- Phase transition of the hydrogen-bonded crystals and ice. Fujii, K., [1995,eng] 50-1112
- Residual entropy of ice. Ihm, J.S., [1996,eng] 50-3643
- Spectroscopy of deuterium oxide ice adsorbed onto a hydrocarbon. Engquist, I., et al. [1995,eng] 50-1855
- Spectroscopy of deuterium oxide ice desorption and substrate wettability. Engquist, I., et al. [1995,eng] 50-1570
- Structural characteristics of hydrogen-bonded networks in water and ice systems. Dore, J.C., et al. [1995,eng] 50-2697
- Structural isotope effect in water bilayers adsorbed on RU(001). Held, G., et al. [1995,eng] 50-871
- Structure of solid fluorine. Torrie, B.H., et al. [1996,eng] 50-4696
- Structures and phase transitions of amorphous ices. Okabe, I., et al. [1996,eng] 50-5103
- Surface features of interstellar ice. McCoustra, M., et al. [1996,eng] 50-5244
- X-ray analysis of frozen clathrate hydrates. Bednarek, J., et al. [1996,eng] 50-4555
- Hydrogeochemistry**
A hydrochemical model for seasonally snow-covered alpine watersheds. Wolford, R.A., et al. [1996,eng] 50-4237
- Analysis of long term sulfate and nitrate budgets in a Rocky Mountain basin. Baron, J.S., et al. [1995,eng] 50-2417
- Atmospheric carbon emission from North Asian lakes: a factor of global significance. Semiletov, I.P., et al. [1996,eng] 50-5609
- Basal water pressure as indicator of subglacial drainage patterns. Stone, D.B., et al. [1996,eng] 50-6090
- Basic characteristics and paleoclimatic evolution of Qarhan Salt Lake. Chen, K.Z., et al. [1986,chi] 50-1984
- Basic types of underground water in permafrost area on the Qinghai-Xizang Plateau. Guo, P.F., [1989,chi] 50-1345
- Biogeochemistry of sediment diagenesis at Kara Sea-Yenisey River boundary layer. Lein, A.I.U., et al. [1995,eng] 50-3535
- Characteristics of water quality in a forest river during the snow melting period. Tachibana, H., et al. [1994,eng] 50-4222
- Chemical and isotopic tracers of snowmelt flowpaths in a subalpine watershed. Miller, E.K., et al. [1995,eng] 50-2427
- Chemical composition of suspended sediments in the Lena River and its mixing zone. Gordeev, V.V., et al. [1995,eng] 50-2081
- Comparison of subglacial and extra-glacial weathering. Axtmann, E.V., et al. [1995,eng] 50-2436
- Compositional simulation and performance analysis of the Prudhoe Bay Miscible Gas Project. McGuire, P.L., et al. [1991,eng] 50-1702
- Contribution to the hydrological and hydrochemical response of mountain basins. Babiakova, G., et al. [1994,eng] 50-3670
- Differentiation of Ob and Yenisey waters in the Kara Sea by alkalinity and silicate. Stunzhas, P.A., [1995,eng] 50-6688
- Distribution of oxygen and nutrients in the Laptev Sea in summer. Pivovarov, S.V., et al. [1995,eng] 50-2079
- Dissolution kinetics, subglacial pathways and solute content of alpine meltwater. Collins, D.N., [1995,eng] 50-6045
- Dissolution kinetics, subglacial pathways and solute content of meltwater. Collins, D.N., [1995,eng] 50-3124
- Dissolved inorganic carbon in the Kara Sea and in the mouths of the Ob and Yenisey Rivers. Makkaveev, P.N., [1995,eng] 50-3533
- Drill cores from Qarhan Salt Lake. Yang, S.X., [1992,chi] 50-1488
- Dynamics of dissolved and particulate carbon in an arctic stream. Oswald, M.W., et al. [1996,eng] 50-4851
- Effect of snow hydrology on glacial runoff. Fountain, A.G., [1996,eng] 50-6084
- Features of potash sedimentation in the upper salt layer (S_4) in the Qarhan Salt Lake. Li, B.X., et al. [1992,chi] 50-1487
- Fluxes of nutrients between benthic and planktic communities in the coastal zone of the Barents Sea. Kuznetsov, L.L., et al. [1995,eng] 50-3606
- Geochemical evolution and paleoclimatology of a salt lake in the Qaidam Basin. Han, F.Q., et al. [1995,chi] 50-4126
- Hydrochemical characteristics of the Kara Sea. Makkaveev, P.N., et al. [1995,eng] 50-3532
- Hydrochemical indicators of subglacial drainage system structure. Tranter, M., et al. [1996,eng] 50-6086
- Hydrochemical processes during snowmelt in a subalpine watershed, Colorado, USA. Peters, N.E., et al. [1995,eng] 50-2423
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995,eng] 50-3125
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995,eng] 50-6043
- Hydrochemistry of remote high altitude lakes in the Himalayan region. Gosso, E., et al. [1993,eng] 50-4548
- Hydrogeochemistry of Fraser River, British Columbia. Cameron, E.M., [1996,eng] 50-5815
- Hydrologic pathways in an alpine watershed. Mast, M.A., et al. [1995,eng] 50-2418
- Hydrological research on rivers and lakes in the Tibetan Plateau. Portge, K.H., [1994,ger] 50-4787
- Impact of subglacial geothermal activity on glacier meltwater quality. Lawler, D.M., et al. [1996,eng] 50-6087
- Impurities in surface meltwater from a Tian Shan glacier. Goto-Azuma, K., et al. [1995,eng] 50-613
- Influence of runoff from land on the distribution of hydrologic characteristics of the Kara Sea. Burenkov, V.I., et al. [1995,eng] 50-3531

Hydrogeology

- Integrated approach to modelling hydrology and water quality in glacierized catchments. Richards, K.S., et al. [1996,eng] 50-6083
- Interpretation of hydrochemical evidence for meltwater routing at a high arctic glacier. Hodgkins, R., et al. [1995,eng] 50-2432
- Ion chemistry controls for a Chinese river. Williams, M.W., et al. [1995,eng] 50-2604
- Isotopic analysis of groundwater in the Taklimakan Desert. Ushiki, H., et al. [1991,jpn] 50-1435
- Isotopic and ionic variations in glacier river water during three contrasting ablation seasons. Theakstone, W.H., et al. [1996,eng] 50-6085
- Isotopic tracing of nitrate sources in snowmelt runoff. Kendall, C., et al. [1995,eng] 50-2426
- Labile dissolved forms of heavy metals in the Kara Sea waters. Kravtsov, V.A., et al. [1995,eng] 50-3534
- Lakes and marshes in Hokkaido. Sakata, Y., ed, et al. [1990,jpn] 50-2292
- Late Quaternary climatic fluctuations of the Venezuelan Andes. Yurechik, R., ed, [1991,eng] 50-5643
- Links between proglacial stream sediments and glacier motion. Willis, I.C., et al. [1996,eng] 50-6091
- Lithium and boron geochemistry of salt lakes in the Qaidam Basin. Zheng, X.Y., [1986,chi] 50-1992
- Major, minor, and trace element chemistry of surface waters in the Everest region of Nepal. Reynolds, B., et al. [1995,eng] 50-2434
- Marginal filter of the ocean. Lisitsyn, A.P., [1995,eng] 50-3542
- Meltwater drainage patterns from alpine glaciers. Collins, D.N., [1995,eng] 50-2430
- Microbiological activity in the thermoglaciar karst springs, South Spitsbergen. Lauritzen, S.E., et al. [1995,eng] 50-1403
- Modeling of contaminant transport in groundwater in areas of discontinuous permafrost. Johnson, R., et al. [1996,eng] 50-6114
- Nitrate transport in snowmelt in the Green Mountains, northern Vermont. Daly, D.M., [1995,eng] 50-3128
- Nitrogen deposition and release in alpine watersheds, Loch Vale, Colorado, USA. Campbell, D.H., et al. [1995,eng] 50-2416
- Organic carbon variations in stream waters during snowmelt. Boyer, E.W., et al. [1995,eng] 50-2422
- Overview of environmental and hydrogeologic conditions at Bethel, Alaska. Dorava, J.M., et al. [1995,eng] 50-2484
- Overview of environmental and hydrogeologic conditions at Bettles Field, Alaska. Cowan, J.R., [1995,eng] 50-2492
- Overview of environmental and hydrogeologic conditions at Chandalar Lake, Alaska. Cowan, J.R., [1995,eng] 50-2497
- Overview of environmental and hydrogeologic conditions at Cold Bay, Alaska. Rice, W.A., et al. [1995,eng] 50-2489
- Overview of environmental and hydrogeologic conditions at Farewell Bend, Alaska. Dorava, J.M., et al. [1995,eng] 50-2485
- Overview of environmental and hydrogeologic conditions at Fort Yukon, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2482
- Overview of environmental and hydrogeologic conditions at Galena, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2481
- Overview of environmental and hydrogeologic conditions at Hinchinbrook Island, Alaska. Dorava, J.M., et al. [1995,eng] 50-2486
- Overview of environmental and hydrogeologic conditions at Iliamna, Alaska. Hall, J.D., [1995,eng] 50-2495
- Overview of environmental and hydrogeologic conditions at Nome, Alaska. Dorava, J.M., [1995,eng] 50-2488
- Overview of environmental and hydrogeologic conditions at Puntilla Lake, Alaska. Dorava, J.M., et al. [1995,eng] 50-2487
- Overview of environmental and hydrogeologic conditions at Sitka, Alaska. Hogan, E.V., [1995,eng] 50-2494
- Overview of environmental and hydrogeologic conditions at Tanana, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2483
- Overview of environmental and hydrogeologic conditions at Unalakleet, Alaska. Dorava, J.M., [1995,eng] 50-2496
- Overview of environmental and hydrogeologic conditions at Wrangell, Alaska. Hogan, E.V., [1995,eng] 50-2493
- Overview of environmental and hydrogeologic conditions near Big Delta, Alaska. Nelson, G.L., [1995,eng] 50-2490
- Overview of environmental and hydrogeologic conditions near Petersburg, Alaska. Hogan, E.V., [1995,eng] 50-2491
- Patterns of early lake outcrops in Glacier Bay as inferred from diatom assemblages. Fritz, S.C., et al. [1995,eng] 50-3750
- Perennially frozen rock as a site for burying industrial wastes. Borisov, V.N., et al. [1996,rus] 50-6824
- Physical properties governing groundwater flow in a glacial till catchment. Hinton, M.J., et al. [1993,eng] 50-3693
- Proceedings. International Symposium on Biogeochemistry of Seasonally Snow-covered Catchments, Boulder, CO, July 1-14, 1995. [1995,eng] 50-2391
- Proceedings. International Symposium on Glacial Erosion and Sedimentation, Reykjavik, Iceland, Aug. 20-25, 1995. [1996,eng] 50-6232
- Processes controlling the chemistry of two snowmelt-dominated streams in the Rocky Mountains. Campbell, D.H., et al. [1995,eng] 50-2545
- Reassessment of the Eurasian river input of water, sediment, major elements, and nutrients to the Arctic Ocean. Gordeev, V.V., et al. [1996,eng] 50-5693
- Relation of snowpack chemistry to streamwater composition. Shanley, J.B., et al. [1995,eng] 50-2425
- Research on clay minerals in salt lakes of China. Xu, C., [1993,chi] 50-1850

- Saline-lake resources on the Qinghai-Xizang Plateau and their developed prospect. Zheng, M.P., [1992,chi] 50-1486
- Salt lakes in Xizang. Zheng, X.Y., et al. [1988,chi] 50-1848
- Salt lakes of Inner Mongolia. Zheng, X.Y., et al. [1992,chi] 50-1849
- Salt lakes of Qaidam Basin. Zhang, P.X., et al. [1987,chi] 50-1845
- Seasonal variability in high mountain lake water chemistry. Wögrath, S., et al. [1995,eng] 50-4077
- Seasonal variations of stream water chemistry in Spitsbergen. Potschin, M., et al. [1994,ger] 50-1587
- Simulated transport of three cations through porous media. Grant, S.A., et al. [1995,eng] 50-5598
- Snow and water chemistry of a headwater alpine basin, Urumqi River, Tian Shan, China. Liu, F.J., et al. [1995,eng] 50-2413
- Soluble salts and heavy hydrogen in Bosten Lake. Huang, Z.W., et al. [1991,chi] 50-5134
- Some geological problems regarding salt lakes on the Qinghai-Xizang Plateau. Zhang, P.X., [1986,chi] 50-1985
- Stable carbon isotope ratios in the waters of the Laptev Sea/Sep. 94. Erlenkeuser, H., et al. [1995,eng] 50-2082
- Stream flow hydrographic separation during watershed snowmelt. Sueker, J.K., [1995,eng] 50-2419
- Streamflow generation in a headwater basin on the Precambrian Shield. Wels, C., et al. [1991,eng] 50-3680
- Study of Bering Sea primary productivity. Sapozhnikov, V.V., et al. [1995,eng] 50-6687
- Subarctic lake pollution by gold mine arsenic effluent. Bright, D.A., et al. [1996,eng] 50-4207
- Subglacial meltwater composition sampled through boreholes. Lamb, H.R., et al. [1995,eng] 50-2433
- Surface water chemistry and hydrology of a small arctic drainage basin. Everett, K.R., et al. [1996,eng] 50-4847
- Surface water chemistry in alpine watersheds. Stottmeyer, R., et al. [1995,eng] 50-2424
- Suspended sediment weathering in alpine glacial meltwater. Brown, G.H., et al. [1996,eng] 50-6088
- Temperate rainforest lakes of Chile and British Columbia. Soto, D., et al. [1996,eng] 50-4066
- Tracer study of glacial drainage variations in Switzerland. Nienow, P., et al. [1996,eng] 50-5580
- Transient hydrogeological controls on the chemistry of a seepage lake. Krabbenhoft, D.P., et al. [1995,eng] 50-2730
- Transit time of meltwaters in alpine glaciers. Collins, D.N., [1995,eng] 50-2429
- Underground water of permafrost area in Da Hinggan Ling. Zheng, Q.P., [1989,chi] 50-1343
- Upland watershed hydrochemical response to acidification during snowmelt. Allan, C., [1995,eng] 50-5210
- Watershed hydrochemistry simulation. Ohte, N., et al. [1995,eng] 50-2410
- Weathering of aeolian dusts in alpine snows. Delmas, V., et al. [1996,eng] 50-4588
- Hydrogeology**
- Basic types of underground water in permafrost area on the Qinghai-Xizang Plateau. Guo, P.F., [1989,chi] 50-1345
- Cryolitholysis structure in an oil and gas-bearing province supply. Dedeov, V.A., et al. [1990,rus] 50-1630
- Distribution, origin, and hydraulic influence of fractures in a clay-rich glacial deposit. McKay, L.D., et al. [1995,eng] 50-3254
- Ecological problems in the cryogenic-hydrogeological conditions in northwestern Siberia. Petrova, R.G., et al. [1996,rus] 50-6847
- Effect of perennial rock freezing on the water saturation of coal basins. Elisafenko, T.N., [1985,rus] 50-249
- Engineering role of processes caused by the interaction of natural and artificial factors. Giotov, V.E., [1991,rus] 50-438
- Fluvial sediment transfer in the Central Alps. Höfner, T., [1993,ger] 50-3335
- Geologic and hydrogeologic mapping of Iceland with multisensor data. Münzer, U., et al. [1992,eng] 50-617
- Groundwater flow beneath ice sheets: part I—large scale patterns. Boulton, G.S., et al. [1995,eng] 50-2128
- Groundwater flow through Ontario glacial deposits. Gerber, R.E., et al. [1996,eng] 50-6750
- Hydrogeology and engineering geology of permafrost zones. Yang, R.T., et al. [1986,chi] 50-1169
- Impact of glaciation on the groundwater regime of northwest Europe. Boulton, G.S., et al. [1996,eng] 50-5326
- Laboratory technique for measurement of spectral induced polarization response of soil samples. Vanhala, H., et al. [1995,eng] 50-2998
- Lumped-element model for subglacial transport of solute and suspended sediment. Clarke, G.K.C., [1996,eng] 50-6254
- Method of preparing a geocryological foundation for hydrogeological mapping. Lomovtseva, N.S., [1996,rus] 50-6365
- Overview of environmental and hydrogeologic conditions at Bethel, Alaska. Dorava, J.M., et al. [1995,eng] 50-2484
- Overview of environmental and hydrogeologic conditions at Bettles Field, Alaska. Cowan, J.R., [1995,eng] 50-2492
- Overview of environmental and hydrogeologic conditions at Chandalar Lake, Alaska. Cowan, J.R., [1995,eng] 50-2497
- Overview of environmental and hydrogeologic conditions at Cold Bay, Alaska. Rice, W.A., et al. [1995,eng] 50-2489
- Overview of environmental and hydrogeologic conditions at Farewell Bend, Alaska. Dorava, J.M., et al. [1995,eng] 50-2485
- Overview of environmental and hydrogeologic conditions at Fort Yukon, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2482
- Overview of environmental and hydrogeologic conditions at Galena, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2481

- Overview of environmental and hydrogeologic conditions at Hinchinbrook Island, Alaska. Dorava, J.M., et al. [1995,eng] 50-2486
- Overview of environmental and hydrogeologic conditions at Iliamna, Alaska. Hall, J.D., [1995,eng] 50-2495
- Overview of environmental and hydrogeologic conditions at Nome, Alaska. Dorava, J.M., [1995,eng] 50-2488
- Overview of environmental and hydrogeologic conditions at Puntilla Lake, Alaska. Dorava, J.M., et al. [1995,eng] 50-2487
- Overview of environmental and hydrogeologic conditions at Sitka, Alaska. Hogan, E.V., [1995,eng] 50-2494
- Overview of environmental and hydrogeologic conditions at Tanana, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2483
- Overview of environmental and hydrogeologic conditions at Unalakleet, Alaska. Dorava, J.M., [1995,eng] 50-2496
- Overview of environmental and hydrogeologic conditions at Wrangell, Alaska. Hogan, E.V., [1995,eng] 50-2493
- Overview of environmental and hydrogeologic conditions near Big Delta, Alaska. Nelson, G.L., [1995,eng] 50-2490
- Overview of environmental and hydrogeologic conditions near Petersburg, Alaska. Hogan, E.V., [1995,eng] 50-2491
- Perennially frozen rock as a site for burying industrial wastes. Borisov, V.N., et al. [1996,rus] 50-6824
- Permafrost hydrology in the Greater Khingan Range. Lin, F.T., et al. [1989,chi] 50-1344
- Problems in geocryological studies in northern Yakutia. Liubomirov, A.S., et al. [1991,rus] 50-1304
- Problems in protecting the geological environment; in the example of Eastern Siberia. Pinnaker, E.V., ed, [1993,rus] 50-91
- Proceedings. International Symposium on Glacial Erosion and Sedimentation, Reykjavik, Iceland, Aug. 20-25, 1995. [1996,eng] 50-6232
- Qinghai Lake paleohydrological variations due to climatic changes. Nakao, K., et al. [1995,eng] 50-6718
- Requirements for heap leaching under permafrost conditions. Putsyn, A.B., [1995,eng] 50-418
- Russian soil depletion by snowmelt. Chernyshev, E.V., et al. [1995,eng] 50-2148
- Seismic investigation of glacial tunnel channels. Pugin, A., et al. [1996,eng] 50-6257
- Subpermafrost groundwater in Chukotka. Ruzanov, V.T., et al. [1996,rus] 50-6367
- Using geophysical methods to study characteristics of the Dzhanbul Glacier moraines. Alekhin, A.S., et al. [1972,rus] 50-526
- Hydrography**
- Acoustic wave perturbations within the Barents Sea Polar Front. Lynch, J.F., et al. [1996,eng] 50-4590
- ADCP-referenced geostrophic circulation in the Bering Sea basin. Cokelet, E.D., et al. [1996,eng] 50-6635
- Anatomy of the Arctic Frontal Zone in the Greenland Sea. van Aken, H.M., et al. [1995,eng] 50-573
- Antarctic bottom water formation and the global cadmium to phosphorus relationship. Frew, R.D., [1995,eng] 50-752
- Antarctic jets. Burkov, V.A., [1994,eng] 50-865
- Arctic Ocean deep water masses in the western Iceland Sea. Buch, E., et al. [1996,eng] 50-5856
- Atlantic water in the arctic basin. 2. Circulation. Dmitriev, N.E., et al. [1995,eng] 50-6549
- Biogeochemical study in the Bellingshausen Sea: overview of the STERNA 1992 expedition. Turner, D.R., et al. [1995,eng] 50-1021
- Bunger Hills—its genesis and some physiogeographical problems. Wisniewski, E., [1989,pol] 50-2873
- Case study in three-dimensional inverse methods: combining hydrographic, acoustic, and moored thermistor data in the Greenland Sea. Morawitz, W.M.L., et al. [1996,eng] 50-5167
- Characteristics of runoff formation at the Kirgizskiy Alatau, Tien Shan. Aizen, V.B., et al. [1995,eng] 50-2435
- Chemical and isotopic tracers of snowmelt flowpaths in a subalpine watershed. Miller, E.K., et al. [1995,eng] 50-2427
- Circulation and transport of water along the western Weddell Sea margin. Muench, R.D., et al. [1995,eng] 50-568
- Circulation and water mass modifications along the Nansen Basin slope. Schauer, U., et al. [1995,eng] 50-2074
- Climate, snow cover, glaciers, and runoff in the Tien Shan, central Asia. Aizen, V.B., et al. [1995,eng] 50-2538
- Cold bottom water in the southern Laptev Sea. Churun, V.N., et al. [1995,eng] 50-2076
- Comments on the use of chemically based mixing models in glacier hydrology. Sharp, M., et al. [1995,eng] 50-447
- Current water quality in Cook Inlet, Alaska. study. University of Alaska. Environment and Natural Resources Institute. [1995,eng] 50-4400
- Deep water formation in the Greenland Sea. Pawlowicz, R.A., et al. [1996,eng] 50-6669
- Direct evidence for northward flow on the northwestern Bering Sea shelf. Overland, J.E., et al. [1996,eng] 50-5266
- Direct measurements of transport and water properties through the Bering Strait. Roach, A.T., et al. [1995,eng] 50-566
- Doppler observations of Bering Sea ice edge ocean circulation. Okkonen, S., et al. [1995,eng] 50-1032
- Dynamics of underground waters in Calypsostranda region in 1990 (Western Spitsbergen). Bartoszewski, S., [1993,eng] 50-2194
- Ecological investigations in the Bering Sea. Sapozhnikov, V.V., [1994,eng] 50-869

Hydroinsulation

- Effect of climate change on hydrologic regime of two climatically different watersheds. Loukas, A., et al. [1996,eng] 50-6100
- Effects of avalanche snow redistribution on summer streamflow variations. de Scally, F.A., [1996,eng] 50-4333
- Effects of climate change on water supplies in mountainous snowmelt regions. Rango, A., [1995,eng] 50-6617
- Eruption-triggered debris flow on snow-clad volcanoes. Pierson, T.C., [1995,eng] 50-1655
- Estimation of mean flow velocity in ice-covered channels—discussion. Engel, P., et al. [1996,eng] 50-6338
- Exceptional storm and its effects in the Canadian High Arctic. Cogley, J.G., et al. [1976,eng] 50-3679
- Expedition ARKTIS X/I of the research vessel *Polarstern* in 1994. Fahrbach, E., ed. [1995,ger] 50-3157
- Exploring the Barents Sea polar front. Gawarkiewicz, G., et al. [1996,eng] 50-6672
- Factors controlling suspended sediment transport in Himalayan glacier meltwaters. Hasnain, S.I., [1996,eng] 50-5688
- Fall phytoplankton biomass, P-I relationships and primary production in the Weddell Sea. Dower, K.M., et al. [1996,eng] 50-4008
- Fine resolution numerical model of the Iceland-Farø front with open boundary conditions. Griffiths, C., [1995,eng] 50-571
- Flow trajectories in the Bering Sea: evidence for chaos. Reed, R.K., et al. [1990,eng] 50-4730
- Fluvial sediment transfer in the Central Alps. Höfner, T., [1993,ger] 50-3335
- Flux of dense cold overflow water southeast of Iceland. Saunders, P.M., [1996,eng] 50-3145
- Formation and discharge of deep and bottom water in the north-western Weddell Sea. Fahrbach, E., et al. [1995,eng] 50-670
- Frontal signals east of Iceland from the GEOSAT altimeter. Robinson, A.R., et al. [1989,eng] 50-4707
- Glimpse beneath the ice. Plueddemann, A.J., [1996,eng] 50-6674
- High precision ^{230}Th and ^{238}Th in the Norwegian Sea and Denmark by thermal ionization mass spectrometry. Moran, S.B., et al. [1995,eng] 50-2022
- High resolution observations of Weddell Sea surface currents using ERS-1 SAR sea-ice motion vectors. Thomas, J.P., et al. [1995,eng] 50-1819
- Hydrologic pathways in an alpine watershed. Mast, M.A., et al. [1995,eng] 50-2418
- Hydrological modelling of watershed snowmelt runoff. Bathurst, J.C., et al. [1996,eng] 50-3728
- Hydrology of Bregger Glacier, Spitsbergen. Kodama, Y., et al. [1995,eng] 50-3249
- Ice force and scour instrumentation for the White River, Vermont. Zabilansky, L.J., [1996,eng] 50-6073
- Inertial currents in the Beaufort Sea: observations of response to wind and shear. Merrifield, M.A., et al. [1996,eng] 50-4299
- Integrated approach to modelling hydrology and water quality in glacierized catchments. Richards, K.S., et al. [1996,eng] 50-6083
- Jökulhlaup from Katla in 1918. Tómasson, H., [1996,eng] 50-6268
- Lakes and marshes in Hokkaido. Sakata, Y., ed. et al. [1990,jpn] 50-2292
- Late Younger Dryas to Holocene palaeoenvironments of the southern Kattegat, Scandinavia. Conradsen, K., [1995,eng] 50-2861
- Maintaining the thermohaline circulation. Mauritzen, C., et al. [1996,eng] 50-6670
- Major palaeohydrographic changes in alpine foreland during the Pliocene-Pleistocene. Petit, C., et al. [1996,eng] 50-6538
- Major, minor, and trace element chemistry of surface waters in the Everest region of Nepal. Reynolds, B., et al. [1995,eng] 50-2434
- Meltwater event in the North Atlantic during last glacial maximum. Seidov, D., et al. [1996,eng] 50-6217
- Mesoscale-fine structure relationship in antarctic ocean currents. Shapiro, G.I., et al. [1994,eng] 50-866
- Modeling climatic sensitivity of European marginal seas. Backhaus, J.O., [1996,eng] 50-4022
- Modelling the redistribution of runoff caused by global warming. Martinez, J., et al. [1994,eng] 50-5202
- Movement of Laptev Sea shelf waters during the TRANSDRIFT II Expedition. Hass, H.C., et al. [1995,eng] 50-2078
- Numerical landscapes: static, kinematic and dynamic process-form relations. Richards, K., et al. [1995,eng] 50-4153
- Numerical study of the circulation of the Bering Sea basin and exchange with the North Pacific Ocean. Overland, J.E., et al. [1994,eng] 50-2855
- Organic carbon variations in stream waters during snowmelt. Boyer, E.W., et al. [1995,eng] 50-2422
- Physical and geochemical properties across the Atlantic/Pacific water mass front in the southern Canadian Basin. McLaughlin, F.A., et al. [1996,eng] 50-2845
- Phytoplankton seasonal bloom shift in Barents Sea ice. Strass, V.H., et al. [1996,eng] 50-6721
- Pollution distribution and hydrographic variability of the Kara Sea. Pavlov, V.K., et al. [1995,eng] 50-4557
- Preliminary hydrological results from Sarennes glacier basin, French Alps. Barbet, D., et al. [1993,eng] 50-5690
- Processes controlling the chemistry of two snowmelt-dominated streams in the Rocky Mountains. Campbell, D.H., et al. [1995,eng] 50-2545
- Real-time operational forecasting on shipboard of the Iceland-Farøe frontal variability. Robinson, A.R., et al. [1996,eng] 50-4742

- Relation of snowpack chemistry to streamwater composition. Shanley, J.B., et al. [1995,eng] 50-2425
- Release of brine-enriched shelf water from Storfjord into the Norwegian Sea. Schauer, U., [1995,eng] 50-574
- Representative glacier basins of the Bol'shaya Khadata River in 1969/70. Gus'kov, A.S., [1972,rus] 50-551
- Response of snowmelt hydrology to climate change. Brubaker, K.L., et al. [1996,eng] 50-6614
- RIVER3: simulation of river discharge and sediment transport. Syvitski, J.P.M., et al. [1995,eng] 50-3597
- Rivers and lakes of Xizang. Guan, Z.H., et al. [1984,chi] 50-1846
- Role of sediment transport in the mechanics of jökulhlaups. Fowler, A.C., et al. [1996,eng] 50-6269
- Role of the large-scale Arctic Ocean circulation in the transport of contaminants. Schlosser, P., et al. [1995,eng] 50-4556
- Salt lakes of Inner Mongolia. Zheng, X.Y., et al. [1992,chi] 50-1849
- Sea of Okhotsk near-freezing diathermal layer variations. Yang, J.Y., et al. [1996,eng] 50-6219
- Sediments from the southern Weddell Sea. Melles, M., et al. [1995,eng] 50-5442
- Simple energy budget algorithm for the snowmelt runoff model. Kustas, W.P., et al. [1994,eng] 50-3819
- Simulation of streamflow in a macroscale watershed using general circulation model data. Kite, G.W., et al. [1994,eng] 50-3820
- Simulation of the mixed-layer circulation in the Arctic Ocean. Holland, D.M., et al. [1996,eng] 50-2843
- Snow hydrological parameters for modelling river runoff. Kuchment, L.S., et al. [1996,eng] 50-5519
- Snowmelt induced chemical changes in seven streams in the Sierra Nevada, California. Melack, J.M., et al. [1995,eng] 50-2414
- Spectrometry of Norwegian Sea water radioactive isotopes. Moran, S.B., et al. [1995,eng] 50-1186
- Spring-bloom time-series at the Bering Sea ice edge pt.1. Niebauer, H.J., et al. [1995,eng] 50-1031
- Stable isotopes as hydrologic tracers in South Cascade Glacier. Vaughn, B.H., [1994,eng] 50-5546
- Stream flow hydrographic separation during watershed snowmelt. Sueker, J.K., [1995,eng] 50-2419
- Streamflow generation in a headwater basin on the Precambrian Shield. Wels, C., et al. [1991,eng] 50-3680
- Subglacial lake burst variations in Iceland. Gudmundsson, M.T., et al. [1995,eng] 50-449
- Subtidal and tidal currents in the vicinity of the Iceland-Farøes front. Allen, J.T., [1995,eng] 50-159
- Temperature variability beneath Ronne Ice Shelf, Antarctica, from thermistor cables. Nicholls, K.W., [1996,eng] 50-2846
- Thermohaline characteristics of the shelf fronts in the western Bering Sea. Verkhunov, A.V., [1995,eng] 50-2533
- Turbulence in the statically unstable oceanic boundary layer under arctic leads. McPhee, M.G., et al. [1996,eng] 50-4297
- Vertical mixing processes in the western Weddell Sea. Robertson, R., et al. [1995,eng] 50-569
- Water resources data for Alaska, water year 1994. Bigelow, B.B., et al. [1995,eng] 50-2169
- Watershed hydrochemistry simulation. Ohte, N., et al. [1995,eng] 50-2410
- Weddell-I ice drift station in Antarctica. Mel'nikov, I.A., [1995,eng] 50-6689
- Winter-summer differences of carbon dioxide and oxygen in the Weddell Sea surface layer. Hoppema, M., et al. [1995,eng] 50-3006
- Hydroinsulation**
See [also]: Waterproofing
- Hydrologic cycle**
ARNO rainfall-runoff model. Todini, E., [1996,eng] 50-3729
- Asian summer monsoon sensitivity to Eurasian snow cover. Douville, H., et al. [1996,eng] 50-5863
- Atmospheric contribution to hydrologic variations in the Arctic. Walsh, J.E., et al. [1994,eng] 50-1034
- Classification of wetland and muskeg terrain. Pietroniro, A., et al. [1996,eng] 50-5541
- Climate, snow cover, glaciers, and runoff in the Tien Shan, central Asia. Aizen, V.B., et al. [1995,eng] 50-2538
- Cold climate hydrometeorology. Upadhyay, D.S., [1995,eng] 50-5508
- Damming James Bay: I. Potential impacts on coastal climate and the water balance. Rouse, W.R., et al. [1992,eng] 50-5030
- Dust in Greenland and antarctic ice cores of the LGM. Yung, Y.L., et al. [1996,eng] 50-2727
- Effect of climate change on hydrologic regime of two climatically different watersheds. Loukas, A., et al. [1996,eng] 50-6100
- Effect of river-ice break-up on suspended sediment and select trace-element fluxes. Milburn, D., et al. [1994,eng] 50-5698
- Effects of solar radiation variations on ice age initiation. Ledley, T.S., et al. [1995,eng] 50-1254
- Eight-year time series radiometric measurement of snow and sea ice covers. Ferraro, R.R., et al. [1996,eng] 50-5769
- Evaporation from a small lake in the continental Arctic using multiple methods. Gibson, J.J., et al. [1994,eng] 50-5694
- Exploring the behaviour of microwaves in a snowpack using modelling techniques. Leconte, R., [1996,eng] 50-5539
- Glacial drainage towards the Mediterranean during the Middle and Late Pleistocene. Arkhipov, S.A., et al. [1995,eng] 50-1799

- Hydrologic cycle parameterization for energy balance climate models. Chu, S.P., et al. [1995,eng] 50-587
- Hydrological controls on ecosystem gas exchange in an arctic landscape. Ostendorf, B., et al. [1996,eng] 50-4855
- Ice cloud microphysics in a general circulation model, pt.1. Fowler, L.D., et al. [1996,eng] 50-5015
- Impact crater lakes on Mars. Newsom, H.E., et al. [1996,eng] 50-5777
- Importance of the correction of precipitation measurements on the Tibetan Plateau. Ueno, K., et al. [1996,eng] 50-5775
- Isotopic analysis of snow on Asian glacier surfaces. Aizen, V.B., et al. [1996,eng] 50-5256
- Mechanisms of direct and indirect climate forcing by aerosols in the arctic region. Blanchet, J.P., [1995,eng] 50-1642
- Numerical analysis of atmospheric water cycle over Antarctica. Bromwich, D.H., et al. [1995,eng] 50-2020
- Nutrients in the Aral Sea in winter. Tsytsarin, A.G., [1995,eng] 50-5481
- Patch and landscape models of arctic tundra: potentials and limitations. Reynolds, J.F., et al. [1996,eng] 50-4852
- Plausible hydrological scenario for the Bolling-Allerød atmospheric methane increase. Kalin, R.M., et al. [1996,eng] 50-4376
- Preliminary considerations for runoff modelling in GCMs. Verseghe, D., [1994,eng] 50-5701
- Reconstruction of 1000-year winter precipitation from tree rings in New Mexico. D'Arrigo, R.D., et al. [1991,eng] 50-5032
- Regional snow and water balance models. Xu, C.Y., et al. [1996,eng] 50-5835
- Remote sensing in hydrology and water management. Haefner, H., et al. [1992,eng] 50-621
- Role of ice in the global water cycle. Lawford, R.G., [1993,eng] 50-5079
- Runoff modeling of a small river basin. Ambrose, B., et al. [1996,eng] 50-6586
- Scaling of input data for macroscale hydrologic modeling. Kite, G.W., [1995,eng] 50-2544
- Simulation of climatic model of global snow cover evolution. Douville, H., et al. [1995,eng] 50-2736
- Simulation of soil moisture variations reflecting the hydrological cycle. Akinremi, O.O., et al. [1996,eng] 50-5918
- Simulation of streamflow in a macroscale watershed using general circulation model data. Kite, G.W., et al. [1994,eng] 50-3820
- Snow cover variations in a field catchment area. Shutov, V.A., [1995,eng] 50-2729
- Soluble salts and heavy hydrogen in Bosten Lake. Huang, Z.W., et al. [1991,chi] 50-5134
- Variability in atmospheric circulation and moisture flux over the Arctic. Serreze, M.C., et al. [1995,eng] 50-5228
- Hydrology**
Arctic oceanography: the path of North Atlantic Deep Water. [1994,eng] 50-976
- Assessment of hydrological changes. Hiltunen, T., [1994,eng] 50-3184
- Calculating thermal and water resources of small river catchment areas in Siberia: part 2. Karnatevich, I.V., [1991,rus] 50-132
- Climate change impact on hydrology and cryology. Sæthun, N.R., [1995,eng] 50-1005
- Ecological classification of Michigan wetland ecosystems. Zogg, G.P., et al. [1996,eng] 50-3297
- Effect of extreme weather conditions on hydrological phenomena in Spitsbergen. Szczepanik, W., et al. [1989,pol] 50-2914
- Effect of the geographic environment on the occurrence of surface waters from a terraced tundra plain. Szczepanik, W., [1989,pol] 50-2918
- Effects of climate change on water supplies in mountainous snowmelt regions. Rango, A., [1995,eng] 50-6617
- Frost heave due to ice lens formation in freezing soils. 1. Theory and verification. Sheng, D., et al. [1995,eng] 50-742
- Geostrophic circulation of water in the vicinity of the meteorological vessel "M" in March-April 1987. Korotkov, S.V., [1992,rus] 50-1263
- Glacial to modern changes in global river fluxes. Baker, V.R., [1994,eng] 50-1240
- Holocene environmental changes in a Tibetan lake basin, pt.3. Fan, H., et al. [1996,eng] 50-5092
- Hydrologic bibliography of Switzerland for 1994. Sevruck, B., ed. et al. [1994,ger] 50-4596
- Hydrologic role of soils and ecological methods of regulating water resources. Voronkov, N.A., [1995,eng] 50-3879
- Hydrological bibliography of Switzerland for 1992. Sevruck, B., et al. [1992,ger] 50-5028
- Influence of glacial deposits on river basin sedimentation. Campo, S.H., et al. [1994,eng] 50-2997
- Influence of runoff from land on the distribution of hydrologic characteristics of the Kara Sea. Burenkov, V.I., et al. [1995,eng] 50-3531
- Information booklet on the Arctic and Antarctic Research Institute (Russia). Mustafin, N.V., [1993,eng] 50-19
- Initial analyses of Eagle River Flats hydrology and sedimentology. Fort Richardson, Alaska. Lawson, D.E., et al. [1995,eng] 50-392
- Inter-diurnal variation of hydrometeorological elements of the Barents Sea. Girdiuk, G.V., [1992,rus] 50-1269
- Laptev Sea System: Expeditions in 1994. Kassens, H., ed. [1995,eng] 50-3156
- Leaching of organic carbon and nitrogen from forested catchments. Kortelainen, P., et al. [1994,eng] 50-3221

Hydrometeors

- Modeling the effects of climate change, air pollutants and land use on freshwater ecosystems: summary. Kauppi, L., et al. [1994,eng] 50-3192
- Object-GAWSER: object-oriented Guelph all-weather storm-event runoff model. Phase 1: training manual. Hinckley, J.A., Jr., [1996,eng] 50-4545
- Plant nutrient runoff in Norwegian watersheds. Haraldsen, T.K., et al. [1995,eng] 50-741
- Recent history of the Bering Strait. Svitoch, A.A., et al. [1995,eng] 50-2535
- Remote sensing in hydrology and water management. Haefner, H., et al. [1992,eng] 50-621
- Research on the concentration of suspended matter in the rivers of Kaffiöyry (NW Spitsbergen). Pietrucied, C., et al. [1989,pol] 50-2917
- RIVER3: simulation of river discharge and sediment transport. Syvitski, J.P.M., et al. [1995,eng] 50-3597
- Reservoirs of Central Asia. Nikitin, A.M., [1991,rus] 50-2518
- Simulation of streamflow in a macroscale watershed using general circulation model data. Kite, G.W., et al. [1994,eng] 50-3820
- Some results of integrated studies of the Alaarcha River basin. Tsytsenko, K.V., [1973,rus] 50-428
- Sound propagation through hydrological fronts in the Barents Sea. Aleksandrov, I.A., [1995,eng] 50-3311
- Source areas for storm runoff generation estimated by isotope methods and the TOPMODEL. Lepistö, A., et al. [1994,eng] 50-3193
- Temporal analysis of ERS-1 SAR backscatter for hydrology applications. Crevier, Y., et al. [1996,eng] 50-5543
- Thermal Orvin spring below Mount Gnälberget (Hornsund, Spitsbergen). Pociask-Karteczka, J., [1989,eng] 50-2922
- Ultraviolet and visible solar irradiance at the Weddell-Scotia Confluence, spring 1993. Sikorski, R.J., et al. [1994,eng] 50-4244
- Water resources data for Alaska, water year 1994. Bigelow, B.B., et al. [1995,eng] 50-2169
- Wetlands and ground water in the United States. Stone, A.W., et al. [1994,eng] 50-971
- See [also]: Glacial hydrology; Permafrost hydrology; Snow hydrology; Surface waters
- Hydrometeors**
See [also]: Precipitation (meteorology)
- Hydrothermal processes**
Analyzing the transformation of organic matter in anthropogenically altered soil. Popov, A.I., et al. [1994,rus] 50-276
- Hygrometers**
Comments on paper by P.S. Anderson. Makkonen, L., et al. [1996,eng] 50-6587
- Diode laser humidity sensor for cold environments. Phase II final technical report. Silver, J.A., et al. [1991,eng] 50-4525
- Innovations on a quartz crystal microbalance frost-point hygrometer. Kaluzhny, M., et al. [1995,eng] 50-414
- See [also]: Moisture meters
- Hygroscopic water**
Freezable water in portland cement paste. Gress, D.L., et al. [1995,eng] 50-2631
- Freeze/thaw treatment on waste activated sludge: a FTIR spectroscopic study. Hong, S.G., et al. [1995,eng] 50-1568
- Study of the heat of crystallization of bound water in clay soils. Starostin, E.G., et al. [1996,rus] 50-6809
- Subzero temperature water behavior in nonionic microemulsions. pt.1. Gardi, N., et al. [1996,eng] 50-3409
- Unfrozen water types in hydrated phospholipid bilayers. Hsieh, C.H., et al. [1995,eng] 50-3038
- Water movement in wet snow. Gray, J.M.N.T., [1996,eng] 50-3727
- Hygroscopicity**
Sulfate aerosols and climate change. Kerminen, V.-M., et al. [1994,eng] 50-3188
- X-ray and neutron scattering studies of the structure of water at a hydrophobic surface. Bellissent-Funel, M.C., et al. [1996,eng] 50-5713
- Hypothermia**
See [also]: Cold exposure
- Ice**
Ice flow observations along traverse routes from the coast to Dome Fuji. Motoyama, H., et al. [1995,eng] 50-1692
- Multilingual ice terminology. Addendum I. International Association for Hydraulic Research. Section on Ice Problems. [1980,eng] 50-3241
- Sound velocity in water and ice. Ruocco, G., et al. [1996,eng] 50-3102
- See [also]: Amorphous ice; Artificial ice; Bottom ice; Colored ice; Cubic ice; Dendritic ice; Deuterium oxide ice; Doped ice; Dry ice (trade name); Extraterrestrial ice; Fast ice; Floating ice; Fossil ice; Frazil ice; Glacier ice; Glaciology; Glaze; Ground ice; Grounded ice; High pressure ice; Interstitial ice; Lake ice; Land ice; Naleds; Pack ice; River ice; Salt ice; Sea ice; Snow ice; Spongy ice; Underwater ice; Vitreous ice; Young ice
- Ice (construction material)**
Device for shaping ice roads. Khan, V.B., et al. [1992,rus] 50-1933
- Effects of prestressing on floating ice sheets. Quimby, T.B., et al. [1995,eng] 50-2943
- Ice and construction. Makkonen, L., ed. [1994,eng] 50-399
- Ice platform. Gabibov, F.G., et al. [1992,rus] 50-1924
- Ice shell roof for use in cold areas. Kokawa, T., [1984,eng] 50-3166

- Mathematical model of spray ice island creep. Thiel, D.T., et al. [1991,eng] 50-1720
- Means of raising an ice structure on the shelf of ice-covered seas. Savel'ev, B.A., et al. [1992,rus] 50-1912
- Mechanics of ice strength and breakup when erecting ice structures in the Arctic. Krasnov, I.U.N., [1989,rus] 50-2254
- New challenges for the pipeline engineer in the Russian Arctic. Brown, R.J., [1995,eng] 50-212
- Reinforcement percentage effects on bending strength of soil-ice mixtures. Nixon, W.A., et al. [1995,eng] 50-358
- Sea ice landing strip for Boeing-727 in northern Greenland. Sinha, N.K., [1995,eng] 50-2973
- Temporary snow and ice pavement structures. Scher, R.L., [1996,eng] 50-6189
- Using sea ice as ice platforms and ice roads in fishery harbors. Okubo, Y., et al. [1996,jpn] 50-5889
- Variation in ice strength at its interaction with ice and structures. Krasnov, I.U.N., [1990,eng] 50-97
- Ice (water storage)**
Cool thermal discharges from ice melting with specified heat fluxes on the boundary. Yeh, H.M., et al. [1996,eng] 50-5521
- Glacier resources and distributive characteristics in the Central Asia Tianshan Mountains. Liu, C.H., [1995,chi] 50-5630
- Modeling of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996,eng] 50-6715
- Transporting icebergs as a fresh water source. [1974,eng] 50-4026
- Ice accretion**
Accretion of monodisperse droplets on a thin wire. Prodi, F., et al. [1996,eng] 50-5393
- Aircraft icing handbook. [1993,eng] 50-5064
- Airfoil with integral de-icer using overlapped tubes. Rauckhorst, R.L., [1993,eng] 50-2338
- Analyses of conductor ice accretion and meteorological characteristics. Luo, N., et al. [1996,eng] 50-5376
- Analytical study of frost nucleation and growth during the crystallization period. Şahin, A.Z., [1995,eng] 50-44
- Anemometer for transmission line maintenance in heavy icing areas. Ozawa, A., et al. [1996,eng] 50-5395
- Antarctic ice sheet mass balance. Loewe, F., [1961,ger] 50-6422
- Artificial ice tests for long insulator strings. Wu, D., et al. [1996,eng] 50-5341
- Artificial rime-covering and discharge test of long insulator strings. Su, F.H., et al. [1996,eng] 50-5390
- Atmospheric ice ablation processes on Mt. Equinox, Vermont. U.S.A. Ryerson, C.C., et al. [1996,eng] 50-5375
- Augmentation or suppression of ice accumulation on a cold flat-plate in water-flow channel. Hirata, T., et al. [1996,eng] 50-6462
- Aviation meteorology for visual and instrument flight rules: aircraft icing. McCool, K.B., [1992,eng] 50-3706
- Basal debris entrainment of Canadian arctic glaciers. Zdanowicz, C.M., et al. [1996,eng] 50-6247
- Cable galloping model for thin ice accretions. McComber, P., et al. [1996,eng] 50-5381
- Cable twisting due to atmospheric icing. McComber, P., et al. [1995,eng] 50-205
- Calibration of anemometers for use in icing conditions. Makkonen, L., et al. [1996,eng] 50-5348
- Characteristics of surface roughness associated with leading-edge ice accretion. Shin, J.W., [1996,eng] 50-4407
- Choosing the route of overhead lines in the Czech Republic. Zálešák, Z., et al. [1996,eng] 50-5398
- Clean wings for winter. Steenblik, J.W., [1992,eng] 50-2981
- Climate of freezing rain over the province of Québec in Canada: a preliminary analysis. Laflamme, J.N., et al. [1996,eng] 50-5333
- Combined wind and ice loads from historical extreme wind and ice data. Krishnasamy, S., et al. [1996,eng] 50-5350
- Combined wind and ice loads on telecommunication towers in Quebec. Phase I. Elfashny, K., et al. [1996,eng] 50-5353
- Comparison of aircraft icing forecast models. Cornell, D., et al. [1995,eng] 50-2471
- Comparison of glaze and in-cloud icing events on a test line. Druetz, J., et al. [1995,eng] 50-2951
- Computer model of glaze accretion on wires. Draganou, G., et al. [1996,eng] 50-5160
- Coupled vertical and horizontal galloping—discussion. Havard, D.G., et al. [1993,eng] 50-3253
- DC characteristics of local arc on ice surfaces. Farzaneh, M., et al. [1996,eng] 50-5344
- Design of an anemometer for extreme conditions. Krynski, L., et al. [1996,eng] 50-4028
- Dynamic response of ice shedding on electrical transmission lines. Fekr, M.R., et al. [1996,eng] 50-5338
- Effect of ice and atmospheric pressure on insulator flashover. Shu, L.C., et al. [1996,eng] 50-5368
- Effect of icing on the dynamic behaviour of guyed antenna towers. Wahba, Y.M.F., et al. [1996,eng] 50-5378
- Effects of high voltage on the structure of ice. Farzaneh, M., et al. [1996,eng] 50-5387
- Effects of wind, snow and ice on fiber optic overhead lines. Wareing, J.B., [1996,eng] 50-5349
- Efficacy of ice detector hoarfrost observations. Ryerson, C.C., et al. [1996,eng] 50-4033
- Evaluating the effects of icing on wind turbines. Walsh, M., [1992,eng] 50-3636
- Evaluation of the proposed ASOS freezing rain sensor. Ramsay, A.C., [1996,eng] 50-4034

Ice accretion

- Experience and analysis of galloping phenomenon in overhead transmission lines in Iran. Javahermandesh, M., [1996,eng] 50-5404
- Experiences of wind gauges used for measurements in cold regions. Tammelin, B., [1992,eng] 50-3637
- Experimental verification of a pendant ice formation model. Szilder, K., et al. [1995,eng] 50-206
- Factors influencing flashover characteristics along ice surfaces. Chen, X., et al. [1996,eng] 50-5343
- Failures of overhead lines due to ice and wet snow in Serbia. Vučković, Z., et al. [1996,eng] 50-5365
- February 1994 ice storm in the southeastern U.S. Lott, J.N., et al. [1996,eng] 50-5372
- Fifteen years field trials of galloping controls for overhead power lines. Havard, D.G., [1996,eng] 50-5382
- Flashover between power lines caused by ice shedding. Savadjiev, K., et al. [1996,eng] 50-5386
- Flashover on ice surfaces. Farzaneh, M., et al. [1996,eng] 50-5389
- Focus 2000: wind, ice, and fog. Annual Mount Washington Observatory Symposium. 4th, North Conway, NH, June 23-24, 1995. [1996,eng] 50-4027
- Freezing of a liquid jet on the inside surface of a cold pipe. Naraghi, M.N., [1994,eng] 50-691
- Freezing-rain reporting capability of the Automated Surface Observing System (ASOS). Ramsay, A.C., [1996,eng] 50-5334
- Freshwater spongy spray icing model with surficial structure. Blackmore, R.Z., et al. [1996,eng] 50-5335
- Galloping events and associated meteorological condition experienced in Hokuriku area. Kasima, H., et al. [1996,eng] 50-5380
- Galloping of iced electrical transmission lines. Popplewell, N., et al. [1996,eng] 50-5377
- Galloping on overhead transmission test lines with artificial snow. Ozawa, A., et al. [1996,eng] 50-5379
- Glaciology of the McMurdo Ice Shelf in the area of air operations. Klovov, V., et al. [1995,eng] 50-1194
- Heat transfer in staggered and in-line tube bank designs for ice making. Internmann, P.A., et al. [1996,eng] 50-6447
- Heated anemometer for atmospheric icing environments. Kenyon, P.R., et al. [1992,eng] 50-3638
- How to measure the wind accurately in icing conditions. Kenyon, P.R., et al. [1996,eng] 50-4030
- Ice accretion and persistence measuring instrument. Franklin, C.H., et al. [1991,eng] 50-4364
- Ice accretion in freezing rain. Jones, K.F., [1996,eng] 50-2245
- Ice accretion weight on overhead transmission line cables. Savadjiev, K., et al. [1996,eng] 50-5351
- Ice accumulation on fixed and floating ocean structures. Minsk, L.D., [1975,eng] 50-5755
- Ice accumulation, western Queen Maud Land. Swithinbank, C., [1959,eng] 50-6203
- Ice and construction. Makkonen, L., ed. [1994,eng] 50-399
- Ice and snow damage to high voltage overhead lines in Romania. Goia, L.M., et al. [1996,eng] 50-5366
- Ice formation on the guywires of Hydro-Québec telecommunication towers. Gastonguay, L., et al. [1996,eng] 50-5402
- Ice free fire escapes. [1991,eng] 50-4379
- Ice risk levels—a practical approach to design. Støttrup-Andersen, U., [1996,eng] 50-5354
- Ice shedding effects on an overhead transmission line. Jamaledine, A., et al. [1996,eng] 50-5337
- Ice storm management on an electrical utility system. Hall, J.W., [1996,eng] 50-5367
- Ice tank tests on pressure ridge formation. Lensu, M., et al. [1995,eng] 50-4582
- ICEYE: development of an aircraft ice accretion warning and monitoring system. Slaba, J., et al. [1995,eng] 50-4036
- Icing conditions encountered by a research aircraft. Sand, W.R., et al. [1984,eng] 50-4493
- Icing countermeasures for small parabolic receiving antennas. Suzuki, M., et al. [1977,jpn] 50-5796
- Icing of wind turbine rotor blades during operation. Seifert, H., [1992,eng] 50-3631
- Icing rate measurements: a key way of estimating ice loads on structures. Laflamme, J.N., [1996,eng] 50-5359
- Icing rate meter estimation of transmission line icing. McComber, P., et al. [1996,eng] 50-4031
- Icing rate meter, an instrument to evaluate transmission line icing. McComber, P., et al. [1996,eng] 50-5357
- Icing test and rework of WECS for use on Lapland's fjells. Böhmke, G., et al. [1992,eng] 50-3635
- IEC TC11 WG11—report on meteorological data for assessing climatic loads. Ervik, M., et al. [1996,eng] 50-5347
- Impact of potential TV tower icing on a nearby proposed expressway. Courtney, F.E., [1993,eng] 50-6664
- Improved numerical model for wind turbine icing. Finstad, K.J., et al. [1996,eng] 50-5391
- Inflight icing part III: operations. Steenblik, J.W., [1995,eng] 50-4704
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1995,eng] 50-2954
- Innovations on a quartz crystal microbalance frost-point hygrometer. Kaluzhny, M., et al. [1995,eng] 50-414
- Insulators in icing conditions: selection and measures for reliability increasing. Sklenička, V., et al. [1996,eng] 50-5342
- Leakage resistance of iced insulators and chemical data of ice and snow. Sugawara, N., et al. [1996,eng] 50-5384

Ice acoustics

Ice air interface

- Measurement of ice accretion and persistence at unmanned sites. Final report. Hill, G.E., [1990,eng] 50-4365
- Measurements of ice and snow loads on the Tye Lake 138 kV line. Peabody, A.B., [1996,eng] 50-5346
- Measuring wind speed in freezing rain. Claffey, K.J., et al., [1996,eng] 50-4029
- Mechanical behavior of ice loaded optical ground wires. Savadjev, K., et al., [1995,eng] 50-2953
- Method and apparatus for timed de-icing. Kugelman, M.M., et al., [1987,eng] 50-2334
- Methods to estimate ice accumulations on surface structures. Schaub, W.R., Jr., [1996,eng] 50-5360
- Microstructure and mechanical properties of some small impact ice accretions. Hammond, D.W., [1996,eng] 50-5339
- Model for spraying and three-dimensional icing on a stern trawler. Chung, K.K., et al., [1995,eng] 50-2955
- Modeling power line icing in freezing precipitation. Makkonen, L., [1996,eng] 50-5362
- Modelling of frost formation in rotary heat exchangers. Bilo-deau, S., et al., [1996,eng] 50-6477
- Modelling of icing on structures from fresh and light salt water. Frolov, A.D., et al., [1996,eng] 50-6458
- Molecular dynamics simulation of vapor deposited amorphous ice. Essmann, U., et al., [1995,eng] 50-419
- National climatic reference base for exceptional wet snow and rime ice episodes. Raison, T., et al., [1996,eng] 50-5331
- New transducer for measurement of ice loads for utilities. Seppa, T.O., [1996,eng] 50-5397
- Numerical simulation of aircraft icing on wings and nacelles. Brahimi, M.T., et al., [1996,eng] 50-5392
- Numerical study of iced conductors aerodynamics. Ilinca, A., et al., [1996,eng] 50-5336
- Passive melting of ice and snow on solar photovoltaic arrays. Ross, M.M.D., et al., [1996,eng] 50-5370
- Polish design standards for transmission line icing. Dembicki, E., et al., [1996,eng] 50-5396
- Potential icing forecast compared with NOAA-14 images. Fuchs, W., et al., [1996,eng] 50-5374
- Procedure for estimating ice load on overhead wires based on short term observations. Sakamoto, Y., et al., [1996,eng] 50-5363
- Proceedings. TWALS '96. International Workshop on Atmospheric Icing of Structures, 7th, Chicoutimi, Quebec, June 3-7, 1996, [1996,eng] 50-5329
- Proceedings. Volume IV. Arctic/polar technology. International Conference on Offshore Mechanics and Arctic Engineering (OMAE), 14th, Copenhagen, Denmark, June 18-22, 1995, [1995,eng] 50-2935
- Proceedings. International Experts' Meeting on Wind Power in Icing Conditions, Helsinki, Finland, 1992. Boreas-North Wind-Pohjatuuli, [1992,eng] 50-3626
- Production and depletion of supercooled liquid water in a Colorado winter storm. Politovich, M.K., et al., [1995,eng] 50-3560
- Research overview of ground de/anti-icing products. Bernardin, S., et al., [1996,eng] 50-5401
- Rime accretion on the fells. Tammelin, B., et al., [1992,eng] 50-3639
- Rime climate in Sodankylä. Säänti, K., et al., [1992,eng] 50-3630
- Romanian experience in meteorological zoning for designing of overhead lines (OLs). Goia, L.M., [1996,eng] 50-5332
- Rotating multicylinder for measuring cloud water content and droplet size. Jones, K.F., et al., [1996,eng] 50-4032
- Sea ice formation in Cook Inlet Alaska: a high energy environment. Nelson, W.G., [1995,eng] 50-2944
- Simple model for freezing rain ice loads. Jones, K.F., [1996,eng] 50-5399
- Simulation of wet-snow accretion by axial growth on a transmission line conductor. Poos, G., et al., [1995,eng] 50-2349
- Snow accretion and galloping on overhead transmission lines. Ozawa, A., et al., [1996,eng] 50-5371
- Some effects of conductor twisting on galloping. Richardson, A.S., Jr., [1980,eng] 50-3698
- Structure of ice grown on high voltage conductors. Farzaneh, M., et al., [1995,eng] 50-208
- Structure-independent measurement of icing. Makkonen, L., [1992,eng] 50-3629
- Study and analysis of the factors having influence on ice coating of electric wires. Wang, S.L., [1996,eng] 50-5394
- Study of minimum flashover voltage of iced-covered suspension insulators. Shu, L.C., et al., [1996,eng] 50-5345
- Subglacial ice accretion in an Alaskan glacier. Strasser, J.C., et al., [1996,eng] 50-6250
- Tailplane stall: the rime is one reason. Dow, J.P., Sr., et al., [1993,eng] 50-2978
- Telemetering of climatic loads on Hydro-Québec 735 kV lines. Hardy, C., et al., [1996,eng] 50-5358
- Three-dimensional modelling of ice accretion micro structure. Szilder, K., et al., [1996,eng] 50-5340
- Transmission line ice measurements with tension monitoring systems. Seppa, T.O., [1996,eng] 50-5356
- Transmission line icing mechanism and study of new de-icing techniques. Jiang, X.L., et al., [1996,eng] 50-5368
- Turbine blade icing model. Finstad, K.J., et al., [1992,eng] 50-3628
- Turboprop tailplane icing. Steenblik, J.W., [1992,eng] 50-2979
- Validation of ice accretion models for freezing precipitation using field data. Haldar, A., et al., [1996,eng] 50-5361
- Water vapor transfer through a hydrophilic film at subzero temperatures. Oscewski, R.J., [1996,eng] 50-4498
- Wet snow icing combined with strong wind—field inspections and field measurements. Eliasson, A.J., et al., [1996,eng] 50-5352
- Why icing causes tailplane stalls. Ingelman-Sundberg, M., [1992,eng] 50-2980
- Wind energy research in NEMO—research program. Peltola, E., [1992,eng] 50-3627
- Wind measurements at Ylläs broadcasting station 1982-1991. Lehtonen, P., [1992,eng] 50-3632
- See [also]: Ice growth; Icing rate
- Ice acoustics**
- Acoustic and seismic studies of ice mechanics. Farmer, D., et al., [1995,eng] 50-6272
- Acoustic emissions during ice phase transformations. Sakharov, I.I., [1995,eng] 50-157
- Acoustic tomography of ice cracking and ridging. Rajan, S.D., [1995,eng] 50-6275
- Acoustics probe sea-ice mechanics. Rajan, S.D., [1996,eng] 50-6675
- Algorithm for simulating wave propagation through sea ice. Blackowiak, A.D., et al., [1995,eng] 50-1644
- Characteristics of sound reflected from sea ice. Aleksandrov, I.A., et al., [1995,eng] 50-3153
- Coupling and propagation of elastic waves in arctic pack ice. Jarvis, S.M., et al., [1994,eng] 50-5178
- Elastic properties of dense H₂O-ices studied by Brillouin spectroscopy. Shimizu, H., [1996,eng] 50-6725
- Fifteen years of arctic acoustics and ice camps. Von der Heydt, K., et al., [1996,eng] 50-6667
- High frequency acoustic response of sea ice to single load cycles: a preliminary analysis. Langhorne, P.J., et al., [1995,eng] 50-2940
- High-pressure elastic properties of the VI and VII phase of ice in dense H₂O and D₂O. Shimizu, H., et al., [1996,eng] 50-4355
- Ice-mounted acoustic element localization system. Sotirin, B.J., et al., [1994,eng] 50-5174
- ICEYE: development of an aircraft ice accretion warning and monitoring system. Slaba, J., et al., [1995,eng] 50-4036
- Improved detection of acoustic sources in ice-riding ocean environment. Zala, C.A., et al., [1995,eng] 50-1461
- Measurement of seismo-acoustic ocean-bottom properties in the high Arctic. Dosso, S.E., et al., [1995,eng] 50-1837
- Multipath navigation in the Arctic: a feasibility test. Deffenbaugh, M., et al., [1995,eng] 50-6308
- Nonlinear acoustic effects due to cracks in ice cover. Ekimov, A.E., et al., [1996,eng] 50-5291
- Proceedings. Sea Ice Mechanics and Arctic Modeling Workshop, Anchorage, AK, Apr. 25-28, 1995, [1995,eng] 50-6271
- Sea ice failure mechanisms. Pritchard, R.S., [1995,eng] 50-6274
- Sea Ice Mechanics Initiative (SIMI) geophone/hydrophone system. Stein, P.J., et al., [1995,eng] 50-6277
- Seismo-acoustic remote sensing of ice-mechanical processes in the Arctic. Schmidt, H., et al., [1995,eng] 50-6276
- Sound reflection from ice cover. Kudriashov, V.M., [1996,eng] 50-4627
- Student invents a prize-winning ice detector. Rice, D., [1996,eng] 50-5084
- Temporal evolution of under ice reflectivity. Laible, H.A., et al., [1996,eng] 50-4591
- Tidally forced under-ice Ekman layers observed by an acoustic Doppler current profiler. Marsden, R.F., et al., [1995,eng] 50-5933
- Towed geophone system for use in snow-covered terrain. King, E.C., et al., [1996,eng] 50-6225
- Transarctic acoustic propagation. Mikhalevsky, P.N., et al., [1995,eng] 50-6273
- Transition from normal to fast sound in liquid water. Sette, F., et al., [1996,eng] 50-5710
- Ultrasonic measurement of melting ice heat transfer coefficients. Bhanjali, A.P., et al., [1996,eng] 50-6760
- Underwater explosions beneath ice. Tanglis, E., et al., [1989,eng] 50-3836
- Ice adhesion**
- Adhesive properties of gas hydrates and ice. Bondarev, E.A., et al., [1996,eng] 50-6496
- Aircraft icing handbook [1993,eng] 50-5064
- Atmospheric ice ablation processes on Mt. Equinox, Vermont. U.S.A. Ryerson, C.C., et al., [1996,eng] 50-5375
- Calculating vertical ice loads on vertical structures at variable water levels. Nishihata, A., et al., [1996,eng] 50-5879
- Capillary bonding of wet surfaces and adhesion of skis to ice. Colbeck, S.C., [1996,eng] 50-6038
- Composition for an anti-icing coating. Bochmanov, A.D., et al., [1992,eng] 50-1920
- Device for determining ice adhesion. Gnatiuk, V.V., et al., [1992,eng] 50-1931
- Field experiments on uplift force on a steel pipe due to frost heaving. Fukuda, M., et al., [1989,eng] 50-2248
- Frozen soil-structure interfaces. Ladanyi, B., [1995,eng] 50-3806
- Ice adhesion near the melting point. Kamata, Y., et al., [1996,eng] 50-6487
- Ice formation on the guywires of Hydro-Québec telecommunications towers. Gastonguay, L., et al., [1996,eng] 50-5402
- Ice/metal interfaces: fracture energy and fractography. Wei, Y., et al., [1996,eng] 50-5243
- Microstructure and mechanical properties of some small impact ice accretions. Hammond, D.W., [1996,eng] 50-5339
- Microstructure and thermal conductivity of a model snow cover. Sato, A., et al., [1995,eng] 50-987
- Preliminary results of ice-aluminum interfacial fracture toughness testing. Whelan, A.E., et al., [1995,eng] 50-2959
- Research overview of ground de/anti-icing products. Bernardin, S., et al., [1996,eng] 50-5401
- Sea ice formation in Cook Inlet Alaska: a high energy environment. Nelson, W.G., [1995,eng] 50-2944
- Shear strength of ice rubble in laboratory tests. Lehmus, E., et al., [1995,eng] 50-181
- Tensile adfreezing strength between frozen soil and foundation. Ding, J.K., et al., [1989,eng] 50-1370
- Three-dimensional modelling of ice accretion micro structure. Szilder, K., et al., [1996,eng] 50-5340
- Ice age**
- See [also]: Pleistocene
- Ice age theory**
- 100 years of glacial theory and Quaternary topography of today. Gellert, J.F., [1990,eng] 50-1781
- Cenozoic Northern Hemisphere glaciations. Thiede, J., et al., [1995,eng] 50-5240
- Changes in climate and ice distribution in the Northern Hemisphere since the maximum of the last glaciation. Chizhov, O.P., [1972,eng] 50-541
- Climate dynamics and global change. Lindzen, R.S., [1994,eng] 50-5242
- Common features of the Upper Quaternary and historical glaciation in the Caucasus and Tien Shan. Gerasimov, V.A., [1972,eng] 50-543
- Current status and prospects of ice age research. Liedtke, H., [1990,eng] 50-1783
- Early studies on stratified drift. Jopling, A.V., [1975,eng] 50-4807
- Effect of orbital variations on past eolian deposits. Kurtzbach, J.E., [1989,eng] 50-5410
- Effects of solar radiation variations on ice age initiation. Ledley, T.S., et al., [1995,eng] 50-1254
- Global glacial chronologies and causes of glaciation. Calkin, P.E., et al., [1995,eng] 50-3582
- Greenland ice core records and rapid climate change. Dowdeswell, J.A., et al., [1995,eng] 50-5239
- Growth and decay of the Laurentide Ice Sheet and comparisons with Fennoscandia. Ives, J.D., et al., [1990,eng] 50-1787
- Ice age research. Liedtke, H., ed, [1990,eng] 50-1780
- Ice age terrestrial carbon changes revisited. Crowley, T.J., [1995,eng] 50-1148
- Ice ages and the Milankovitch theory: a study of interactive climate feedback mechanisms. Cess, R.D., et al., [1979,eng] 50-2976
- Ice sheet modeling and reconstruction. Hughes, T.J., [1995,eng] 50-3583
- Increasing CO₂, decreasing insolation, and initiation of ice sheets. Chu, S.P., [1994,eng] 50-671
- Past and present oceanic energy balance patterns. Newell, R.E., et al., [1989,eng] 50-5409
- Polythermal model of the antarctic ice sheet. Hansen, I., et al., [1996,eng] 50-6434
- Resolved: the Arctic controls global climate change. Alley, R.B., [1995,eng] 50-1167
- Rhythmic nature of the Pleistocene. Maksimov, E.V., [1972,eng] 50-542
- Role of North Atlantic margin uplift in Cenozoic glaciation. Eyles, N., [1996,eng] 50-3386
- Subglacial sediment deformation and rapid changes in the Laurentide Ice Sheet. Jensen, J.W., et al., [1996,eng] 50-5915
- Summer solstice solar radiation, the 100 kyr ice age cycle, and the next ice age. Ledley, T.S., [1995,eng] 50-1214
- What really ended the last ice age? Scientists say the oceans did it. [1992,eng] 50-720
- Ice air interface**
- Ablation of debris-covered ice at Burroughs Glacier. Syverton, K.M., et al., [1995,eng] 50-3739
- Analogous computer for solving growth problems of floating ice. Schwerdtfeger, P., [1964,eng] 50-4608
- Annual air-temperature measurement and ablation estimate at Moreno Glacier, Patagonia. Takeuchi, Y., et al., [1996,eng] 50-5512
- Arctic sea ice decreases related to wind variations. Maslanik, J.A., et al., [1996,eng] 50-6511
- Atmospheric circulation and sea ice extent in the west Antarctic Peninsula area. Harangozo, S.A., [1994,eng] 50-2992
- Atmospheric electricity and charge transfer from temperature gradients in ice. Latham, J., [1967,eng] 50-5786
- Atmospheric ice ablation processes on Mt. Equinox, Vermont. U.S.A. Ryerson, C.C., et al., [1996,eng] 50-5375
- Atmospheric surface pressure over the interior of Antarctica. Radok, U., et al., [1996,eng] 50-5678
- Automated wind tunnel measurements. Stumpf, P., et al., [1994,eng] 50-3689
- Case study of turbulent parameters during the antarctic winter. Yagüe, C., et al., [1995,eng] 50-1339
- Climate and ice-snow cover. Peng, G.B., et al., [1992,eng] 50-1168
- Computer model of glaze accretion on wires. Draganou, G., et al., [1996,eng] 50-5160
- Degree-day glacier mass balance modelling. Jóhannesson, T., et al., [1995,eng] 50-4455
- Description of the Martian polar cap breeze. Fernández, W., [1995,eng] 50-3671

Ice bearing capacity

Ice breakup

- Development of a regional climate model of the western Arctic. Lynch, A.H., et al. [1995,eng] 50-597
- Doppler electromagnetic analysis of ice cover gravity wave oscillations. Vdovichenko, S.P., [1996,eng] 50-5703
- Eolian dust in deep sea sediments from arctic pack ice. Pirman, S., et al. [1989,eng] 50-5408
- Estimates of Greenland atmospheric impurity variations during deglaciation. Alley, R.B., et al. [1995,eng] 50-1872
- Evaluating the effects of icing on wind turbines. Walsh, M., [1992,eng] 50-3636
- Heat flux over a melting Greenland ice sheet. Braithwaite, R.J., [1995,eng] 50-1877
- Ice shedding from cables. Druetz, J., et al. [1995,eng] 50-1144
- Ice-volume forcing of East Asian winter monsoon variations in the past 800,000 years. Ding, Z.L., et al. [1995,eng] 50-965
- Katabatic winds over an East Antarctic cirque. Jonsson, S., [1995,eng] 50-1338
- Lake ice and its remote sensing monitoring in the Tibetan Plateau. Chen, X.Z., et al. [1995,chi] 50-5634
- Liquid ice melting along a bundle of heated cylinders. Yamada, M., et al. [1996,eng] 50-4965
- Martian atmospheric carbon 14 as indicator of atmosphere-regolith gas exchange. Jakosky, B.M., et al. [1996,eng] 50-3009
- Mesoscale and microscale characteristics of a CASP II severe ice pellet storm. Hanesiak, J.M., [1994,eng] 50-4170
- Mineral dust record in a high altitude alpine glacier (Colle Gnifetti, Swiss Alps). Wagenbach, D., et al. [1989,eng] 50-5411
- Model of Greenland and antarctic ice sheet thickness variations. Verbitskii, M.I.A., et al. [1995,eng] 50-642
- Modelling of frost formation in rotary heat exchangers. Bildeau, S., et al. [1996,eng] 50-6477
- Numerical simulation of the Martian polar cap breeze. Fernandez, W., [1995,eng] 50-3672
- Observational study of the katabatic wind confluence zone near Siple Coast, West Antarctica. Bromwich, D.H., et al. [1996,eng] 50-4157
- Propagation of sound from a moving airborne source in an ice-covered ocean. Grudskii, S.M., et al. [1996,eng] 50-4626
- Radiative fluxes and their impact on the energy balance of the Greenland ice sheet. Konzelmann, T., et al. [1995,eng] 50-1871
- Recent progress in Vostok ice core analysis studies on ancient air stored in ice cores. Uchida, T., [1995,jpn] 50-992
- Recent responses of Chilean glaciers to climatic changes. Holmlund, P., et al. [1995,eng] 50-1868
- Refractive-index measurements of natural air-hydrate crystals in an antarctic ice sheet. Uchida, T., et al. [1995,eng] 50-977
- Relations between atmospheric circulation and glacier mass balance. McCabe, G.J., Jr., et al. [1995,eng] 50-3323
- Results of the studies of natural deformations of sea ice fields. Smirnov, V.N., et al. [1990,eng] 50-96
- Satellite radar survey of Japan Sea ice processes. Martin, S., et al. [1995,eng] 50-1810
- Seasonal nitrogen cycles on Pluto. Hansen, C.J., et al. [1996,eng] 50-4347
- Sensitivity of squall-line rear inflow to ice microphysics and environmental humidity. Yang, M.J., et al. [1995,eng] 50-1527
- Simulation and observation of ice formation (freeze-over) in a lake. Fang, X., et al. [1996,eng] 50-5466
- Small ice cap instability in the presence of fluctuations. Lee, W.H., et al. [1995,eng] 50-641
- Snow and ice cover and climate sensitivity. Oerlemans, J., et al. [1995,eng] 50-3246
- Some effects of conductor twisting on galloping. Richardson, A.S., Jr., [1980,eng] 50-3698
- Sound reflection from ice cover. Kudriashov, V.M., [1996,eng] 50-4627
- Structure of amphiphile monolayer adsorbed on ice Ih. Bell, K.P., et al. [1996,eng] 50-4023
- Summer air temperature in the nival-glacial belt of the Central Asian mountain massif. Lebedeva, I.M., [1993,rus] 50-4104
- Surface layers on ice. Knight, C.A., [1996,eng] 50-6058
- Temperature distribution in Collins Ice Cap. King George I. Han, J.K., et al. [1995,eng] 50-3615
- Turbine blade icing model. Finstad, K.J., et al. [1992,eng] 50-3628
- Turbulent transfer over an antarctic ice shelf. Vinje, T.E., [1969,eng] 50-3953
- Wind energy research in NEMO—research program. Petliola, E., [1992,eng] 50-3627
- Ice bearing capacity**
See [also]: Ice cover strength
- Ice blasting**
Blasting surface waste with ice. Ashley, S., [1995,eng] 50-1968
- Manual of ice protection. Sipos, B., ed. [1973,hun] 50-443
- Mitigation of ice jams. Burrell, B.C., [1995,eng] 50-790
- Ice bonded permafrost**
Intrapermafrost gas hydrates, Mackenzie Delta. Dallimore, S.R., et al. [1995,eng] 50-560
- Ice booms**
Countermeasures to prevent sea ice from intruding into Saroma Lagoon. Ishikawa, S., et al. [1996,jpn] 50-5890
- Design of ice booms. Poltyn, P.E., et al. [1996,eng] 50-6068
- Ice management in Lac St. Pierre. Carter, D., et al. [1995,eng] 50-4043
- Laboratory tests for ice interaction with steel booms. Timco, G.W., et al. [1996,eng] 50-5812
- River ice control and fish habitat restoration: mutual interests and benefits. Lever, J.H., et al. [1995,eng] 50-3121
- Structural ice control: review of existing methods. Tuthill, A.M., [1995,eng] 50-393
- What is an ice boom. Hokkaido Civil Engineering Research Institute. Fisheries Civil Engineering Laboratory (Suisan doboku kenkyushitsu), [1994,jpn] 50-2831
- Ice bottom surface**
Analysis of spatial reverberation statistics in the central Arctic. LePage, K., et al. [1996,eng] 50-5191
- AUV operations in the Arctic. Bellingham, J.G., et al. [1995,eng] 50-6307
- Distribution of sea-ice algae in Hudson Bay. Monti, D., et al. [1996,eng] 50-5211
- Evaluation of flow resistance in ice-covered channels. Braileanu, F., et al. [1996,eng] 50-6157
- Formation and morphology of ice stalactites observed under deforming lead ice. Perovich, D.K., et al. [1995,eng] 50-452
- Freshwater impact on Hudson Bay ecosystems under sea ice, pt.2. Legendre, L., et al. [1996,eng] 50-4020
- Heat transfer during a water jet impinging on the underside of ice. Bhanjali, A.P., [1994,eng] 50-678
- Ice effects on Mackenzie River hydraulics at the outlet of Great Slave Lake. Chen, X.B., [1993,eng] 50-377
- Internal and basal ice changes near the grounding line derived from radio-echo sounding. Uratsuka, S., et al. [1996,eng] 50-4895
- Measurements of the underside topography of sea ice by moored subsea sonar. Melling, H., et al. [1995,eng] 50-160
- Mechanisms of ice gouging. Kioka, S., et al. [1995,eng] 50-194
- Model of drag forces on sea ice bottom surfaces. Pite, H.D., et al. [1995,eng] 50-2740
- Occurrence of sub-ice algal aggregations off northeast Greenland. Gutt, J., [1995,eng] 50-163
- SARA, an autonomous underwater vehicle for researches in Antarctica. Papalia, B., et al. [1994,eng] 50-5181
- Sea ice induced gouging of the sea floor. Weeks, W.F., et al. [1995,eng] 50-6302
- Seasonal development of Beaufort Sea pack ice. Melling, H., et al. [1996,eng] 50-5857
- Study of the morphology of a discontinuous section of a first year arctic pressure ridge. Bowen, R.G., et al. [1996,eng] 50-3829
- Temporal evolution of under ice reflectivity. Laible, H.A., et al. [1996,eng] 50-4591
- Under cover transport and accumulation of frazil granules—discussion. Quo, Q.Z., et al. [1996,eng] 50-6337
- Upward flushing of sea water through first year sea ice. Hudier, E.J., et al. [1995,eng] 50-4210
- Ice breaking**
10 meter scale (macro-crack): scale effects on the fracturing of sea ice. Dempsey, J.P., et al. [1995,eng] 50-6298
- Abrasion mode of a circular cylindrical concrete structure due to sea ice movement. Itoh, Y., et al. [1995,eng] 50-191
- Acoustic and seismic studies of ice mechanics. Farmer, D., et al. [1995,eng] 50-6272
- Acoustic tomography of ice cracking and ridging. Rajan, S.D., [1995,eng] 50-6275
- Atmospheric ice ablation processes on Mt. Equinox, Vermont. U.S.A. Ryerson, C.C., et al. [1996,eng] 50-5375
- Breakthrough loads of floating ice sheets: small-scale tests with urea model ice. Sodhi, D.S., [1995,eng] 50-2939
- Comparison of glaze and in-cloud icing events on a test line. Druetz, J., et al. [1995,eng] 50-2951
- Compressive failure of columnar saline ice under multiaxial loading. Schulson, E.M., [1995,eng] 50-6282
- Computational modelling of brittle ice fragmentation. Tuhkur, J., [1996,eng] 50-5942
- Conductivity effects on electromagnetic emissions (EME) from ice fracture. O'Keefe, S.G., et al. [1996,eng] 50-4221
- Constitutive equations and fracture models for sea ice. Rodin, G.J., et al. [1995,eng] 50-6292
- Correction to paper by Schulson and Nickolayev. Schulson, E.M., et al. [1996,eng] 50-4361
- Crack nucleation mechanisms in columnar ice—recent developments. Gupta, V., et al. [1995,eng] 50-6281
- Deformation and failure of an ice cover at an ice-resistant structure. Danilenko, V.I., et al. [1995,eng] 50-2938
- Device for pushing broken ice ahead of a ship or the like. Donderi, D.C., [1990,eng] 50-2241
- Effect of size on distributed damage and fracture of sea ice. Bazant, Z.P., et al. [1995,eng] 50-6278
- Experimental study of tearing toughness K_{IIC} for fresh water ice. Li, G.W., et al. [1995,eng] 50-2974
- Flashover between power lines caused by ice shedding. Savadiev, K., et al. [1996,eng] 50-5386
- Ice breaking device for an offshore platform. Mishin, V.N., et al. [1992,rus] 50-1949
- Ice impact tests on Nathaniel B. Palmer. St. John, J.W., et al. [1995,eng] 50-860
- Ice loads on fixed and floating structures: panel report. Croasdale, K.R., et al. [1995,eng] 50-6300
- Ice shedding from cables. Druetz, J., et al. [1995,eng] 50-1144
- Ice zipper. Tetrauli, M., [1987,eng] 50-2240
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995,eng] 50-195
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995,eng] 50-2942
- Ice-structure interaction under slippage boundary conditions. Matskevich, D.G., [1995,eng] 50-2936
- Jet-cutting as an ice-breaking aid. Preliminary report on field tests for U.S. Coast Guard. Mellor, M., et al. [1973,eng] 50-3762
- Local pressure characteristics by indenter with segmented local ice pressure panels. Kamesaki, K., et al. [1996,jpn] 50-5876
- Measurements of crack velocity in sea ice using electromagnetic techniques. Petrenko, V.F., et al. [1995,eng] 50-6291
- Mechanical ice cutter on the Mississippi River. Ashton, G.D., [1973,eng] 50-3954
- Mechanics of marine screw propeller ice cutting processes. Veitch, B., [1995,eng] 50-4154
- Microstructure and mechanical properties of some small impact ice accretions. Hammond, D.W., [1996,eng] 50-5339
- Modelling of continuous crushing of ice in front of offshore structures. Brown, T.G., et al. [1995,eng] 50-575
- Models of ice-structure contact for engineering applications. Riska, K., [1995,eng] 50-3808
- On dynamics of ice-structure interaction. Kajaste-Rudnitski, J., [1995,eng] 50-4169
- Physically-based constitutive modeling of ice: damage and failure. Wu, M.S., et al. [1995,eng] 50-6293
- Possible high ice particle production during graupel-graupel collisions. Takahashi, T., et al. [1995,eng] 50-3005
- Preliminary results of ice-aluminum interfacial fracture toughness testing. Whelan, A.E., et al. [1995,eng] 50-2959
- Proceedings. Volume IV. Arctic/polar technology. International Conference on Offshore Mechanics and Arctic Engineering (OMAE), 14th. Copenhagen, Denmark, June 18-22, 1995. [1995,eng] 50-2935
- Proceedings. Sea Ice Mechanics and Arctic Modeling Workshop. Anchorage, AK, Apr. 25-28, 1995. [1995,eng] 50-6271
- Project III.11.1: New concepts in removing ice. Ierusalimskii, A.V., [1996,eng] 50-4447
- Scale effects on the fracture and constitutive behavior of sea ice. Dempsey, J.P., et al. [1995,eng] 50-6279
- Sea ice failure mechanisms. Pritchard, R.S., [1995,eng] 50-6274
- Sea Ice Mechanics Initiative (SIMI) geophone/hydrophone system. Stein, P.J., et al. [1995,eng] 50-6277
- Sea Ice Mechanics Initiative (SIMI) summary plan, FY94-95. [1995,eng] 50-6294
- Sea ice mechanics related to thermally-induced stresses and fracturing in pack ice. Lewis, J.K., et al. [1995,eng] 50-6290
- Seismo-acoustic remote sensing of ice-mechanical processes in the Arctic. Schmidt, H., et al. [1995,eng] 50-6276
- SIMI (Sea Ice Mechanics Initiative) panel on the 1cm-1m scale. Schulson, E.M., et al. [1995,eng] 50-6299
- Singularities in simulation of ice sheet-solid impact regime. Darr, D.G., et al. [1995,eng] 50-2163
- Small airline continues to win big battle against aircraft ground icing. [1992,eng] 50-3574
- Spaceborne radar imagery for ice reporting in the Baltic Sea. Hakansson, B., et al. [1995,eng] 50-1821
- Statistics of ice-structure interaction. Kajaste-Rudnitski, J., [1995,eng] 50-199
- Study of dynamic effects on icebreaking in 2-dimension: computations and components of icebreaking load. Yamaguchi, H., et al. [1996,eng] 50-4469
- Study of dynamic effects on icebreaking in 2-dimension: experiment. Usami, A., et al. [1996,eng] 50-4468
- Thickness and fracture toughness of freshwater ice. Chang, C., et al. [1995,eng] 50-2975
- Triaxial tests on crushed ice. Singh, S.K., et al. [1996,eng] 50-5468
- Variation of local pressures during ice-structure interaction. Johnston, M., [1994,eng] 50-376
- Velocity dependence of ice failure load in a 2-dimensional ship model. Adachi, M., et al. [1996,eng] 50-5878
- See [also]: Ice cutting; Icebreakers
- Ice breakup**
1991 ice jamming along the Saint John River: a case study. Beltaos, S., et al. [1996,eng] 50-5809
- Calculation of the strength of the ice cover during breakup of rivers. Ginzburg, B.M., et al. [1995,eng] 50-351
- Comments and reply on paper of Venkatesh et al. Marko, J.R., et al. [1995,eng] 50-601
- Comparisons between the Okhotsk Sea and the Baltic Sea ice. Shirasawa, K., et al. [1996,eng] 50-5904
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1995,eng] 50-4247
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1996,eng] 50-5810
- Dynamics of river ice jam release. Shen, H.T., et al. [1996,eng] 50-6156
- Effect of river-ice break-up on suspended sediment and select trace-element fluxes. Milburn, D., et al. [1994,eng] 50-5698
- Freshwater impact on Hudson Bay ecosystems under sea ice, pt.1. Ingram, R.G., et al. [1996,eng] 50-4019
- Ice force and scour instrumentation for the White River, Vermont. Zabilansky, L.J., [1996,eng] 50-6073
- Ice jam flooding and mitigation: Lower Platte River basin, Nebraska. White, K.D., et al. [1996,eng] 50-4251
- Ice shelf breakup. Fahnestock, M., [1996,eng] 50-3490
- Ice thickness data, winter 1992-1993. [1995,eng] 50-985
- Ice thickness data, winter 1993-1994. Final issue. [1996,eng] 50-3711
- Ice-thermal regime at front deltas of rivers of the Laptev Sea. Nalimov, I.U.V., [1995,eng] 50-2070

Ice caps

- Labrador Sea atmospheric circulation/sea-ice anomalies. Newell, J.P., [1996,eng] 50-6227
- Manual of ice protection. Sipos, B., ed. [1973,hun] 50-443
- Mechanics of ice strength and breakup when erecting ice structures in the Arctic. Krasnov, I.U.N., [1989,rus] 50-2254
- Method of calculating the breakup of ice cover. Khvedynich, S.V., [1992,rus] 50-1265
- New, low-cost ice control structure. Part 1: concept development. Lever, J.H., et al. [1996,eng] 50-6158
- New, low-cost ice control structure. Part 2: construction and performance. Lever, J.H., et al. [1996,eng] 50-6159
- Open-water and ice-jam flooding of a northern delta. Prowse, T.D., et al. [1994,eng] 50-5699
- Partial disintegration of antarctic ice. Simões, J.C., [1995,por] 50-3936
- Probability distributions for peak stage on rivers affected by ice jams. Tuthill, A.M., et al. [1996,eng] 50-4754
- Rapid climatic shifts during isotope stages 2-4 in the polar North Atlantic. Dokken, T.M., et al. [1996,eng] 50-6105
- Rapid collapse of northern Larsen Ice Shelf, Antarctica. Ron, H., et al. [1996,eng] 50-2571
- Recent retreat of ice shelves on the Antarctic Peninsula. Vaughn, D., et al. [1995,eng] 50-2155
- River ice motion detector. Zufelt, J.E., et al. [1995,eng] 50-889
- River ice processes. Prowse, T.D., [1995,eng] 50-785
- River-coastal sea ice interaction model: Mackenzie River Delta. Searcy, C., et al. [1996,eng] 50-5265
- Satellite observation of lake ice as a climate indicator. Wynne, R.H., et al. [1993,eng] 50-2862
- Seismic activity of landfast ice. Nikitin, V.A., et al. [1995,eng] 50-188
- Structural ice control: review of existing methods. Tuthill, A.M., [1995,eng] 50-393
- Theory of ice jams. Beliaos, S., [1995,eng] 50-787
- Three-dimensional simulation of river ice jams. Hopkins, M.A., et al. [1996,eng] 50-6155

Ice caps

See [also]: Ice sheets

Ice caves

- Cryogenic phenomena in the lithosphere. Gavrilov, A.V., et al. [1996,rus] 50-6352
- Englacial drainage influence on sediment transport pathways. Kirkbride, M., et al. [1996,eng] 50-6255
- Internal drainage of the Werenskiöld and Torell glaciers, 1988. Řehák, J., et al. [1989,cze] 50-2920

Ice chemistry

See [also]: Ice composition

Ice composition

- "Ice Mountain"—a Pleistocene relict in the north of West Siberia. Rajamäe, R., et al. [1989,eng] 50-2897
- ¹³C and ¹⁵N uptake by phytoplankton in the marginal ice zone of the Bellingshausen Sea. Bury, S.J., et al. [1995,eng] 50-1028
- Application of AMS ¹⁴C dating to ice core research. Wilson, A.T., [1995,eng] 50-5246
- Aromatic hydrocarbons in Greenland ice and atmosphere. Masclet, P., et al. [1995,eng] 50-2572
- Bacterial activity in the Schirmacher Ponds in summer. Ramani, N., [1995,eng] 50-1281
- Basal debris entrainment of Canadian arctic glaciers. Zdanowicz, C.M., et al. [1996,eng] 50-6247
- Basal ice facies and their formation in the western Alps. Hubbard, B., et al. [1995,eng] 50-2805
- Biogenic hydrocarbons in particulate material of the Bellingshausen Sea marginal ice zone. Cripps, G.C., [1995,eng] 50-1025
- Carbon acquisition and growth of antarctic sea ice diatoms in closed bottle incubations. Gleitz, M., et al. [1996,eng] 50-5455
- Cations within glacier ice, snow and river water at Xidatan coal mine. Huang, C.L., et al. [1995,chi] 50-5641
- Challenging an ice-core paleothermometer. MacAyeal, D.R., [1995,eng] 50-628
- Characteristics of basal ice at Engabreen, northern Norway. Jansson, P., et al. [1996,eng] 50-6248
- Chemistry of meltwater from Mount Xixia Bangma. Zhang, S., et al. [1982,chi] 50-6601
- Chemistry of water and ice from Drake Passage and the Bellingshausen Sea. Turner, S.M., et al. [1995,eng] 50-1024
- Chlorophyll *a*, suspended organic carbon and silicon in the sea ice of Admiralty Bay. Melnikov, I.A., [1993,rus] 50-920
- Climate change during the last deglaciation in Antarctica. Mayewski, P.A., et al. [1996,eng] 50-5067
- Comparison between capillary ion analysis and ion chromatography in ice and snow. Liu, L.B., et al. [1996,chi] 50-5680
- Conditions of the occurrence and structure of layered deposits of ground ice. Koreisha, M.M., et al. [1983,rus] 50-313
- Correction for *in-situ* ¹⁴C in antarctic ice with ¹⁴CO. Van Roijen, J., et al. [1995,eng] 50-5245
- Cosmic dust particles in ice and snow, and their origin. Wang, D.D., et al. [1995,eng] 50-3614
- Cryovolcanism on the icy satellites. Kargel, J.S., [1994,eng] 50-1860
- Deep ice stirs debate on climate stability. Monastersky, R., [1993,eng] 50-4800
- Dielectric response of ice growth from dilute sulfate solutions. Gross, G.W., et al. [1994,eng] 50-1896
- Dissolved organic matter in arctic sea ice. Thomas, D.N., et al. [1995,eng] 50-717

- Dust in glaciers around Taklimakan Desert. Han, J.K., et al. [1995,eng] 50-615
- Enrichment of CO over N₂ by their trapping in amorphous ice and implications to comet P/Halley. Nosesco, G., et al. [1996,eng] 50-5834
- Eolian dust in deep sea sediments from arctic pack ice. Pirman, S., et al. [1989,eng] 50-5408
- Fatty acid adaptation in an antarctic bacterium—changes in primer utilization. Nichols, D.S., et al. [1996,eng] 50-4797
- Feasibility of infrared sensing of Martian cloud and surface ices. Johnson, B.R., et al. [1996,eng] 50-3865
- Flux and fluence of major solar proton events and their record in antarctic snow. Shea, M.A., et al. [1994,eng] 50-4622
- Freezing point depression by common salts: implications for corrosion in cold climates. Brass, G.W., [1996,eng] 50-5951
- Geochemical studies of layered ground ice and frozen rocks (from work on Ney-To Lake). Dubikov, G.I., [1983,rus] 50-312
- Geochemistry of volcanic ash in the ice near Brimstone Peak. Faure, G., et al. [1994,eng] 50-1885
- Glacial ice fragments in antarctic sea ice. Haas, C., et al. [1995,eng] 50-464
- Greenland ice core records and rapid climate change. Dowdeswell, J.A., et al. [1995,eng] 50-5239
- High resolution study of the platelet ice ecosystem in McMurdo Sound. Arrigo, K.R., et al. [1995,eng] 50-2522
- High-resolution mass spectrometry for ice core trace element determination. Shimamura, T., et al. [1995,eng] 50-2576
- Ice complex and greenhouse gases. Kunitiskii, V.V., [1996,rus] 50-6380
- Ice core records for analyzing desertification. Nakawo, M., et al. [1995,eng] 50-614
- Instruments for coring, structure and composition analysis and monitoring sea ice. Zagorodnov, V.S., et al. [1995,eng] 50-6317
- Internal melt figures in Japanese pond ice and microparticles in antarctic ice cores. Higashi, A., [1996,jpn] 50-4931
- Isotope composition of the ice and subglacial geology near the Allan Hills. Faure, G., et al. [1993,eng] 50-6319
- Japanese glaciological environmental studies in the arctic cryosphere. Watanabe, O., [1995,jpn] 50-3507
- Landform and sediment associations of dry-based glaciers in arid polar environments. Humphreys, K.A., et al. [1996,eng] 50-6577
- Leakage resistance of iced insulators and chemical data of ice and snow. Sugawara, N., et al. [1996,eng] 50-5384
- Linear least squares method for time series analysis. Khalil, M.A.K., et al. [1995,eng] 50-2388
- Microbial sea ice ecology at a coastal antarctic site. Archer, S.D., et al. [1996,eng] 50-5456
- Migration of chemical elements and ions in the seasonal thaw layer and upper layer of perennially frozen rocks. Leibman, M.O., et al. [1996,rus] 50-6848
- Mineral dust record in a high altitude alpine glacier (Colle Gnifetti, Swiss Alps). Wagenbach, D., et al. [1989,eng] 50-5411
- New device for the measurement of air content in polar ice. Lipenkov, V.I.A., et al. [1995,eng] 50-462
- New results from studies of layered ground ice in Yamal. Dubikov, G.I., et al. [1985,rus] 50-242
- New simple route to the synthesis of protease substrates in ice. Ullmann, D., et al. [1996,eng] 50-6713
- No iridium anomaly after the 1908 Tunguska impact: evidence from a Greenland ice core. Rasmussen, K.L., et al. [1995,eng] 50-2741
- Nutrients in the Aral Sea in winter. Tsytsarin, A.G., [1995,eng] 50-5481
- O₂ on Ganymede: spectral characteristics and plasma formation mechanisms. Calvin, W.M., et al. [1996,eng] 50-4256
- Observations of the grounding-line area at a floating glacier terminus. Powell, R.D., et al. [1996,eng] 50-6264
- On the concentrations of O₂, N₂, and Ar in trapped gases from ice cores. Bender, M., et al. [1995,eng] 50-633
- On the sedimentological character of alpine basal ice facies. Hubbard, B., et al. [1996,eng] 50-6259
- Organic compounds produced by photolysis of simulated cometary ices. Bernstein, M.P., et al. [1995,eng] 50-2724
- Origin of salt in lakes and ponds of the McMurdo Dry Valleys. Takamatsu, N., et al. [1995,eng] 50-3697
- Paleoclimate of the Taklimakan Desert from glacier ice cores. Nakawo, M., [1991,jpn] 50-1424
- Processes affecting the CO₂ concentrations measured in Greenland ice. Ankin, M., et al. [1995,eng] 50-975
- Production and chemical analysis of cometary ice tholins. McDonald, G.D., et al. [1996,eng] 50-5833
- Recent progress in Vostok ice core analysis studies on ancient air stored in ice cores. Uchida, T., [1995,jpn] 50-992
- Recent progress in Vostok ice core analysis: paleoclimate and paleoenvironment. Osada, K., [1995,jpn] 50-1000
- Reinforcement percentage effects on bending strength of soil-ice mixtures. Nixon, W.A., et al. [1995,eng] 50-358
- Relevance of glacial bed debris to glacial mechanics. Gow, A.J., et al. [1996,eng] 50-6251
- Salinity tolerance of planktonic foraminifers in sea ice. Spindler, M., [1996,eng] 50-6035
- Simulation of extraterrestrial ice radiation absorption properties. Schutte, W.A., et al. [1995,eng] 50-3023
- Spectra of nitrogen component of ices in cosmic dust. Whittet, D.C.B., et al. [1996,eng] 50-6210
- Spectroscopy of ices in quiescent cosmic dust clouds. Chiar, J.E., et al. [1995,eng] 50-2779

- Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savel'ev, B.A., [1963,rus] 50-3832
- Study of brash ice in the proximal marine zone of a sub-polar tidewater glacier. Smith, N.D., et al. [1996,eng] 50-6224
- Subglacial ice accretion in an Alaskan glacier. Strasser, J.C., et al. [1996,eng] 50-6250
- Technogenic naled formation around the city of Anadyr'. Kotov, A.N., [1996,rus] 50-6854
- Tritium analysis of ground ice: results and prospects. Chizhov, A.B., et al. [1996,rus] 50-6385
- Uptake of methanesulfonate and sulfate in ice. Whung, P.Y., et al. [1994,eng] 50-1895
- Water column and sea-ice primary production during Austral spring in the Bellingshausen Sea. Boyd, P.W., et al. [1995,eng] 50-1027
- Younger Dryas as viewed through the Summit Greenland ice cores. Mayewski, P.A., [1994,eng] 50-5301

Ice conditions

- Abstracts. International Symposium on Okhotsk Sea and Sea Ice, 11th, Mombetsu, Hokkaido, Japan, Feb. 25-28, 1996. [1996,eng] 50-5872
- Arctic Pilot Project integrated route analysis. Chapter 2. Physical aspects of the route areas. [1981,eng] 50-3558
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Calculating complex effects of pipeline icing. Popov, I.U.A., et al. [1995,rus] 50-3441
- Can the Northern Sea Route be profitable. Schwarz, J., [1996,eng] 50-4490
- Case study: freeze-up and jamming on the Peace River at Peace River. Andres, D.D., [1995,eng] 50-792
- Challenges for the development of hydrocarbon fields in the Barents Sea. Gudmestad, O.T., et al. [1995,eng] 50-209
- Changes in climate and ice distribution in the Northern Hemisphere since the maximum of the last glaciation. Chizhov, O.P., [1972,rus] 50-541
- Common features of the Upper Quaternary and historical glaciation in the Caucasus and Tien Shan. Gerasimov, V.A., [1972,rus] 50-543
- Comparison of second-order classifiers for SAR sea ice discrimination. Barber, D.G., et al. [1993,eng] 50-1446
- Comparisons between the Okhotsk Sea and the Baltic Sea ice. Shirasawa, K., et al. [1996,eng] 50-5904
- Correlation of glacial episodes in Poland and Scandinavia. Lindner, L., et al. [1995,eng] 50-2611
- Decrease in the equilibrium line of glaciers in the European Arctic during the Pleistocene. Grosval'd, M.G., et al. [1972,rus] 50-540
- Detecting new-ice in the arctic from multispectral satellite data. Martin, T., et al. [1992,eng] 50-224
- Detection of radar targets in sea-ice clutter. Lin, C.P., et al. [1996,eng] 50-5895
- Development of a Baltic Sea ice climate model. Leppäranta, M., et al. [1994,eng] 50-3202
- Experimental voyage through Northern Sea Route. Yamaguchi, H., [1996,eng] 50-4425
- Field observations and measurements of ice jams. Petryk, S., et al. [1995,eng] 50-791
- Fuzzy classification of earth terrain covers using complex polarimetric SAR data. Du, L., et al. [1996,eng] 50-4018
- Great Lakes ice cover studies. U.S. National Oceanic and Atmospheric Administration. Great Lakes Environmental Research Laboratory (GLERL), Ann Arbor, MI, [1995,eng] 50-2479
- Ice conditions along the North-East Passage in view of ship trafficability studies. Riska, K., [1995,eng] 50-198
- Ice conditions and navigability of the NSR-vessels: present and future. Schwarz, J., [1996,eng] 50-4491
- Ice conditions in the Greenland waters, 1957.[1967,eng] 50-1231
- Ice conditions in the Greenland waters, 1958.[1967,eng] 50-1232
- Ice conditions in the Greenland waters, 1959.[1968,eng] 50-1233
- Ice conditions in the Greenland waters, 1960.[1964,eng] 50-1234
- Ice conditions in the Greenland waters, 1961.[1965,eng] 50-1235
- Ice conditions in the Greenland waters, 1962.[1968,eng] 50-1124
- Ice conditions in the Greenland waters, 1963.[1970,eng] 50-1125
- Ice conditions in the Greenland waters, 1964.[1971,eng] 50-1236
- Ice conditions in the Greenland waters, 1966.[1981,eng] 50-1257
- Ice conditions in the Greenland waters, 1968.[1983,eng] 50-1258
- Ice conditions in the Greenland waters, 1974.[1985,eng] 50-1259
- Ice conditions in the Greenland waters, 1975.[1982,eng] 50-1260
- Ice conditions in the Greenland waters, 1976.[1982,eng] 50-1126
- Ice conditions in the Greenland waters, 1977.[1983,eng] 50-1127
- Ice conditions in the Greenland waters, 1978.[1985,eng] 50-1128
- Ice conditions in the Greenland waters, 1979.[1985,eng] 50-1129
- Ice conditions in Zalew Szczecinski (Stettiner Haff) during the winter 1994/95. Schmelzer, N., et al. [1995,eng] 50-4536

Ice control

- Ice conditions off Greenland. Fabricius, J.S., et al. [1959,dan] 50-406
- Ice dynamics in the south-western Laptev Sea as derived from ERS-1 SAR images. Kolatschek, J., et al. [1995,eng] 50-2063
- Ice jam flooding on the Missouri River near Williston, North Dakota. Wuebben, J.L., et al. [1995,eng] 50-2707
- Ice jam processes. Beltaos, S., [1995,eng] 50-786
- Ice protection for water intakes of the Perry Nuclear Power Plant. Wahanik, R.J., et al. [1976,eng] 50-884
- Ice-thermal regime at front deltas of rivers of the Laptev Sea. Nalimov, I.U.V., [1995,eng] 50-2070
- ICESTAR: a spaceborne ice and coastal environment surveillance system. Cavalieri, D.J., et al. [1996,eng] 50-4482
- Influence of ice conditions on NSR transit sailing. Vefsnmo, S., et al. [1996,eng] 50-4459
- Interannual variability of the ice cover in the Chukchi and Beaufort Seas. Chouinard, L.E., et al. [1995,eng] 50-187
- Intrasectoral changes in ice conditions and conditions for ice navigation in the 20th century. Zakharov, V., et al. [1996,eng] 50-4481
- Lake ice and its remote sensing monitoring in the Tibetan Plateau. Chen, X.Z., et al. [1995,chi] 50-5634
- MANICE. Manual of standard procedures for observing and reporting ice conditions. 8th edition. Canada. Atmospheric Environment Service. Ice Services Branch, [1994,eng] 50-409
- Meteorological support for navigation along the Northern Sea Route. Kondrat'ev, K.I.A., et al. [1994,eng] 50-648
- Method of calculating the breakup of ice cover. Khvedynich, S.V., [1992,rus] 50-1265
- Modeling the effects of climate change on lakes. Frisk, T., et al. [1994,eng] 50-3198
- Modeling the influence of ice on sea level variations in the Baltic Sea. Zhang, Z.H., et al. [1995,eng] 50-6758
- Monitoring and modelling the ice conditions offshore Greenland. Valeur, H.H., et al. [1995,eng] 50-2971
- Multisensor observations of winter sea ice in the Greenland Sea. Toudal, L., [1994,eng] 50-1514
- Northern Sea Route: its development and evolving state of operations in the 1990s. Mulhern, N.D., [1996,eng] 50-4960
- Nuclear submarines and oceanography in the Arctic. DeLaca, T., et al. [1996,eng] 50-3931
- Numerical modelling of ice jams. Petryk, S., [1995,eng] 50-788
- Numerical prediction of sea surges and ice conditions on the Laptev and East-Siberian Sea. Ashik, I.M., [1995,eng] 50-2069
- Observation of momentum and heat transfers between ocean and atmosphere in the Chukchi Sea. Sasaki, Y., et al. [1996,eng] 50-4479
- Observations on a plug of old sea ice in the entrance to Nansen Sound, Ellesmere Island. Sadler, H.E., et al. [1981,eng] 50-46
- Ocean Drilling Program in Fram Strait and prediction of ice-free conditions. Wadhams, P., et al. [1995,eng] 50-215
- Oceanic remote sensing and sea ice monitoring. Johannessen, J.A., ed. et al. [1994,eng] 50-1509
- Operational use of ERS-1 SAR images in the Canadian ice monitoring programme. Shokr, M.E., et al. [1996,eng] 50-4017
- Polar sea ice off West Greenland—a review. Fabricius, J.S., et al. [1995,eng] 50-2972
- Preliminary application of Canadian ice regime system to the Northern Sea Route. Jones, S.J., et al. [1996,eng] 50-4429
- Proceedings. Vol.2. International Offshore and Polar Engineering Conference, 5th, Hague, Netherlands, June 11-16, 1995. [1995,eng] 50-175
- Project I: natural conditions and ice navigation. Løvås, S.M., [1996,eng] 50-4434
- Reconstruction of the ice winter severity since 1701 in the western Baltic. Koslowski, G., et al. [1995,eng] 50-1957
- Remote sensing for global change, climate change and atmosphere & ocean forecasting. European "International Space Year" Conference, Munich, Germany, 30 March-4 April 1992. [1992,eng] 50-219
- Remote sensing of arctic sea ice using the ERS-1 SAR. Askne, J., et al. [1992,eng] 50-223
- Remote sensing of sea ice by passive microwave radiometer. Enomoto, H., [1996,jpn] 50-3506
- Report of the International Ice Patrol in the North Atlantic, 1994 season. U.S. Coast Guard, [1994,eng] 50-52
- Research concerning ice conditions in fairways—Swedish activities. Lindmark, R., et al. [1984,eng] 50-3165
- Research of the ice climatology of the Baltic Sea. Leppäranta, M., et al. [1996,eng] 50-5905
- Research on cold region river. Yamashita, S., [1994,jpn] 50-2832
- Review of modelling the thermodynamics of floating ice. Savage, S.B., et al. [1996,eng] 50-6488
- Rhythmic nature of the Pleistocene. Maksimov, E.V., [1972,rus] 50-542
- River ice jams. Beltaos, S., ed. [1995,eng] 50-783
- Satellite remote sensing of the Arctic Ocean and adjacent seas. Comiso, J.C., [1995,eng] 50-1160
- Satellite remote sensing tools for sea ice engineering. Cavanié, A., et al. [1995,eng] 50-184
- Sea ice concentrations derived from SMMR and SSM/I. Björge, E., et al. [1994,eng] 50-1513
- Sea ice detection at Showa Station from MOS-1 mosaics. Ishida, K., et al. [1996,jpn] 50-5892

- Sea ice in the global climate system: requirements for an ocean observing system. Allison, I., et al. [1995,eng] 50-4248
- Sea ice off the Icelandic coasts, October 1987-September 1988. [1988,ice] 50-3556
- Sea ice off the Icelandic coasts, October 1988-September 1989. [1990,ice] 50-3557
- Sea ice radar backscatter and the fusion of active and passive microwave data. Beaven, S.G., [1995,eng] 50-4171
- Seasonal variability of sea ice sizes and thickness on the northern Sakhalin shelf. Polomoshnov, A.M., et al. [1995,eng] 50-189
- Shipboard observations of ice conditions off the Okhotsk Sea coast. Shimoda, H., et al. [1996,jpn] 50-5898
- Short term variations of sea ice cover. Chouinard, L.E., et al. [1995,eng] 50-186
- Simulation of ship transit for Baltic ice conditions. La Prairie, D., et al. [1995,eng] 50-4583
- Spaceborne radar imagery for ice reporting in the Baltic Sea. Hakansson, B., et al. [1995,eng] 50-1821
- Specialized ice information for planning sea operations along the NSR. Brovin, A.I., et al. [1996,eng] 50-4428
- SSM/I time series observations of Great Lakes ice and snow. Pilant, D., [1995,eng] 50-3107
- Steering Group for the Global Digital Sea-ice Data Bank. Fourth session. Final report. Commission for Marine Meteorology, [1994,eng] 50-6075
- Studies on the method of image processing and analysis of lake ice and snow. Li, W.J., et al. [1995,chi] 50-3995
- Universal multifractal scaling of synthetic aperture radar images of sea-ice. Falco, T., et al. [1996,eng] 50-5585
- Use of ERS-1 SAR data in numerical sea ice modeling. Leppäranta, M., et al. [1992,eng] 50-222
- Validation and evaluation of a workstation for monitoring sea ice. McIntyre, N., et al. [1994,eng] 50-1515
- Variability of arctic sea ice along the Northern Sea Route. Ono, N., [1996,eng] 50-4477
- What is an ice boom. Hokkaido Civil Engineering Research Institute. Fisheries Civil Engineering Laboratory (Suisan doboku kenkyushitsu), [1994,jpn] 50-2831
- Wind events compared with polynya area estimates derived from SSM/I data. Markus, T., et al. [1993,eng] 50-5596
- WinOil: an oil spill model for Windows 95. McGillivray, D.G., et al. [1996,eng] 50-5555
- Winter 1994 weather and ice conditions for the Laurentian Great Lakes. Assel, R.A., et al. [1996,eng] 50-3294
- World of snow and ice. Kotliakov, V.M., [1994,rus] 50-1420
- See [also]: Sea ice distribution
- Ice control**
- Algorithm for optimizing road salting routes. Li, L.Y.O., et al. [1996,eng] 50-4011
- Anemometer for transmission line maintenance in heavy icing areas. Ozawa, A., et al. [1996,eng] 50-5395
- Assessment of the use of deicing salts. Breitenstein, J., [1996,ger] 50-3617
- Augmentation or suppression of ice accumulation on a cold flat-plate in water-flow channel. Hirata, T., et al. [1996,eng] 50-6462
- Bubblers for ice melting. [1996,eng] 50-4182
- Case history of a lined wastewater treatment lagoon failure. Merrill, K.S., et al. [1996,eng] 50-6150
- Cold weather operations. [1983,eng] 50-3792
- Confirming airworthiness prior to takeoff in icing conditions—pilot options. Eloranta, J.T., [1992,eng] 50-3798
- Construction of the Okhotsk frozen-sea observation tower. Sato, Y., et al. [1996,jpn] 50-5873
- Countermeasure for ice floes overtopping over breakwater due to wave action. Sasajima, T., et al. [1996,jpn] 50-5883
- Countermeasures to prevent sea ice from intruding into Saroma Lagoon. Ishikawa, S., et al. [1996,jpn] 50-5890
- County improves its snow and ice control program. da Cunha, M., [1996,eng] 50-6101
- Design of ice booms. Foltyn, E.P., et al. [1996,eng] 50-6068
- Dusting river ice with leaf mulch to aid in ice deterioration. Hachnel, R.B., et al. [1996,eng] 50-6072
- Fixing frozen leaks in a dam in Hokkaido. Takada, K., et al. [1995,jpn] 50-6738
- How to battle snow and ice. Askew, D., [1995,eng] 50-3858
- Ice free fire escapes. [1991,eng] 50-4379
- Ice jam flooding on the Missouri River near Williston, North Dakota. Wuebben, J.L., et al. [1995,eng] 50-2707
- Ice jamming in upper Niagara River: processes and plan of study. Crisman, R.D., et al. [1995,eng] 50-362
- Ice management in Lac St. Pierre. Carter, D., et al. [1995,eng] 50-4043
- Ice problems in planning and operation of hydro power plants. Sharma, H.R., [1993,eng] 50-235
- Ice protection for water intakes of the Perry Nuclear Power Plant. Wahanik, R.J., et al. [1976,eng] 50-884
- Icing degrades aircraft performance: fluids provide best defense against ice on the ground. [1992,eng] 50-3575
- Indiana streamlines permitting and ice/snow removal. Pittman, R., [1996,eng] 50-3495
- Inflight icing: certification vs. reality. Steenblik, J.W., [1995,eng] 50-1962
- Iowa tests anti-icing strategies. [1995,eng] 50-1557
- Laboratory tests for ice interaction with steel booms. Timco, G.W., et al. [1996,eng] 50-5812
- Manual for highway winter anti-icing practices. Ketcham, S.A., et al. [1996,eng] 50-6060
- Mechanical ice cutter on the Mississippi River. Ashton, G.D., [1973,eng] 50-3954

Ice cores

- Mitigation of ice jams. Burrell, B.C., [1995,eng] 50-790
- New deicing tactics: prewet with salt brine. [1996,eng] 50-3454
- New salting methods on UK highways. Cruickshank, J., [1996,eng] 50-4366
- New U.S. rules established for aircraft ground deicing and anti-icing. [1992,eng] 50-3576
- New, low-cost ice control structure. Part 1: concept development. Lever, J.H., et al. [1996,eng] 50-6158
- New, low-cost ice control structure. Part 2: construction and performance. Lever, J.H., et al. [1996,eng] 50-6159
- On deflecting drifting icebergs. Riebel, I.R., et al. [1995,eng] 50-2945
- Predicting abrasion of bridge piers by ice. Hara, F., et al. [1995,eng] 50-2655
- Preliminary study of melting snow and river ice by dusting using leaf mulch. Hachnel, R.B., et al. [1995,eng] 50-3120
- Private companies subcontract to CRREL. Chalmers, P., [1995,eng] 50-1099
- Production of high-strength concrete for the Hibernia offshore concrete platform. Hoff, G.C., et al. [1994,eng] 50-2764
- Quantification of the reliability of iceberg management off eastern Canada. Goodridge, D.N., et al. [1995,eng] 50-2947
- Research concerning ice conditions in fairways—Swedish activities. Lindmark, R., et al. [1984,eng] 50-3165
- Results of black ice inhibiting filler use on asphalt test sections. Arand, W., [1995,ger] 50-2841
- River ice control and fish habitat restoration: mutual interests and benefits. Lever, J.H., et al. [1995,eng] 50-3121
- Rotatable shortwave curtain antenna operable at very high wind speeds. Bruger, P., et al. [1996,eng] 50-6621
- Small airline continues to win big battle against aircraft ground icing. [1992,eng] 50-3574
- Snow and ice control in North America. Perry, A.H., et al. [1991,eng] 50-4905
- Snow and ice control. Minnesota. Office of the Legislative Auditor, [1995,eng] 50-3596
- Snow in the cities—a history of America's urban response. McKelvey, B., [1995,eng] 50-1123
- Some innovations in snow and ice control equipment. [1995,eng] 50-4156
- Spreader of choice for Michigan's snow-bound Upper Peninsula. Haag, J., [1995,eng] 50-1086
- State-of-the-art on power line de-icing. Laforte, J.L., et al. [1996,eng] 50-5369
- Structural ice control: review of existing methods. Tuthill, A.M., [1995,eng] 50-1420
- Technological problems of fisheries civil engineering in frozen seas. Nagano, A., et al. [1996,jpn] 50-5891
- Tests clear snow, path for use of liquid anti-icing in northwest. Deep, D., et al. [1995,eng] 50-1954
- Three-dimensional simulation of river ice jams. Hopkins, M.A., et al. [1996,eng] 50-6155
- West Dock Causeway bridge piers. Christopherson, A.B., et al. [1996,eng] 50-6133
- What is an ice boom. Hokkaido Civil Engineering Research Institute. Fisheries Civil Engineering Laboratory (Suisan doboku kenkyushitsu), [1994,jpn] 50-2831
- What you need to know about prewetting deicers. Mergenmeier, A., [1995,eng] 50-3857
- Winter flying—helicopters. [1985,eng] 50-3794
- Winter flying. [1985,eng] 50-3793
- Winter maintenance and chemical shortages. Pagan, A.R., [1995,eng] 50-1558
- Winter maintenance: back to the basics. [1995,eng] 50-3856
- Zero-velocity deicer spreaders clear more roadway for less. Banasiak, D., [1995,eng] 50-3675
- See [also]: Ice prevention
- Ice cores**
- 10-century comparison of prominent bipolar volcanic events in ice cores. Langway, C.C., Jr., et al. [1995,eng] 50-583
- 110,000-yr record of explosive volcanism from the GISP2 (Greenland) ice core. Zielinski, G.A., et al. [1996,eng] 50-4575
- 130 years deposition record of sulfate, nitrate and chloride from a high-alpine glacier. Döschner, A., et al. [1995,eng] 50-4079
- 135,000-year Vostok SPECMAP common temporal framework. Sowers, T., et al. [1993,eng] 50-2867
- Accelerator mass spectrometry: new applications. Synal, H.A., [1995,eng] 50-2309
- Aging effects on translational lattice vibrations in ice I_h . Fukuzawa, H., et al. [1996,eng] 50-6615
- AMANDA: Antarctic Muon And Neutrino Detector Array. Barwick, S.W., et al. [1994,eng] 50-4694
- Ancient pollution recorded in Greenland ice. Hong, S.M., et al. [1996,eng] 50-3956
- Application of AMS ^{14}C dating to ice core research. Wilson, A.T., [1995,eng] 50-5246
- Atmospheric chemistry changes versus past climate inferred from polar ice cores. Legrand, M., [1995,eng] 50-1643
- Atmospheric CO_2 and isotopic carbon-13 dioxide in ice-core air bubble. Wahlen, M., [1994,eng] 50-1894
- Atmospheric CO_2 in peat. White, J.W.C., et al. [1994,eng] 50-3770
- Atmospheric CO_2 variations inferred from antarctic ice composition. Etheridge, D.M., et al. [1996,eng] 50-3446
- Biomass burning recorded in the GISP2 ice core: a record from eastern Canada? Taylor, K.C., et al. [1996,eng] 50-4370
- Bubble formation experiments in snow densification. Ishii, S., et al. [1995,eng] 50-3248
- Canadian paleoenvironments derived from pollen macrofossils. Gajewski, K., et al. [1995,eng] 50-2131

Ice coring drills

Ice cover

- Challenging an ice-core paleothermometer. MacAyeal, D.R., [1995,eng] 50-628
- Characteristics of basal ice at Engabreen, northern Norway. Jansson, P., et al. [1996,eng] 50-6248
- Chinese loess accumulation compared to Greenland ice core climatology. An, Z.S., et al. [1995,eng] 50-1065
- Climate change during the last deglaciation in Antarctica. Mayewski, P.A., et al. [1996,eng] 50-5067
- Climate of the penultimate ice age according to data from an antarctic ice core. Kotliakov, V.M., et al. [1993,rus] 50-4103
- Climatic implications of solar modulation of cosmogenic isotopes in antarctic ice cores. Steig, E.J., et al. [1996,eng] 50-3549
- Climatic influences on Chinese water resources. Shi, Y.F., et al. [1995,eng] 50-4231
- Comment on paper by Blanchon et al. Clark, P.U., et al. [1995,eng] 50-1101
- Contrasting atmospheric and paleoclimate dynamics. Ditlevsen, P.D., et al. [1996,eng] 50-3352
- Contributions of snow and fog to Greenland ice sheet ionic variations. Bergin, M.H., et al. [1995,eng] 50-586
- Cores. Kneller, M., [1996,eng] 50-4981
- Correction for *in-situ* ^{14}C in antarctic ice with $^{14}\text{CO}_2$. Van Roijen, J., et al. [1995,eng] 50-5245
- Coupling PIXE and SEM/EDAX for characterizing atmospheric aerosols in ice-cores. Laj, P., et al. [1996,eng] 50-6324
- Deep ice stirs debate on climate stability. Monastersky, R., [1993,eng] 50-4800
- Determining past atmospheric HCl mixing ratios from ice core analyses. Domine, F., et al. [1995,eng] 50-1104
- Development of a new shallow ice core drill. Takahashi, A., [1996,jpn] 50-3503
- Development of the JARE deep ice coring system (II). Narita, H., et al. [1995,jpn] 50-1693
- Diatoms in South Pole ice: implications for eolian contamination of Sirius Group deposits. Kellogg, D.E., et al. [1996,eng] 50-3387
- Dissolved organic matter in arctic sea ice. Thomas, D.N., et al. [1995,eng] 50-717
- Dome-Fuji deep drilling facility, JARE 35. Saito, T., [1995,jpn] 50-3497
- Dust in glaciers around Taklimakan Desert. Han, J.K., et al. [1995,eng] 50-615
- Dust in Greenland and antarctic ice cores of the LGM. Yung, Y.L., et al. [1996,eng] 50-2727
- Earth's atmospheric record in ice cores. Bouton, C.F., [1995,eng] 50-5069
- Estimates of Greenland atmospheric impurity variations during deglaciation. Alley, R.B., et al. [1995,eng] 50-1872
- European paleoclimatic variations inferred from Greenland ice core isotope analysis. Hafidason, H., et al. [1995,eng] 50-2528
- First data and future prospects for AMANDA, the antarctic muon and neutrino detector. AMANDA Collaboration, [1994,eng] 50-5215
- First results of $^{15}\text{N}/^{14}\text{N}$ ratios in nitrate from alpine and polar ice cores. Freyer, H.D., et al. [1996,eng] 50-3724
- Forest fire records inferred from Greenland ice core chemistry. Legrand, M., et al. [1996,eng] 50-3447
- Glacial ice fragments in antarctic sea ice. Haas, C., et al. [1995,eng] 50-464
- Glacier geophysics at Taylor Dome: year 4. Waddington, E.D., et al. [1994,eng] 50-1899
- Glacier properties on Mt. Qogir, Karakorum. Qin, D.H., et al. [1994,eng] 50-1538
- Glaciers and global warming. Koerner, R.M., et al. [1995,eng] 50-5040
- Glaciers in the high Arctic and recent environmental change. Dowdeswell, J.A., [1995,eng] 50-5236
- Glaciological research in Hidden Valley, Mukut Himal in 1994. Fujii, Y., et al. [1996,eng] 50-5510
- Greenland '90: a first step toward using the polar ice cap as a Cherenkov detector. Barwick, S.W., et al. [1992,eng] 50-4263
- Greenland and United Kingdom paleotemperatures comparisons from Greenland snow accumulation rates. Lowe, J.J., et al. [1995,eng] 50-1082
- Greenland ice core record of Holocene climate. O'Brien, S.R., et al. [1995,eng] 50-1797
- Greenland ice core records and rapid climate change. Dowdeswell, J.A., et al. [1995,eng] 50-5239
- Greenland ice core sediments correlated with oceanic sediments. Grönvold, K., et al. [1995,eng] 50-1251
- Greenland ice sheet climate record of the past 16,500 years. Stuiver, M., et al. [1995,eng] 50-2015
- Greenland Ice-Core Project (GRIP): three years of activity. Maggi, V., et al. [1994,ita] 50-2821
- Greenland paleotemperatures derived from ice core isotope profiles. Johnsen, S.J., et al. [1995,eng] 50-2027
- Greenland's ice holds key to climate puzzle. Kiernan, V., [1996,eng] 50-6546
- Hemispheric climate relations revealed by bottom sediment/ice core correlations. Charles, C.D., et al. [1996,eng] 50-6632
- High-resolution ammonium ice core record covering a complete glacial-interglacial cycle. Fuhrer, K., et al. [1996,eng] 50-3448
- High-resolution mass spectrometry for ice core trace element determination. Shimamura, T., et al. [1995,eng] 50-2576
- Historical records of fatty acids in an ice core from Site-1, Greenland. Kawamura, K., et al. [1995,eng] 50-3247
- Ice bubbles confirm big chill. Kerr, R.A., [1996,eng] 50-5065
- Ice core records for analyzing desertification. Nakawo, M., et al. [1995,eng] 50-614
- Ice shelf structure at Maudheim Station. Schytt, V., [1958,eng] 50-6420
- Ice textures in an ice core from the Guliya Ice Cap. Huang, M.H., et al. [1995,eng] 50-4514
- Ice-core analysis for sea-ice development in Ross, Amundsen and Bellingshausen seas, 1993 and 1994 winters. Jeffries, M.O., et al. [1995,eng] 50-6503
- Identification of fossil plant fragments in glaciers. Lindskog, A., et al. [1995,swe] 50-1470
- Internal melt figures in Japanese pond ice and microparticles in antarctic ice cores. Higashi, A., [1996,jpn] 50-4931
- Isotope analysis of Greenland ice sheet stratigraphic disturbances. Fuchs, A., et al. [1996,eng] 50-5461
- Isotopic analysis of snow on Asian glacier surfaces. Aizen, V.B., et al. [1996,eng] 50-5256
- Isotopic calibration of Canadian arctic climatic change records. Beltrami, H., et al. [1995,eng] 50-3682
- Isotopic climatic records in the Allerød-Bølling-Younger Dryas and post-Younger Dryas events. Epstein, S., [1995,eng] 50-2804
- Japanese glaciological environmental studies in the arctic cryosphere. Watanabe, O., [1995,jpn] 50-3507
- Lake Vostok beneath the antarctic ice sheet—a Russian research proposal. Kaminuma, K., [1995,jpn] 50-3498
- Late Holocene ice core history of the TAM. Mayewski, P.A., et al. [1995,eng] 50-1191
- Lead isotopic ratios in Greenland and antarctic snow and ice. Chisholm, W., et al. [1995,eng] 50-1256
- Linear least squares method for time series analysis. Khalil, M.A.K., et al. [1995,eng] 50-2388
- Liquid water content in temperate glacier cores. Joubert, J.L., [1963,fre] 50-5742
- Little Ice Age evidence from a south-central North American ice core. U.S.A. Naftz, D.L., et al. [1996,eng] 50-4334
- Making an ice core. Kopaska-Merkel, D.C., [1995,eng] 50-1150
- Measuring the conductivity and density of ice cores. Wilhelms, F., [1996,ger] 50-4735
- Mineral dust record in a high altitude alpine glacier (Colle Gnifetti, Swiss Alps). Wagenbach, D., et al. [1989,eng] 50-5411
- Movement of fuel spills in the Ross Ice Shelf. Tumeo, M.A., et al. [1994,eng] 50-5216
- Neoglobobulimina pachyderma* distribution in the sea ice of Lützow-Holm Bay. Igarashi, A., et al. [1996,eng] 50-6036
- New geography of the polar regions: synthesis and perspectives. Orombelli, G., ed., et al. Atti del Convegno della Società Geografica Italiana, Roma, 21-22 Novembre 1991 (Proceedings of the Italian Geographical Society Conference, Rome, 21-22 November 1991), [1994,ita] 50-2817
- No iridium anomaly after the 1908 Tunguska impact: evidence from a Greenland ice core. Rasmussen, K.L., et al. [1995,eng] 50-2741
- North Pacific rapid climate variability. Kotilainen, A.T., et al. [1995,eng] 50-338
- Norwegian Sea Pleistocene ice-core indicators of climatic change. Sejrup, H.P., et al. [1995,eng] 50-6564
- Occurrence of an algal bloom under arctic pack ice. Gradinger, R., [1996,eng] 50-4159
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995,eng] 50-1866
- On the concentrations of O_2 , N_2 , and Ar in trapped gases from ice cores. Bender, M., et al. [1995,eng] 50-633
- Organic carbon paleo- pCO_2 and marine-ice core correlations and chronology. Raymo, M.E., et al. [1996,eng] 50-3601
- Paleoclimate of the Taklimakan Desert from glacier ice cores. Nakawo, M., [1991,jpn] 50-1424
- Paleoclimatic CO_2 record related to changes in oceanic thermohaline circulation. Figge, R.A., et al. [1995,eng] 50-1149
- Peroxide concentrations in the Dome Summit South ice core. Law Dome, Antarctica. van Ommen, T.D., et al. [1996,eng] 50-6327
- Pipe rigidity as a failure index under explosive loads. Abd El Halim, A.O., et al. [1996,eng] 50-5047
- Plausible hydrological scenario for the Bølling-Allerød atmospheric methane increase. Kalin, R.M., et al. [1996,eng] 50-4376
- Pleistocene climatic changes in arctic marine atmospheres. Seidenkrantz, M.S., et al. [1996,eng] 50-5584
- Polar ice stratigraphy from laser-light scattering: scattering from ice. Ram, M., et al. [1995,eng] 50-3098
- Polar news/Notizie polari, Vol.11, No.3. Centro Ricerca e Documentazione Polare, Rome, [1996,ita] 50-4768
- Processes affecting the CO_2 concentrations measured in Greenland ice. Ankinin, M., et al. [1995,eng] 50-975
- Progress in glaciology and Quaternary glaciation research in China since 1978. Shi, Y.F., et al. [1995,eng] 50-4510
- Rapid climatic shifts during isotope stages 2-4 in the polar North Atlantic. Dokken, T.M., et al. [1996,eng] 50-6105
- Rapid oscillations in Vostok and GRIP ice cores. Yiou, P., et al. [1995,eng] 50-772
- Recent air pollution variations inferred from Greenland ice sheet heavy metal concentrations. Candelone, J.P., et al. [1995,eng] 50-590
- Recent progress in Vostok ice core analysis studies on ancient air stored in ice cores. Uchida, T., [1995,jpn] 50-992
- Recent progress in Vostok ice core analysis: paleoclimate and paleoenvironment. Osada, K., [1995,jpn] 50-1000
- Refractive-index measurements of natural air-hydrate crystals in an antarctic ice sheet. Uchida, T., et al. [1995,eng] 50-977
- Relevance of glacial bed debris to glacial mechanics. Gow, A.J., et al. [1996,eng] 50-6251
- Science news from The Ice: highlights from the 1994-1995 austral summer. Simarski, L., [1995,eng] 50-6500
- Sea ice data report. Kovacs, A., et al. [1970,eng] 50-3854
- Shallow ice coring and borehole casing at Dome Fuji Station, East Antarctica. Motoyama, H., et al. [1995,eng] 50-1694
- Simple model to estimate atmospheric concentrations of aerosol chemical species based on snow core chemistry at Summit, Greenland. Bergin, M.H., et al. [1995,eng] 50-3097
- Solar particle origin for polar ice core nitrate anomalies. Zeller, E.J., et al. [1995,eng] 50-1184
- Spectroscopy of ice clathrate decomposition to air bubbles. Pauer, F., et al. [1996,eng] 50-3067
- Stratigraphic detection of Greenland ice sheet chemical changes. Wolff, E.W., et al. [1995,eng] 50-584
- Stratigraphy and physics of the Taylor Dome ice core. Fitzpatrick, J.J., [1994,eng] 50-1900
- Studies of clean and sediment-laden ice in the Laptev Sea. Eicken, H., et al. [1995,eng] 50-2071
- Summer temperatures from an ice core at Law Dome. Han, J.K., [1989,chi] 50-6771
- Taylor Ice Dome study 1993-1994: an ice core to bedrock. Grootes, P.M., et al. [1994,eng] 50-1898
- Terrestrial molluscs as indicators of global aeolian dust fluxes during glacial states. Rousseau, D.D., [1992,eng] 50-2552
- Thickness and ablation measurements of Fremont Glacier, Wyoming. Naftz, D.L., et al. [1993,eng] 50-4796
- Thickness of summer Arctic Ocean multiyear ice. Eicken, H., et al. [1995,eng] 50-2112
- Toba eruption sulfates recorded in GISP2 ice core. Zielinski, G.A., et al. [1996,eng] 50-5288
- Triaxial experiments on iceberg and glacier ice. Gagnon, R.E., et al. [1995,eng] 50-1874
- Variations in atmospheric methane. Brook, E.J., et al. [1996,eng] 50-6196
- Volcanic stratospheric loading derived from Greenland ice core measurements. Zielinski, G.A., [1995,eng] 50-1331
- Vostok ice core deuterium variations over the last two glacial cycles. Waelbroeck, C., et al. [1995,eng] 50-4089
- Younger Dryas as viewed through the Summit Greenland ice cores. Mayewski, P.A., [1994,eng] 50-5301
- Ice coring drills**
- Development of a new shallow ice core drill. Takahashi, A., [1996,jpn] 50-3503
- Development of JARE deep ice coring system (III). Takahashi, A., et al. [1996,jpn] 50-6347
- Development of the JARE deep ice coring system (II). Narita, H., et al. [1995,jpn] 50-1693
- Instruments for coring, structure and composition analysis and monitoring sea ice. Zagorodnov, V.S., et al. [1995,eng] 50-6317
- Shallow ice coring and borehole casing at Dome Fuji Station, East Antarctica. Motoyama, H., et al. [1995,eng] 50-1694
- See [also]: Ice drills
- Ice cover**
- Characteristics of applied geomorphological studies in regions with Pleistocene ice sheets. Spiridonov, A.I., [1995,rus] 50-3772
- Characteristics of the geocryological conditions in shallow water areas in the cryolithozone. Buldovich, S.N., [1996,rus] 50-6389
- Correlation of glacial episodes in Poland and Scandinavia. Lindner, L., et al. [1995,eng] 50-2611
- Decrease in the equilibrium line of glaciers in the European Arctic during the Pleistocene. Grosvald, M.G., et al. [1972,rus] 50-540
- Degradation of Arctic ice cap islands from climatic warming. Ignat'eva, I.I.U., et al. [1993,rus] 50-883
- Device for boring holes in ice. Solov'eva, I.U.A., [1992,rus] 50-1945
- Drifting ice forces on offshore piles. Afanas'ev, V.P., et al. [1990,eng] 50-98
- Extent of the Warta Glaciation deposits in the northern foreland of the Lublin upland near Deblin. Zarski, M., [1993,pol] 50-3669
- Gravitational platform and the means for its assembly. Ionin, V.S., et al. [1992,rus] 50-1904
- Mathematical model of synoptic variation in drifting ice cover due to atmospheric factors. Zuev, A.N., [1992,rus] 50-1264
- Mechanism of the development of the Pomeranian Phase marginal zone in the Lake Drawa district. Kłysz, P., [1990,pol] 50-5004
- Method of calculating the breakup of ice cover. Khvedynich, S.V., [1992,rus] 50-1265
- Method of preserving ice. Fel'dman, B.I.A., [1992,rus] 50-1947
- Modeling the effects of climate change on lakes. Frisk, T., et al. [1994,eng] 50-3198
- Morphological-paleogeographical features of the Warta Glaciation relief in the Rawka River lobe. Klajnert, Z., [1993,pol] 50-3657
- Mountainous meteorology, climatology and aerology of the lower layers of troposphere. Panenka, I., ed. [1991,eng] 50-3518
- On the modelling of ice cover fracture. Slepian, L.I., [1990,eng] 50-94
- Prediction model for complete ice cover formation in partly open water. Sasaki, N., et al. [1996,eng] 50-4480

Ice cover distribution

- Project III.11.1: New concepts in removing ice. Ierusalimskii, A.V., [1996.eng] 50-4447
 Radiochronometry of the ice sheet in the Upper Pleistocene. Serebrianniy, L.R., [1972.rus] 50-539
 Rhythmic nature of the Pleistocene. Maksimov, E.V., [1972.rus] 50-542
 Reservoirs of Central Asia. Nikitin, A.M., [1991.rus] 50-2518
 Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savel'ev, B.A., [1963.rus] 50-3832
 Warta Glaciation deposits within the non-glaciated zone in the Polesie Lubelskie. Wojtanowicz, J., [1993.pol] 50-3668

Ice cover distribution

See [also]: Ice conditions; Sea ice distribution

Ice cover effect

- 10,000-years dynamics of limnic ecosystems and climatic change. Salonen, V.-P., et al., [1994.eng] 50-3182
 1991 ice jamming along the Saint John River: a case study. Beltaos, S., et al., [1996.eng] 50-5809
 Abstracts. International Symposium on Okhotsk Sea and Sea Ice, 11th, Mombetsu, Hokkaido, Japan, Feb. 25-28, 1996. [1996.eng] 50-5872
 Acoustic response to variations of water and ice characteristics. Gavrilov, A.N., et al., [1995.eng] 50-5736
 Acoustics probe sea-ice mechanics. Rajan, S.D., [1996.eng] 50-6675
 Adhesion of oil to plastics, stainless steel and ice. Liukkonen, S., et al., [1995.eng] 50-5716
 Analysis of spatial reverberation statistics in the central Arctic. LePage, K., et al., [1996.eng] 50-5191
 Analysis of the Komiheft pipeline oil. Lambert, P., et al., [1995.eng] 50-5734
 Antarctic cloud scattering depth using ground-based radiometry. Ricchiuzzi, P., et al., [1995.eng] 50-1335
 Arctic kelp community in the Alaskan Beaufort Sea. Dunton, K.H., et al., [1982.eng] 50-3681
 Arctic Ocean atmospheric boundary layer structure and flow. Nilsson, E.D., [1996.eng] 50-4314
 Arctic Ocean dimethyl sulfide seasonal variability. Leck, C., et al., [1996.eng] 50-4313
 Arctic oceanography: marginal ice zones and continental shelves. Smith, W.O., Jr., ed., et al., [1995.eng] 50-1159
 Arctic sea ice decreases related to wind variations. Maslanik, J.A., et al., [1996.eng] 50-6511
 Arctic wasteland: a perspective on arctic pollution. Davis, N., [1996.eng] 50-5838
 Arctic. Barry, R.G., [1996.eng] 50-4977
 Assessment of global climate model simulations of arctic air temperatures. Tao, X., et al., [1996.eng] 50-5532
 Atmosphere-ocean interactions in the marginal ice zones of the Nordic seas. Guest, P.S., et al., [1995.eng] 50-1161
 Atmosphere-surface interactions over polar oceans and heterogeneous surfaces. Vihma, T., [1995.eng] 50-4035
 Automated wind tunnel measurements. Stumpf, P., et al., [1994.eng] 50-3689
 Autumnal sea ice biota in polar seas. Hoshiai, T., et al., [1996.eng] 50-6031
 Bedrock surface weathering on Finnish fjell summits. McCarroll, D., et al., [1996.eng] 50-5825
 Biogeochemical cycling in a seasonally anoxic lake. Hamilton-Taylor, J., et al., [1996.eng] 50-5818
 Biological CO₂ pump in seasonally ice-covered waters. Legendre, L., [1996.eng] 50-6033
 Biological processes on arctic continental shelves: ice-ocean-biotic interactions. Grebmeier, J.M., et al., [1995.eng] 50-1166
 Bromoform emission from ice algae and arctic ozone depletion. Buckley, P.T., [1993.eng] 50-700
 Build-up, decay and role of the sea-ice cover of the Liefdefjord, NW Spitsbergen. King, L., et al., [1994.eng] 50-1596
 Case study in three-dimensional inverse methods: combining hydrographic, acoustic, and moored thermistor data in the Greenland Sea. Morawitz, W.M.L., et al., [1996.eng] 50-5167
 Changes in North Atlantic deep-water formation associated with the Heinrich events. Maslin, M.A., [1995.eng] 50-638
 Characteristics of Arctic Ocean climate based on COADS data, 1980-1993. Clark, M.P., et al., [1996.eng] 50-6545
 Characteristics of frequency spectra of wind waves in the presence of ice floes. Hayakawa, T., et al., [1996.jp] 50-5881
 Characteristics of surface roughness associated with leading-edge ice accretion. Shin, J.W., [1996.eng] 50-4407
 Chemical correlates of Hg and methyl-Hg in northern Wisconsin lake waters under ice-cover. Watras, C.J., et al., [1995.eng] 50-2125
 Chemical oceanography of the Arctic and its shelf seas. Anderson, L.G., [1995.eng] 50-1164
 Chlorophyll distribution in a body of fresh water covered with ice. Zavonuev, V.V., et al., [1996.eng] 50-5816
 Circulation and transport of water along the western Weddell Sea margin. Muench, R.D., et al., [1995.eng] 50-568
 Climate and ice-snow cover. Peng, G.B., et al., [1992.chi] 50-1168
 Climate change and biological oceanography of the Arctic Ocean. Gradinger, R., [1995.eng] 50-5233
 Climate simulations with a global atmosphere-ocean model, pt.1. Lunkeit, F., et al., [1996.eng] 50-4090
 Climatological aspects of cyclone development and decay in the Arctic. Serreze, M.C., [1995.eng] 50-599
 Coastal environments of the western Kara and eastern Barents Seas. Pirman, S.L., et al., [1995.eng] 50-4558
 Cold bottom water in the southern Laptev Sea. Churun, V.N., et al., [1995.eng] 50-2076
 Comments on paper by P.S. Anderson. Makkonen, L., et al., [1996.eng] 50-6587
 Comparing simulated glacial climate and paleodata: a reexamination. Broccoli, A.J., et al., [1996.eng] 50-4398
 Comparison of air temperature and humidity in standard and experimental shelters at Lomnický štít. Gajar, B., et al., [1991.eng] 50-3523
 Comparison of monthly sea ice simulation models. Wu, X.R., et al., [1996.eng] 50-5451
 Comprehensive review of oil spill combustion studies. Walavalkar, A.Y., et al., [1996.eng] 50-5559
 Contaminants in the arctic marine environment: priorities for protection. Macdonald, R.W., et al., [1996.eng] 50-5574
 Coupled ice-ocean-atmosphere model of the Bering Sea. Hedstrom, K.S., [1995.eng] 50-6310
 Coupled vertical and horizontal galloping—discussion. Havard, D.G., et al., [1993.eng] 50-3253
 Coupling and propagation of elastic waves in arctic pack ice. Jarvis, S.M., et al., [1994.eng] 50-5178
 Daily vertical migration of antarctic copepods beneath the ice. Tselidin, V.B., et al., [1995.eng] 50-3607
 Decadal oscillations driven by the annual cycle in a zonally-averaged coupled ocean-ice model. Yang, J.Y., et al., [1996.eng] 50-3069
 Deep water formation in the Greenland Sea. Pawlowicz, R.A., et al., [1996.eng] 50-6669
 Description of the Martian polar cap breeze. Fernández, W., [1995.eng] 50-3671
 Development of a regional climate model of the western Arctic. Lynch, A.H., et al., [1995.eng] 50-597
 Device for towing a seismographic bar in ice-covered seas. Sokolov, I.I., et al., [1989.rus] 50-1658
 Diatom distribution on Baffin Island, Canada. Wolfe, A.P., [1996.eng] 50-6514
 Distribution and biomass of Greenland shelf epibenthic megafauna. Piepenburg, D., et al., [1996.eng] 50-5045
 Distribution of sea-ice algae in Hudson Bay. Monti, D., et al., [1996.eng] 50-5211
 Disturbances in the thermohaline structure of the near-surface ocean layer in the wake of an iceberg. Abaza, V.P., et al., [1995.rus] 50-4202
 DOC storage in arctic seas: the role of continental shelves. Walsh, J.J., [1995.eng] 50-1165
 Doppler observations of Bering Sea ice edge ocean circulation. Okkonen, S., et al., [1995.eng] 50-1032
 Downwelling radiation fluxes at the arctic surface based on parameterizations. Silcox, R.A., [1994.eng] 50-5303
 Dynamics of heat exchange between sediment and water in a lake. Fang, X., et al., [1996.eng] 50-5970
 Dynamics of river ice jam release. Shen, H.T., et al., [1996.eng] 50-6156
 Earthquake response offshore structures surrounded by ice floes (Part 11). Okamoto, N., et al., [1996.jp] 50-5882
 Effect of river-ice break-up on suspended sediment and select trace-element fluxes. Milburn, D., et al., [1994.eng] 50-5698
 Effect of sea ice distribution on atmospheric circulation models. Grötzner, A., et al., [1996.eng] 50-5864
 Effect of snow cover anomaly on global climate. Krenke, A.N., et al., [1995.rus] 50-3969
 Effects of pack ice on Weddell Sea plankton distribution. Kaufmann, R.S., et al., [1995.eng] 50-4160
 Effects of sea ice cover on atmospheric methane over the Sea of Okhotsk. Lammers, S., et al., [1995.eng] 50-1147
 Elastic response of the earth to interannual variations in antarctic precipitation. Conrad, C.P., et al., [1995.eng] 50-3089
 Electro-impulse deicing of the NASA Lewis altitude wind tunnel turning vanes. Ross, R., [1988.eng] 50-4100
 Emulsion breaking igniters: recent developments in oil spill igniter concepts. Guénette, C.C., et al., [1995.eng] 50-5729
 Engineering repercussions of ocean wave propagation in ice-infested seas. Squire, V.A., [1995.eng] 50-176
 Environmental effects of the Antonio Gramsci oil spill in 1987. Hirvi, J.P., [1990.eng] 50-469
 Environmental factors influencing the biodegradation of petroleum hydrocarbons in cold seawater. Siron, R., et al., [1995.eng] 50-651
 Eolian dust in deep sea sediments from arctic pack ice. Pirman, S., et al., [1989.eng] 50-5408
 Erosion by water flowing under ice. Tietze, W., [1961.ger] 50-5747
 Estimation of mean flow velocity in ice-covered channels—discussion. Engel, P., et al., [1996.eng] 50-6338
 Estimation of mean velocity for flow under ice cover. Teal, M.J., et al., [1995.eng] 50-4040
 Estimation of surface albedo from NOAA AVHRR data in high latitudes. Laine, V., et al., [1996.eng] 50-5870
 European paleoclimatic changes based on coleopteran analysis. Coope, G.R., et al., [1995.eng] 50-6565
 Evaluation of flow resistance in ice-covered channels. Brailleau, F., et al., [1996.eng] 50-6157
 Evaluation of surface radiative flux parameterizations for use in sea ice models. Key, J.R., et al., [1996.eng] 50-3451
 Evaluation of winter vehicle traction with different types of tires. Lu, J.J., et al., [1995.eng] 50-5709
 Evaluation of winter vehicle traction with different types of tires. Lu, J.J., et al., [1995.eng] 50-5709
 Experiences of wind gauges used for measurements in cold regions. Tammelin, B., [1992.eng] 50-3637
 Fall phytoplankton biomass, P-I relationships and primary production in the Weddell Sea. Dower, K.M., et al., [1996.eng] 50-4008
 Formation and evolution of the surface mixed layer and halocline of the Arctic Ocean. Rudels, B., et al., [1996.eng] 50-5261
 Freeze protection of Florida citrus with microsprinkler irrigation. Parsons, L.R., et al., [1995.eng] 50-3074
 Freezing driven upwelling in antarctic sea ice biological systems. Ackley, S.F., et al., [1996.eng] 50-6032
 Freshwater impact on Hudson bay ecosystems under sea ice, pt.2. Legendre, L., et al., [1996.eng] 50-4020
 Freshwater impact on Hudson bay ecosystems under sea ice, pt.3. Fortier, L., et al., [1996.eng] 50-4021
 Glacial influence on offshore Norwegian sediment properties. Sætem, J., et al., [1996.eng] 50-5320
 Glacial isostatic uplift of Tibet as a consequence of a former ice sheet. Kuhle, M., [1995.eng] 50-6064
 Glaciers. Meier, M.F., [1996.eng] 50-4983
 Glimpse beneath the ice. Plueddemann, A.J., [1996.eng] 50-6674
 Global sea-ice—upper-ocean model: some preliminary results. Fichefet, T., et al., [1993.eng] 50-4821
 Great Lakes ice cover studies. U.S. National Oceanic and Atmospheric Administration. Great Lakes Environmental Research Laboratory (GLERL), Ann Arbor, MI, [1995.eng] 50-2479
 Ground penetrating radar sounding of bedrock under a frozen lake. Davis, J.L., et al., [1992.eng] 50-57
 Ground penetrating radar sounding of bedrock under a frozen lake. Davis, J.L., et al., [1992.eng] 50-57
 Guide to polar diving. Jenkins, W.T., [1976.eng] 50-3837
 Heat and dissolved oxygen transport processes in ice-covered lakes. Ellis, C.R., [1994.eng] 50-373
 Heat budgets of the Arctic Ocean and Nordic Seas. Simonsen, K., et al., [1996.eng] 50-4298
 Heat flux through Weddell Sea ice cover. Lytle, V.I., et al., [1996.eng] 50-5263
 Heated anemometer for atmospheric icing environments. Kenyon, P.R., et al., [1992.eng] 50-3638
 High-latitude climate change with an atmospheric coupled sea ice model. Washington, W.M., et al., [1996.eng] 50-6055
 Hydrologic cycle parameterization for energy balance climate models. Chu, S.P., et al., [1995.eng] 50-587
 Ice drift and oil spill hazard off Sakhalin. Kalinin, E.N., et al., [1996.eng] 50-5900
 Ice effects on Mackenzie River hydraulics at the outlet of Great Slave Lake. Chen, X.B., [1993.eng] 50-377
 Ice in the intake causes close call. [1990.eng] 50-3572
 Ice jam flooding on the Missouri River near Williston, North Dakota. Wuebben, J.L., et al., [1995.eng] 50-2707
 Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., [1995.eng] 50-2480
 Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., et al., [1995.eng] 50-4039
 Ice-covered temperate lake limnology. Agbeti, M.D., et al., [1995.eng] 50-739
 Ice-mounted acoustic element localization system. Sotiriu, B.J., et al., [1994.eng] 50-5174
 Ice-ocean seasonal cycle and climate response in Hudson Bay. Soucier, F.J., et al., [1995.eng] 50-5931
 Ice-sheet growth and high-latitudes sea-surface temperature. Berger, A., et al., [1996.eng] 50-5862
 Ice-volume forcing of East Asian winter monsoon variations in the past 800,000 years. Ding, Z.L., et al., [1995.eng] 50-965
 Iceberg observations and estimation of submarine ridges in the western Weddell Sea. Viehoff, T., et al., [1995.eng] 50-1818
 Icing conditions encountered by a research aircraft. Sand, W.R., et al., [1984.eng] 50-4493
 Icing test and rework of WECS for use on Lapland's fjells. Bohmeke, G., et al., [1992.eng] 50-3635
 Impact of glaciation on the groundwater regime of northwest Europe. Boulton, G.S., et al., [1996.eng] 50-5326
 Impact of subglacial groundwater flow on moraine formation. Boulton, G.S., et al., [1995.eng] 50-2129
 In-situ burning of crude oil and emulsions in broken ice. Guénette, C.C., et al., [1996.eng] 50-5557
 Inertial currents in the Beaufort Sea: observations of response to wind and shear. Merrifield, M.A., et al., [1996.eng] 50-4299
 Influence of a finite glaciation phase on predictions of post-glacial isostatic adjustment. Mitrovica, J.X., et al., [1995.eng] 50-2723
 Influence of glaciation on the basin temperature regime. Johansen, H., et al., [1996.eng] 50-5328
 Instability trends of inertially coupled galloping, part 1: initiation. Yu, P., et al., [1995.eng] 50-1053
 Instability trends of inertially coupled galloping, part 2: periodic variations. Yu, P., et al., [1995.eng] 50-1054
 Inter-annual variability in marine coastal antarctic bacterioplankton. Delille, D., et al., [1996.eng] 50-4006
 Interaction of arctic fogs with aerosols. Nilsson, E.D., et al., [1996.eng] 50-4318
 Interactive oil spill trajectory model for Alaskan arctic waters. Britch, R.P., et al., [1990.eng] 50-468
 Interdecadal climate variability in the subpolar North Atlantic. Wohleben, T.M.H., et al., [1995.eng] 50-2743
 Intermittent-discharge lagoons for use in cold regions. Prince, D.S., et al., [1995.eng] 50-1840
 Investigation of the general circulation of the Arctic Ocean using an isopycnal model. Holland, D.M., et al., [1996.eng] 50-3822

Ice cover strength

Ice cover strength

- Investigations of air-sea interactions carried out during the TRANSDRIFT II Expedition. Afanas'eva, I.U., et al. [1995,eng] 50-2060
- Isotope analysis of Arctic Ocean ice algae primary productivity. Hobson, K.A., et al. [1995,eng] 50-3359
- Katabatic winds over an East Antarctic cirque. Jonsson, S., [1995,eng] 50-1338
- Laboratory tests of oil fate in cold water, ice and waves. Timco, G.W., et al. [1995,eng] 50-51
- Laptev Sea organic carbon surface sediments. Stein, R., et al. [1995,eng] 50-2097
- Late Quaternary lake-level record from northern Eurasia. Harrison, S.P., et al. [1996,eng] 50-4578
- Laurentide ice sheet oscillations as cause of Atlantic Ocean Heinrich events. MacAyeal, D.R., [1993,eng] 50-2869
- Life cycle of *Paralabidocera antarctica* at Showa Station. Tanimura, A., et al. [1996,eng] 50-6414
- Maintaining the thermohaline circulation. Mauritzen, C., et al. [1996,eng] 50-6670
- Marginal filter of the ocean. Lisitsyn, A.P., [1995,eng] 50-3542
- Marine bacterioplankton and sea ice bacterial seasonal changes. Delille, D., et al. [1996,eng] 50-3869
- Mesoscale and microscale characteristics of a CASP II severe ice pellet storm. Hanesiak, J.M., [1994,eng] 50-4170
- Method for seismic exploration in arctic regions. Barr, F.J., et al. [1995,eng] 50-3457
- Microalgal light-harvesting in McMurdo Sound. Robinson, D.H., et al. [1995,eng] 50-106
- Microbial biology of melting Weddell Sea ice. Gleitz, M., et al. [1996,eng] 50-5677
- Microorganisms sustaining large animals in seasonally ice-covered seas. Legendre, L., [1996,eng] 50-5907
- Microsprinkler irrigation for freeze protection of young citrus trees. Davies, F.S., [1995,eng] 50-3075
- Midge emergence during thaw cycles of a subalpine lake. Sherk, T., et al. [1996,eng] 50-4504
- Mixing in ice-covered lakes. Bengtsson, L., [1996,eng] 50-6579
- Model of drag forces on sea ice bottom surfaces. Pite, H.D., et al. [1995,eng] 50-2740
- Modeling climatic sensitivity of European marginal seas. Backhaus, J.O., [1996,eng] 50-4022
- Modeling the influence of ice on sea level variations in the Baltic Sea. Zhang, Z.H., et al. [1995,eng] 50-6758
- Modeling the surface heat flux response to long-lived SST anomalies in the North Atlantic. Power, S.B., et al. [1995,eng] 50-639
- Modelling the spread of oil spills in ice-infested waters. Venkatesh, S., et al. [1990,eng] 50-467
- New insights on large-scale oceanography in Fram Strait: the West Spitsbergen Current. Gascard, J.C., et al. [1995,eng] 50-1163
- Numerical model of flow in ice-covered channel. Yoon, J.Y., et al. [1996,eng] 50-2720
- Numerical modelling of ice jam resistance to main channel flow. Saadé, R.G., et al. [1995,eng] 50-6206
- Numerical modelling of North Atlantic Quaternary sedimentation. Haupt, B.J., et al. [1995,eng] 50-750
- Numerical prediction of sea surges and ice conditions on the Laptev and East-Siberian Sea. Ashik, I.M., [1995,eng] 50-2069
- Numerical simulation of the Martian polar cap breeze. Fernández, W., [1995,eng] 50-3672
- Nutrients in the Aral Sea in winter. Tsytsarin, A.G., [1995,eng] 50-5481
- Observational study of the katabatic wind confluence zone near Siple Coast, West Antarctica. Bromwich, D.H., et al. [1996,eng] 50-4157
- Occurrence of an algal bloom under arctic pack ice. Gradinger, R., [1996,eng] 50-4159
- Odor removal processes for ice-covered river runoff. Hrudey, S.E., et al. [1995,eng] 50-1524
- Of ocean waves and sea ice. Squire, V.A., et al. [1995,eng] 50-5241
- Oil pollution in Arctic waters. Futsaeter, G., et al. [1991,eng] 50-3421
- Oil pollution in ice covered seas. Arita, M., et al. [1996,jpn] 50-5899
- Oil spills in open and ice-infested waters: a comparative need for data on water currents. Venkatesh, S., [1995,eng] 50-5932
- On changes of air pressure during an ice age. Loewe, F., [1973,ger] 50-4617
- On the interannual variability of precipitation and runoff in the Mackenzie drainage basin. Björnsson, H., et al. [1995,eng] 50-2737
- Open-water and ice-jam flooding of a northern delta. Prowse, T.D., et al. [1994,eng] 50-5699
- Organic sedimentation in an arctic delta. Peulvé, S., et al. [1996,eng] 50-5819
- Origin and structure of a numerically simulated polar low over Hudson Bay. Albright, M.D., et al. [1995,eng] 50-2526
- Overview of the Arctic Ocean Expedition of 1991 (IAOE-91). Leck, C., et al. [1996,eng] 50-4312
- Ozone layer concentration over the Weddell Sea. Elanskii, N.F., et al. [1995,eng] 50-6328
- Paleoglaciology's grand unsolved problem. Grosvald, M.G., et al. [1995,eng] 50-453
- Penguin population dynamics in relation to sea ice distribution. Trathan, P.N., et al. [1996,eng] 50-5735
- Performance of lagoons experiencing seasonal ice cover. Price, D.S., et al. [1995,eng] 50-2124
- Perturbation-based finite element analyses of transmission line galloping. Desai, Y.M., et al. [1996,eng] 50-4291
- Phreatic water surface profiles along ice jams—an experimental study. Saadé, R.G., et al. [1996,eng] 50-6693
- Physical characteristics of arctic stratus clouds. Tsay, S.C., et al. [1984,eng] 50-4922
- Physical limnological processes under ice. Kenney, B.C., [1996,eng] 50-6578
- Pilot techniques during icing conditions. den Hertog, R., [1992,eng] 50-3795
- Plankton dynamics in the Barents Sea marginal ice zone. Hansen, B., et al. [1996,eng] 50-3528
- Pleistocene glaciation and the Earth's precession constant. Mitrovica, J.X., et al. [1995,eng] 50-517
- Pliocene climates: the nature of the problem. Crowley, T.J., [1996,eng] 50-6624
- Pollution distribution and hydrographic variability of the Kara Sea. Pavlov, V.K., et al. [1995,eng] 50-4557
- Possible consequences of glacially induced groundwater flow. Forsberg, C.F., [1996,eng] 50-5325
- Preconditioning the Greenland Sea for deep convection: ice formation and ice drift. Visbeck, M., et al. [1995,eng] 50-567
- Primary productivity and microbial variations in the Chukchi Sea. Coia, G.F., et al. [1996,eng] 50-5457
- Probability distributions for peak stage on rivers affected by ice jams. Tuthill, A.M., et al. [1996,eng] 50-4754
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 18th, Edmonton, Alberta, June 14-16, 1995. [1995,eng] 50-5715
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 19th, Calgary, Alberta, June 12-14, 1996. [1996,eng] 50-5551
- Proceedings. Arctic and Marine Oilspill Program Technical Seminar, 13th, Edmonton, Alberta, June 6-8, 1990. [1990,eng] 50-466
- Proceedings. International Experts' Meeting on Wind Power in Icing Conditions, Helsinki, Finland, 1992. Boreas-North Wind-Pohjatuli, [1992,eng] 50-3626
- Propagation of sound from a moving airborne source in an ice-covered ocean. Grudskii, S.M., et al. [1996,eng] 50-4626
- Radiocesium tracer profiles on Arctic Ocean ice islands. Smith, J.N., et al. [1995,eng] 50-4560
- Real time oil spill forecasting during an experimental oil spill in the arctic ice. Reed, M., et al. [1994,eng] 50-1685
- Release of brine-enriched shelf water from Storöfjord into the Norwegian Sea. Schauer, U., [1995,eng] 50-574
- Remote sensing of oil spills. Fingas, M.F., [1990,eng] 50-473
- Report on underwater noise. Davis, R.A., et al. [1991,eng] 50-3420
- Research on cold region river. Yamashita, S., [1994,jpn] 50-2832
- Response of a research aircraft to icing and evaluation of severity indices. Politovich, M.K., [1996,eng] 50-4406
- River ice control and fish habitat restoration: mutual interests and benefits. Lever, J.H., et al. [1995,eng] 50-3121
- Role of air-sea heat flux in Newfoundland Shelf sea temperature variability. Umoh, J.U., et al. [1995,eng] 50-4209
- Role of ice in the global water cycle. Lawford, R.G., [1993,eng] 50-5079
- Runup and overtopping of impulse waves on dams. Müller, D.R., [1995,ger] 50-858
- Satellite remote sensing of the Arctic Ocean and adjacent seas. Comiso, J.C., [1995,eng] 50-1160
- Satellite studies of pollution in the Barents and Kara seas. Kögeler, J., et al. [1995,eng] 50-4136
- Sea ice and sediment export from the Laptev Sea fluvial lead during 1991/92 winter season. Dethleff, D., [1995,eng] 50-2073
- Sea ice in the global climate system: requirements for an ocean observing system. Allison, I., et al. [1995,eng] 50-4248
- Sea ice over-flooding and oil spills in the Mackenzie Delta. Webb, R., [1995,eng] 50-5720
- Sea ice. Parkinson, C.L., [1996,eng] 50-4998
- Sea of Okhotsk near-freezing dichothermal layer variations. Yang, J.Y., et al. [1996,eng] 50-6219
- Seafloor-tethered sub-ice vertical acoustic array. Stevenson, J.M., et al. [1994,eng] 50-5173
- Seasonal aerosol variability in the arctic marine boundary layer. Leck, C., et al. [1996,eng] 50-4320
- Seasonal nitrogen cycles on Pluto. Hansen, C.J., et al. [1996,eng] 50-4347
- Seasonal simulation of the southern ocean coupled ice-ocean system. Häkkinen, S., [1995,eng] 50-2113
- Seasonal variability in high mountain lake water chemistry. Wögrath, S., et al. [1995,eng] 50-4077
- Seasonal variations in antarctic sea ice brine chemistry. Gleitz, M., et al. [1995,eng] 50-1117
- Sensitivity of numerical prognoses to antarctic sea ice distribution. Watkins, A.B., et al. [1995,eng] 50-2111
- Simulation of the mixed-layer circulation in the Arctic Ocean. Holland, D.M., et al. [1996,eng] 50-2843
- Small-scale physical processes in the Arctic Ocean. Padman, L., [1995,eng] 50-1162
- Snow and ice cover and climate sensitivity. Oerlemans, J., et al. [1995,eng] 50-3246
- Snow and sea ice correlation to Chinese summer air temperatures. Fu, C.B., [1983,eng] 50-4099
- Solar heating of the arctic mixed layer. Maykut, G.A., et al. [1995,eng] 50-2775
- Some effects of conductor twisting on galloping. Richardson, A.S., Jr., [1980,eng] 50-3698
- Sound reflection from ice cover. Kudriashov, V.M., [1996,eng] 50-4627
- Source of summer arctic atmospheric aerosols. Maenhaut, W., et al. [1996,eng] 50-4321
- Spring-bloom time-series at the Bering Sea ice edge pt.1. Niebauer, H.J., et al. [1995,eng] 50-1031
- SSM/I time series observations of Great Lakes ice and snow. Pilant, D., [1995,eng] 50-3107
- Stability of M_2 critical latitude in the Barents Sea. Furevik, T., et al. [1996,eng] 50-5262
- State of SO_2 on lo's surface. Kerton, C.R., et al. [1996,eng] 50-4257
- Storm surges in Canadian waters. Murty, T.S., et al. [1995,eng] 50-1854
- Study of H_2O contamination on a cooled optical surface. Guo, Q., et al. [1995,eng] 50-6527
- Subgrid parameterization of surface heat and momentum fluxes over polar oceans. Vihma, T., [1995,eng] 50-2110
- Summer air temperature in the nival-glacial belt of the Central Asian mountain massif. Lebedeva, I.M., [1993,rus] 50-4104
- Summer phytoplankton bloom under fast ice around Showa Station. Odate, T., et al. [1996,eng] 50-6037
- Suspended particulates and plankton during retreat of the marginal ice zone in the Bellingshausen Sea. Robins, D.B., et al. [1995,eng] 50-1026
- Technological problems of fisheries civil engineering in frozen seas. Nagano, A., et al. [1996,jpn] 50-5891
- Temperature evolution of a chemically stratified lake. Spiegel, R.H., et al. [1996,eng] 50-6333
- Temperature variability beneath Ronne Ice Shelf, Antarctica, from thermistor cables. Nicholls, K.W., [1996,eng] 50-2846
- Temporal weather impacts upon exterior intrusion detection systems. Ryerson, C.C., et al. [1995,eng] 50-4544
- Testing of ships in ice. Ryylin, A.I.A., et al. [1980,rus] 50-388
- Thermal regime of ice covered Swedish lakes. Bengtsson, L., et al. [1994,eng] 50-5696
- Thermohaline circulation of the Arctic Ocean and the Greenland Sea. Rudels, B., [1995,eng] 50-5234
- Three-layer model of flow under the ice cover in rivers. Debo'skii, V.K., et al. [1995,eng] 50-352
- Tidally forced under-ice Ekman layers observed by an acoustic Doppler current profiler. Marsden, R.F., et al. [1995,eng] 50-5933
- Underwater explosions beneath ice. Tanglis, E., et al. [1989,eng] 50-3836
- Use of dispersants in broken ice. Brown, H.M., et al. [1996,eng] 50-5553
- Use of surfactants in oil spill remediation in cold regions. Tumeo, M.A., et al. [1995,eng] 50-5723
- Using reed beds for winter operation of wetland treatment system for wastewater. Yin, H., et al. [1995,eng] 50-6067
- Vertical particle flux on the shelf off northern Spitsbergen, Norway. Andreassen, I., et al. [1996,eng] 50-6566
- Water column and sea-ice primary production during Austral spring in the Bellingshausen Sea. Boyd, P.W., et al. [1995,eng] 50-1027
- Water vapor saturation at low altitudes around Mars aphelion: a key to Mars climate? Clancy, R.T., et al. [1996,eng] 50-5831
- Water vapor transfer through a hydrophilic film at subzero temperatures. Oszcewski, R.J., [1996,eng] 50-4498
- WinOil: an oil spill model for Windows 95. McGillivray, D.G., et al. [1996,eng] 50-5555
- Winter ice in Okhotsk Sea and spring and summer climate in north Japan. Yamada, Y., [1996,jpn] 50-5903
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Mellor, R.A., et al. [1995,eng] 50-3127
- Winter methane dynamics in a temperate peatland. Mellor, R.A., et al. [1996,eng] 50-6052
- Winter tests of artillery firing into Eagle River Flats, Fort Richardson, Alaska. Collins, C.M., et al. [1995,eng] 50-391
- Winter-summer differences of carbon dioxide and oxygen in the Weddell Sea surface layer. Hoppema, M., et al. [1995,eng] 50-3006
- Ice cover strength**
- 10 meter scale (macro-crack): scale effects on the fracturing of sea ice. Dempsey, J.P., et al. [1995,eng] 50-6298
- 1995 perspective on global design ice loads. Kennedy, K.P., [1995,eng] 50-2937
- Abrasion mode of a circular cylindrical concrete structure due to sea ice movement. Itoh, Y., et al. [1995,eng] 50-191
- Abstracts. International Symposium on Okhotsk Sea and Sea Ice, 11th, Mombetsu, Hokkaido, Japan, Feb. 25-28, 1996. [1996,eng] 50-5872
- Application of ice cover mechanics in design and operations of marine structures. Riska, K., et al. [1995,eng] 50-6303
- Attempt to draw a scenario of ice/propeller interaction. Tamura, K., et al. [1996,eng] 50-4475
- Breakthrough loads of floating ice sheets: small-scale tests with urea model ice. Sodhi, D.S., [1995,eng] 50-2939
- Calculation of the strength of the ice cover during breakup of rivers. Ginzburg, B.M., et al. [1995,eng] 50-351
- Canadian Air Force ice strip requirements. [1982,eng] 50-4594
- Compressive failure of columnar saline ice under multiaxial loading. Schulson, E.M., [1995,eng] 50-6282
- Constitutive equations and fracture models for sea ice. Rodin, G.J., et al. [1995,eng] 50-6292
- Countermeasures to prevent sea ice from intruding into Saroma Lagoon. Ishikawa, S., et al. [1996,jpn] 50-5890

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- Crack nucleation mechanisms in columnar ice—recent developments. Gupta, V., et al. [1995,eng] 50-6281
- Creep of saline ice at low stresses and high temperatures. Richter-Menge, J.A., et al. [1995,eng] 50-179
- Definition of the loading regime on offshore structures from drifting ice covers. Bekker, A.T., et al. [1996,eng] 50-4463
- Deformation and failure of an ice cover at an ice-resistant structure. Danilenko, V.I., et al. [1995,eng] 50-2938
- Determination of the ice strength for calculation of the ice load. Bekker, A.T., et al. [1996,eng] 50-4462
- Distinct element modelling of seabed-ice rubble interaction. Evgin, E., et al. [1993,eng] 50-5597
- Ductile deformation of columnar saline ice under triaxial compressive loading. Melton, J.S., et al. [1995,eng] 50-2957
- Effect of size on distributed damage and fracture of sea ice. Bazant, Z.P., et al. [1995,eng] 50-6278
- Effects of prestressing on floating ice sheets. Quimby, T.B., et al. [1995,eng] 50-2943
- Engineering repercussions of ocean wave propagation in ice-infested seas. Squire, V.A., [1995,eng] 50-176
- Experimental investigations of the behavior of ice at the contact zone. Timco, G.W., et al. [1995,eng] 50-3807
- Experimental studies on ice forces on conical structures using segmented model. Kato, K., et al. [1996,jpn] 50-5875
- Experimental study of ice load on conical structures. Ohta, M., et al. [1996,jpn] 50-5877
- Experimental study of tearing toughness K_{IIIc} for fresh water ice. Li, G.W., et al. [1995,eng] 50-2974
- Field and laboratory experiments and modeling of the constitutive behavior of sea ice. Cole, D.M., [1995,eng] 50-6280
- Flaking tests to measure large scale strength of ice. Jones, S.J., et al. [1996,eng] 50-4430
- High frequency acoustic response of sea ice to single load cycles: a preliminary analysis. Langhorne, P.J., et al. [1995,eng] 50-2940
- Ice loads on fixed and floating structures: panel report. Croasdale, K.R., et al. [1995,eng] 50-6300
- Ice processes at the 1 km scale. Hopkins, M.A., et al. [1995,eng] 50-6297
- Ice studies on the northern Sakhalin offshore. Truskov, P.A., et al. [1995,eng] 50-6316
- Ice surface oscillation measurements on SIMI using strain, heave and tilt sensors. Wadhams, P., et al. [1995,eng] 50-6306
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995,eng] 50-195
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995,eng] 50-2942
- Ice-structure interaction research and arctic development. Kennedy, K.P., et al. [1995,eng] 50-6304
- Ice-structure interaction under slippage boundary conditions. Matskevich, D.G., [1995,eng] 50-2936
- Impact ice load acting on flat plate due to wave action. Hanada, M., et al. [1996,jpn] 50-5880
- Investigation of sea ice shear properties. Zanegin, V.G., et al. [1990,eng] 50-101
- Local pressure characteristics by indenter with segmented local ice pressure panels. Kamesaki, K., et al. [1996,jpn] 50-5876
- Measurements of crack velocity in sea ice using electromagnetic techniques. Petrenko, V.F., et al. [1995,eng] 50-6291
- Method of estimating sea ice flexural strength based on hydrometeorological data. Gavrilov, V.P., et al. [1995,eng] 50-214
- Model of mesoscale motions of ice caused by convective flows. Goldshtein, R.V., et al. [1995,eng] 50-2948
- Models of ice-structure contact for engineering applications. Riska, K., [1995,eng] 50-3808
- NRC centre for ice loads on Beaufort Sea structures. Timco, G.W., [1996,eng] 50-3238
- Numerical simulation of arctic pressure ridging. Hopkins, M.A., [1995,eng] 50-6289
- On dynamics of ice-structure interaction. Kajaste-Rudnitski, J., [1995,eng] 50-4169
- On the indentation of a blunt ice wedge. Selvadurai, A.P.S., et al. [1995,eng] 50-180
- Pack ice stresses and their relationship to regional deformation. Richter-Menge, J.A., et al. [1995,eng] 50-6287
- Panel report on 100 km scale (pack ice). Coon, M.D., et al. [1995,eng] 50-6295
- Panel report on the 10 km scale—floe cluster. Overland, J.E., et al. [1995,eng] 50-6296
- Particle model for quasibrittle fracture and application to sea ice. Jirásek, M., et al. [1995,eng] 50-495
- Physical processes in ice cover. Smirnov, V.N., et al. [1995,eng] 50-6315
- Physically based constitutive modeling of ice. Connor, J.J., et al. [1995,eng] 50-6288
- Physically-based constitutive modeling of ice: damage and failure. Wu, M.S., et al. [1995,eng] 50-6293
- Potential resistance of the Kara Sea ice cover. Gavrilov, V.P., et al. [1995,eng] 50-185
- Proceedings. Vol. 2. International Offshore and Polar Engineering Conference, 5th, Hague, Netherlands, June 11-16, 1995, [1995,eng] 50-175
- Proceedings. Volume IV. Arctic/polar technology. International Conference on Offshore Mechanics and Arctic Engineering (OMAE), 14th, Copenhagen, Denmark, June 18-22, 1995, [1995,eng] 50-2935
- Proceedings. Sea Ice Mechanics and Arctic Modeling Workshop, Anchorage, AK, Apr. 25-28, 1995, [1995,eng] 50-6271
- Recent advances in ice interaction and force estimation processes for vertical structures. Arunachalam, A.V.M., [1995,eng] 50-197
- Regional and floe-floe deformation. Overland, J.E., et al. [1995,eng] 50-6286
- Ridging and strength in modeling the thickness distribution of arctic sea ice. Flato, G.M., et al. [1995,eng] 50-570
- Scale effects on the fracture and constitutive behavior of sea ice. Dempsey, J.P., et al. [1995,eng] 50-6279
- Sea ice data report. Kovacs, A., et al. [1970,eng] 50-3854
- Sea ice landing strip for Boeing-727 in northern Greenland. Sinha, N.K., [1995,eng] 50-2973
- Sea Ice Mechanics Initiative (SIMI) geophone/hydrophone system. Stein, P.J., et al. [1995,eng] 50-6277
- Sea Ice Mechanics Initiative (SIMI) summary plan. FY94-95. [1995,eng] 50-6294
- Sea ice mechanics related to thermally-induced stresses and fracturing in pack ice. Lewis, J.K., et al. [1995,eng] 50-6290
- Sea ice mechanics research. Coon, M.D., et al. [1995,eng] 50-6284
- Self-excited oscillations in ice floes and icebergs. Smirnov, V.N., et al. [1995,eng] 50-2946
- Series of model tests in ice of ice-going cargo ships for future traffic in the Northern Sea Route. Ishikawa, S., et al. [1996,eng] 50-4472
- Shear strength of ice rubble in laboratory tests. Lehmus, E., et al. [1995,eng] 50-181
- SIMI (Sea Ice Mechanics Initiative) panel on the 1cm-1m scale. Schulson, E.M., et al. [1995,eng] 50-6299
- Simulation of sea ice behaviour—a parametric study. Evgin, E., et al. [1995,eng] 50-2952
- Simulation of ship transit for Baltic ice conditions. La Prairie, D., et al. [1995,eng] 50-4583
- Simulation of ship-ice collision dynamics. Phillips, L.D., [1994,eng] 50-5670
- Simulation of the ice-structure interaction under the parabolic strength criterion for ice. Matskevich, D.G., [1995,eng] 50-190
- Statistics of ice-structure interaction. Kajaste-Rudnitski, J., [1995,eng] 50-199
- Stresses in sea ice in the neighboring force interaction zone. Nikitin, V.A., et al. [1995,eng] 50-5522
- Structure and flexural strength of sea ice and consolidation of pressure ridges. Shapiro, L.H., et al. [1995,eng] 50-6283
- Structure of internal stresses in the uncompacted ice cover. Sukhorukov, K.K., [1995,eng] 50-193
- Study of dynamic effects on icebreaking in 2-dimension: computations and components of icebreaking load. Yamaguchi, H., et al. [1996,eng] 50-4469
- Study of dynamic effects on icebreaking in 2-dimension: experiment. Usami, A., et al. [1996,eng] 50-4468
- Surface wave diffraction at a system of cracks in the ice cover. Goldshtein, R.V., et al. [1995,eng] 50-2949
- Theory of ice jams. Beltaos, S., [1995,eng] 50-787
- Thickness and fracture toughness of freshwater ice. Chang, C., et al. [1995,eng] 50-2975
- Uniaxial compressive strength of sea ice in Okhotsk Sea. Masaki, T., et al. [1996,jpn] 50-5888
- Uniaxial constant compressive stress creep tests on sea ice. Sinha, N.K., et al. [1995,eng] 50-3000
- Using sea ice as ice platforms and ice roads in fishery harbors. Okubo, Y., et al. [1996,jpn] 50-5889
- Variation of local pressures during ice-structure interaction. Johnston, M., [1994,eng] 50-376
- Velocity dependence of ice failure load in a 2-dimensional ship model. Adachi, M., et al. [1996,eng] 50-5878
- Yield conditions of an assembly of discrete ice floes. Sayed, M., et al. [1995,eng] 50-182
- See [also]: Ice strength
- Ice cover thickness**
- 1991 ice jamming along the Saint John River: a case study. Beltaos, S., et al. [1996,eng] 50-5809
- 1994/95 winter ice in the Baltic Sea between the Ems and the Oder rivers. Strübing, K., [1995,ger] 50-4535
- Abstracts. International Symposium on Okhotsk Sea and Sea Ice, 11th, Mombetsu, Hokkaido, Japan, Feb. 25-28, 1996, [1996,eng] 50-5872
- Apparatus for measuring ice distribution profiles. Gerardi, J.J., et al. [1995,eng] 50-3482
- Arctic sea ice extent and thickness. Wadhams, P., [1995,eng] 50-5235
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Build-up, decay and role of the sea-ice cover of the Liefdefjord, NW Spitsbergen. King, L., et al. [1994,ger] 50-1596
- Can the Northern Sea Route be profitable. Schwarz, J., [1996,eng] 50-4490
- Canadian Air Force ice strip requirements. [1982,eng] 50-4594
- Characteristics of freezing in five lakes within the jurisdiction of Kushiro. Tokairin, A., [1996,eng] 50-5908
- Characteristics of surface roughness associated with leading-edge ice accretion. Shin, J.W., [1996,eng] 50-4407
- Climate simulations with a global atmosphere-ocean model. pt.1. Lunkeit, F., et al. [1996,eng] 50-4090
- Comparisons between the Okhotsk Sea and the Baltic Sea ice. Shirasawa, K., et al. [1996,eng] 50-5904
- Condensation of cometary ice analogs. Patnaik, A., et al. [1996,eng] 50-6222
- Condensation on cooled surfaces of optical devices at the cosmic conditions. Drobyshev, A., et al. [1992,eng] 50-624
- Cool thermal discharges from ice melting with specified heat fluxes on the boundary. Yeh, H.M., et al. [1996,eng] 50-5521
- Decadal oscillations driven by the annual cycle in a zonally-averaged coupled ocean-ice model. Yang, J.Y., et al. [1996,eng] 50-3069
- Degradation of Arctic ice cap islands from climatic warming. Ignat'eva, I.I.U., et al. [1993,rus] 50-883
- Development of a Baltic Sea ice climate model. Leppäranta, M., et al. [1994,eng] 50-3202
- Development of a portable ice-thickness measuring instrument. Glynn, D.P., et al. [1992,eng] 50-4908
- Device for measuring the thickness of ice cover. Narov, N.A., et al. [1992,rus] 50-1930
- Disposition of solar radiation in sea ice and the upper ocean. Ebert, E.E., et al. [1995,eng] 50-572
- Distribution of seasonal net production of sea ice on the Arctic Ocean. Kakuta, S., et al. [1996,eng] 50-5894
- Effects of individual ridging events on the ice thickness distribution in the arctic ice pack. Hopkins, M.A., [1996,eng] 50-3828
- Electromagnetic induction sounding of sea ice thickness. Kovacs, A., et al. [1996,eng] 50-4959
- Estimating sea ice thickness from impulse radar sounding time of flight data. Kovacs, A., et al. [1992,eng] 50-61
- Expert system for automated interpretation of ground penetrating radar data. Lee, S., et al. [1992,eng] 50-62
- Flaking tests to measure large scale strength of ice. Jones, S.J., et al. [1996,eng] 50-4430
- Fluctuations of thin ice area in the Sea of Okhotsk. Enomoto, H., [1996,jpn] 50-5897
- Freshwater impact on Hudson Bay ecosystems under sea ice. pt.1. Ingram, R.G., et al. [1996,eng] 50-4019
- Global warming cuts no ice in Greenland. Gribbin, J., [1995,eng] 50-1966
- Greenland ice sheet thickness changes measured by laser altimetry. Krabill, W., et al. [1995,eng] 50-751
- Ground penetrating radar. Pilon, J.A., ed. [1992,eng] 50-54
- Heat flux through Weddell Sea ice cover. Lytle, V.I., et al. [1996,eng] 50-5263
- Hindsight on river ice jam stability. Beltaos, S., [1996,eng] 50-6425
- Ice algae biomass variations around Zhongshan Station. He, J.F., et al. [1995,chi] 50-3642
- Ice effects on Mackenzie River hydraulics at the outlet of Great Slave Lake. Chen, X.B., [1993,eng] 50-377
- Ice thickness data, winter 1992-1993. [1995,eng] 50-985
- Ice thickness data, winter 1993-1994. Final issue. [1996,eng] 50-3711
- Ice thickness measurement reflectometer. Glynn, D.P., et al. [1995,eng] 50-3478
- Ice thickness on Lewis Cliff Ice Tongue, 1993-1994. Echelmeyer, K., et al. [1994,eng] 50-1887
- Ice-ocean seasonal cycle and climate response in Hudson Bay. Soucier, F.J., et al. [1995,eng] 50-5931
- Ice-sheet growth and high-latitudes sea-surface temperature. Berger, A., et al. [1996,eng] 50-5862
- Ice/snow thickness measuring system. Tank, C.L., et al. [1995,eng] 50-716
- Icebreaker transit analysis for a voyage across the Arctic Ocean. Brigham, L.W., [1996,eng] 50-4460
- Impulse radar studies of interface roughness. Jezek, K.C., et al. [1992,eng] 50-60
- Influence of ice conditions on NSR transit sailing. Vefsnmo, S., et al. [1996,eng] 50-4459
- Investigation of the general circulation of the Arctic Ocean using an isopycnal model. Holland, D.M., et al. [1996,eng] 50-3822
- JAMSTEC coupled model of arctic sea-ice and ocean. Kakuta, S., et al. [1996,eng] 50-4478
- Joint probability of environmental loads on marine structures. Liu, D.F., et al. [1995,eng] 50-196
- Lake ice and its remote sensing monitoring in the Tibetan Plateau. Chen, X.Z., et al. [1995,chi] 50-5634
- Long-term trend in sea ice thickness variation in the Arctic basin. Nagurnyi, A.P., [1995,eng] 50-5479
- Measurements of the underside topography of sea ice by moored subsea sonar. Melling, H., et al. [1995,eng] 50-160
- Method and apparatus for remote detection and thickness measurement of ice or liquid layer. Gagnon, R.E., [1995,eng] 50-3483
- Method for continuous measurement of ice cover thickness. Nordell, B., et al. [1995,eng] 50-1145
- Method of estimating sea ice flexural strength based on hydrometeorological data. Gavrilov, V.P., et al. [1995,eng] 50-214
- Modeling of ice thickness in manure pits. Carrier, D., et al. [1995,fre] 50-5658
- Modelling arctic climate change. Cattle, H., et al. [1995,eng] 50-5227
- Modelling interannual sea ice variability in the Gulf of St. Lawrence. DeTrocy, B., [1993,eng] 50-375
- Monitoring lead dynamics with ERS-1 synthetic aperture radar imagery. Wackerman, C.C., et al. [1994,eng] 50-1512
- Morphological characteristics of large deposits of ground ice in central Yamal. Parmuzin, S.I.U., et al. [1983,rus] 50-311
- Neogloboquadrina pachyderma distribution in the sea ice of Lützow-Holm Bay. Igarashi, A., et al. [1996,eng] 50-6036
- Numerical model simulation of a summer reversal of the Beaufort gyre. Preller, R.H., et al. [1989,eng] 50-4706
- Numerical modelling of ice sheet fluctuation in the Russian Arctic. Siegert, M.J., et al. [1995,eng] 50-1800

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- Numerical simulation of river ice processes. Shen, H.T., et al. [1995,eng] 50-355
- Observation of momentum and heat transfers between ocean and atmosphere in the Chukchi Sea. Sasaki, Y., et al. [1996,eng] 50-4479
- Observations on a plug of old sea ice in the entrance to Nansen Sound, Ellesmere Island. Sadler, H.E., et al. [1981,eng] 50-46
- On the structure of pressured sea ice. Kovacs, A., [1970,eng] 50-3835
- Overview of recent program on mechanical properties of sea ice. Cole, D.M., et al. [1995,eng] 50-1842
- Phreatic water surface profiles along ice jams—an experimental study. Saadé, R.G., et al. [1996,eng] 50-6693
- Precipitation and river runoff in an ice-ocean model of the Arctic. Weatherly, J.W., [1994,eng] 50-675
- Prediction model for complete ice cover formation in partly open water. Sasaki, N., et al. [1996,eng] 50-4480
- Problem of choice of the design parameters for ice thickness. Polomoshnov, A.M., et al. [1996,eng] 50-5901
- Products of subglacial volcanic eruptions under different ice thicknesses. Smellie, J.L., et al. [1994,eng] 50-2993
- Propagation of sound from a moving airborne source in an ice-covered ocean. Grudskii, S.M., et al. [1996,eng] 50-4626
- Quaternary geology and cryogenic structure of Taymyr. Dereviagin, A.I.U., et al. [1996,rus] 50-6375
- Radar design for geophysical sounding. Oswald, G.K.A., [1992,eng] 50-64
- Research of the ice climatology of the Baltic Sea. Leppäranta, M., et al. [1996,eng] 50-5905
- Research on the glaciation of the Larsemann Hills, East Antarctica. Li, S.K., [1995,chi] 50-3641
- Retrieval of thin ice thickness from multifrequency polarimetric SAR data. Kwok, R., et al. [1995,eng] 50-349
- Review of modelling the thermodynamics of floating ice. Savage, S.B., et al. [1996,eng] 50-6488
- Ridging and strength in modeling the thickness distribution of arctic sea ice. Flato, G.M., et al. [1995,eng] 50-570
- Salient features of the design of large arctic ships with a restricted draft. Tsai, L.G., [1996,eng] 50-4431
- Satellite SAR identification of lake water resources on the North Slope. Jeffries, M.O., et al. [1996,eng] 50-6177
- Sea ice and snow thickness in antarctic seas, winter 1993-94. Jeffries, M.O., et al. [1995,eng] 50-6504
- Sea ice in the global climate system: requirements for an ocean observing system. Allison, I., et al. [1995,eng] 50-4248
- Search for proxy indicators of young sea ice thickness. Zabel, I.H.H., et al. [1996,eng] 50-4303
- Seasonal variability of sea ice sizes and thickness on the northern Sakhalin shelf. Polomoshnov, A.M., et al. [1995,eng] 50-189
- Series of model tests in ice of ice-going cargo ships for future traffic in the Northern Sea Route. Ishikawa, S., et al. [1996,eng] 50-4472
- Shipboard observations of ice conditions off the Okhotsk Sea coast. Shimoda, H., et al. [1996,jpn] 50-5898
- Short term variations of sea ice cover. Chouinard, L.E., et al. [1995,eng] 50-186
- Simulation of the seasonal arctic sea ice cover with a dynamic thermodynamic sea-ice model. Holland, D.M., et al. [1993,eng] 50-5186
- Snow cover on winter sea ice of Amundsen and Ross seas. Sturm, M., et al. [1995,eng] 50-6505
- Solar heating of the arctic mixed layer. Maykut, G.A., et al. [1995,eng] 50-2775
- Space-time distribution of temperature inversions in the arctic atmospheric boundary layer. Nagurnyi, A.P., [1995,eng] 50-2728
- Structure and flexural strength of sea ice and consolidation of pressure ridges. Shapiro, L.H., et al. [1995,eng] 50-6283
- Study of multi-year pressure ridges and shore ice pile-up. Kovacs, A., [1975,eng] 50-855
- Study of the morphology of a discontinuous section of a first year arctic pressure ridge. Bowen, R.G., et al. [1996,eng] 50-3829
- Submarine topographical chart around Filchner-Ronne Ice Shelf. Vaughan, D.G., et al. [1995,eng] 50-5443
- Thermal ice ridges or ramps in Lake Kussharo. Toukairin, A., [1996,eng] 50-5909
- Thickness of summer Arctic Ocean multiyear ice. Eicken, H., et al. [1995,eng] 50-2112
- Two-year simulation of the Great Lakes region with a coupled modeling system. Bates, G.T., et al. [1995,eng] 50-1566
- Ultrasonic measurement of melting ice heat transfer coefficients. Bhansali, A.P., et al. [1996,eng] 50-6760
- Use of ERS-1 SAR data in numerical sea ice modeling. Leppäranta, M., et al. [1992,eng] 50-222
- Winter 1994 weather and ice conditions for the Laurentian Great Lakes. Assel, R.A., et al. [1996,eng] 50-3294
- See [also]: Glacier thickness
- Ice cracks**
- 10 meter scale (macro-crack): scale effects on the fracturing of sea ice. Dempsey, J.P., et al. [1995,eng] 50-6298
- Acoustic and seismic studies of ice mechanics. Farmer, D., et al. [1995,eng] 50-6272
- Acoustic tomography of ice cracking and ridging. Rajan, S.D., [1995,eng] 50-6275
- Classification of arctic cloud and sea ice features in multi-spectral satellite data. Key, J.R., [1994,eng] 50-4357
- Constitutive equations and fracture models for sea ice. Rodin, G.J., et al. [1995,eng] 50-6292

- Contact force and damage evolution in a moving uniaxial ice bar. Shin, J.G., et al. [1990,eng] 50-99
- Crack nucleation in columnar ice—recent developments. Gupta, V., et al. [1995,eng] 50-2958
- Crack nucleation mechanisms in columnar ice—recent developments. Gupta, V., et al. [1995,eng] 50-6281
- Crack velocities in freshwater and saline ice. Petrenko, V.F., et al. [1996,eng] 50-5299
- Effect of size on distributed damage and fracture of sea ice. Bažant, Z.P., et al. [1995,eng] 50-6278
- Effects of floating ice cracks on propagation of flexural waves. Bukatov, A.E., et al. [1996,eng] 50-3410
- Elastic fracture mechanics and fracture propagation in rock and ice. Fischer, M.P., [1994,eng] 50-696
- Electromechanical phenomena in ice. Petrenko, V.E., [1996,eng] 50-4546
- Experimental study of tearing toughness K_{Ic} for fresh water ice. Li, G.W., et al. [1995,eng] 50-2974
- High frequency acoustic response of sea ice to single load cycles: a preliminary analysis. Langhorne, P.J., et al. [1995,eng] 50-2940
- Ice microcracking due to grain boundary sliding. Elvin, A.A., et al. [1996,eng] 50-4185
- Ice processes at the 1 km scale. Hopkins, M.A., et al. [1995,eng] 50-6297
- Measurements of crack velocity in sea ice using electromagnetic techniques. Petrenko, V.F., et al. [1995,eng] 50-6291
- Model of shoreward movement of grounded lake ice. Sasaki, T., et al. [1995,eng] 50-3329
- Models of ice-structure contact for engineering applications. Riska, K., [1995,eng] 50-3808
- Nonlinear acoustic effects due to cracks in ice cover. Ekimov, A.E., et al. [1996,eng] 50-5291
- On the modelling of ice cover fracture. Slepian, L.I., [1990,eng] 50-94
- Panel report on 100 km scale (pack ice). Coon, M.D., et al. [1995,eng] 50-6295
- Physically based constitutive modeling of ice. Connor, J.J., et al. [1995,eng] 50-6288
- Physically-based constitutive modeling of ice: damage and failure. Wu, M.S., et al. [1995,eng] 50-6293
- Pipe rigidity as a failure index under explosive loads. Abd El Halim, A.O., et al. [1996,eng] 50-5047
- Proceedings of the First European Offshore Mechanics Symposium, 1990. European Offshore Mechanics Symposium, First, Trondheim, Norway, Aug. 20-22, 1990. [1990,eng] 50-93
- Proceedings. Volume IV. Arctic/polar technology. International Conference on Offshore Mechanics and Arctic Engineering (OMAE), 14th, Copenhagen, Denmark, June 18-22, 1995. [1995,eng] 50-2935
- Proceedings. Sea Ice Mechanics and Arctic Modeling Workshop. Anchorage, AK, Apr. 25-28, 1995. [1995,eng] 50-6271
- Proceedings. Workshop on Future Directions in Snow and Ice Research. Gallatin Gateway, MT, Oct. 3-4, 1995. [1995,eng] 50-4623
- Scale effects on the fracture and constitutive behavior of sea ice. Dempsey, J.P., et al. [1995,eng] 50-6279
- Sea ice failure mechanisms. Pritchard, R.S., [1995,eng] 50-6274
- Sea Ice Mechanics Initiative (SIMI) geophone/hydrophone system. Stein, P.J., et al. [1995,eng] 50-6277
- Sea Ice Mechanics Initiative (SIMI) summary plan, FY94-95. [1995,eng] 50-6294
- Sea ice mechanics related to thermally-induced stresses and fracturing in pack ice. Lewis, J.K., et al. [1995,eng] 50-6290
- Seismic activity of landfast ice. Nikitin, V.A., et al. [1995,eng] 50-188
- Seismo-acoustic remote sensing of ice-mechanical processes in the Arctic. Schmidt, H., et al. [1995,eng] 50-6276
- Self-excited oscillations in ice floes and icebergs. Smirnov, V.N., et al. [1995,eng] 50-2946
- SIMI (Sea Ice Mechanics Initiative) panel on the 1cm-1m scale. Schulson, E.M., et al. [1995,eng] 50-6299
- Simulation of sea ice behaviour—a parametric study. Evgin, E., et al. [1995,eng] 50-2952
- Surface wave diffraction at a system of cracks in the ice cover. Goldshtein, R.V., et al. [1995,eng] 50-2949
- Thickness and fracture toughness of freshwater ice. Chang, C., et al. [1995,eng] 50-2975
- Variation in ice strength at its interaction with ice and structures. Krasnov, I.U.N., [1990,eng] 50-97
- Ice creep**
- Antarctic journal of the United States, vol.28, no.4. [1993,eng] 50-138
- Assessment of rock glacier sliding velocity. Whalley, W.B., et al. [1995,eng] 50-2809
- Borehole penetration and expansion devices for ice testing. Ladanyi, B., [1996,eng] 50-5048
- Compressive creep of polycrystalline ice containing a liquid phase. de la Chapelle, S., et al. [1995,eng] 50-595
- Compressive failure of columnar saline ice under multiaxial loading. Schulson, E.M., [1995,eng] 50-6282
- Constitutive equations and fracture models for sea ice. Rodin, G.J., et al. [1995,eng] 50-6292
- Creep of ice crystals and the measurement of strain: some technical considerations. Barrette, P.D., et al. [1995,eng] 50-2962
- Creep of saline ice at low stresses and high temperatures. Richter-Menge, J.A., et al. [1995,eng] 50-179

- Deformation of ice under low stresses. Sego, D.C., et al. [1982,eng] 50-3787
- Effect of X-radiation on the plastic deformation of ice. Hu, X.H., et al. [1996,eng] 50-5866
- Electromechanical phenomena in ice. Petrenko, V.E., [1996,eng] 50-4546
- Field and laboratory experiments and modeling of the constitutive behavior of sea ice. Cole, D.M., [1995,eng] 50-6280
- Finite element analysis of the creep of debris containing thin ice bodies. Azizi, F., et al. [1995,eng] 50-183
- High frequency acoustic response of sea ice to single load cycles: a preliminary analysis. Langhorne, P.J., et al. [1995,eng] 50-2940
- Mathematical model of spray ice island creep. Thiel, D.T., et al. [1991,eng] 50-1720
- Method to calculate pack ice driving forces. Evgin, E., et al. [1995,eng] 50-1283
- Movement of the ice shelf at Maudheim. Swithinbank, C., [1958,eng] 50-6525
- Multiaxial creep of saline ice. Golubov, A.I., et al. [1990,eng] 50-102
- New flow law of ice-sheet ice. Azuma, N., [1995,jpn] 50-991
- Observations of pressure effects on the creep of ice single crystals. Cole, D.M., [1996,eng] 50-4901
- Overview of recent program on mechanical properties of sea ice. Cole, D.M., et al. [1995,eng] 50-1842
- Physically based constitutive modeling of ice. Connor, J.J., et al. [1995,eng] 50-6288
- Sea ice mechanics related to thermally-induced stresses and fracturing in pack ice. Lewis, J.K., et al. [1995,eng] 50-6290
- South Pole wanders from the straight and narrow. Kiernan, V., [1996,eng] 50-4216
- Stability of water flow in glaciers. Szilder, K., et al. [1996,eng] 50-6436
- Uniaxial constant compressive stress creep tests on sea ice. Sinha, N.K., et al. [1995,eng] 50-3000
- Unified viscoplastic model for the inelastic behavior of ice. Lee, J.H., et al. [1996,eng] 50-6176
- Ice crystal adhesion**
- Analytical study of frost nucleation and growth during the crystal growth period. Şahin, A.Z., [1995,eng] 50-44
- Characteristics of the aggregation of needle snow crystals. Kajikawa, M., [1995,jpn] 50-3509
- Convective heat transfer of rotating ice spheroids: rough hailstones. Zheng, G.G., et al. [1996,eng] 50-6471
- Measurement of falling velocity of rimed snowflakes. Ishizaka, M., [1995,jpn] 50-1171
- On snow crystals with small raindrops observed in Greenland. Harimaya, T., et al. [1993,eng] 50-6039
- On the embryo in graupel particles observed in Greenland. Harimaya, T., et al. [1992,eng] 50-6643
- Scavenging of gases during growth of ice crystals. Santachiara, G., et al. [1995,eng] 50-2470
- Simulation of wet-snow accretion by axial growth on a transmission line conductor. Poots, G., et al. [1995,eng] 50-2349
- Ice crystal collision**
- Atmospheric electricity and charge transfer from temperature gradients in ice. Latham, J., [1967,eng] 50-5786
- Characteristics of the aggregation of needle snow crystals. Kajikawa, M., [1995,jpn] 50-3509
- Comment on paper by Avila et al. Jayaratne, R., et al. [1996,eng] 50-5454
- Effect of air bubbles in ice on charge transfer produced by asymmetric rubbing. Latham, J., [1965,eng] 50-3951
- Electrification of frost deposits. Vonnegut, B., [1965,eng] 50-3948
- Mass dependence of energy loss in collisions of icy spheres: an experimental study. Dilley, J., et al. [1996,eng] 50-5196
- Possible high ice particle production during graupel-graupel collisions. Takahashi, T., et al. [1995,eng] 50-3005
- Radar observation of cloud electrification during thunderstorms. Jameson, A.R., et al. [1996,eng] 50-3965
- Role of ice geometry and impact velocity in thunderstorm electrification. Latham, J., et al. [1965,eng] 50-3949
- Supercell simulations with simple ice parameterization. Tartaglione, N., et al. [1996,eng] 50-3709
- Temperature dependence of static charging in ice growing by riming. Avila, E.E., et al. [1995,eng] 50-3004
- Thunderstorm electrification analysis: the dependence on the temperature-LWC diagram. Scavuzzo, C.M., et al. [1996,eng] 50-3342
- Thunderstorm electrification. Saunders, C.P.R., [1995,eng] 50-4075
- Ice crystal growth**
- Action of HPLC6 antifreeze polypeptide in solution. Brooke-Taylor, C.A., et al. [1996,eng] 50-5298
- Analytical study of frost nucleation and growth during the crystal growth period. Şahin, A.Z., [1995,eng] 50-44
- Annealing effects on the internal friction of artificial ice single crystals. Oguro, M., et al. [1981,jpn] 50-5792
- Characteristics of the crystallization of water in unsaturated soils. Golubev, V.N., [1996,rus] 50-6810
- Comments on "Production of ice particles in clouds due to aircraft penetrations". Mossop, S.C., et al. [1984,eng] 50-4917
- Cryomicroscopic determination of ice crystal growth in the system 2,4-pentanediol/water. Mehl, P.M., [1996,eng] 50-2744
- Crystallization of ice in glycerol solutions, pt.1. Hey, J.M., et al. [1996,eng] 50-5813

Ice crystal nuclei

- Dynamical processes of dislocations and point defects in ice crystal. Higashi, A., et al. [1985,jpn] 50-5793
- Effect of sea ice frost flowers on infrared surface observations. Martin, S., et al. [1996,eng] 50-5858
- Effects of high voltage on the structure of ice. Farzaneh, M., et al. [1996,eng] 50-5387
- Electrical properties of ice. Gross, G.W., [1970,eng] 50-5754
- Electrification mechanisms of snow crystals (Part I). Endoh, T., [1981,eng] 50-5790
- Electrification mechanisms of snow crystals (Part III). Endoh, T., [1981,eng] 50-5799
- Explicit cloud physics parameterization for operational numerical weather prediction. Schultz, P., [1995,eng] 50-1529
- Field observations of sun crust formation in Hokkaido, Japan. Ozeki, T., et al. [1996,eng] 50-5500
- Formation mechanism of side branches of dendritic ice crystals grown from vapor. Gonda, T., et al. [1996,eng] 50-5193
- Formation of ice between hydrotalcite particles measured by thermoporometry. Trübler, M.K., et al. [1996,eng] 50-6330
- Frazil evolution in channels. Hammar, L., et al. [1995,eng] 50-647
- Freshwater spongy spray icing model with surficial structure. Blackmore, R.Z., et al. [1996,eng] 50-5335
- Grain multiplication mechanism for sea ice transition zone formation. Wei, Y.C., et al. [1995,eng] 50-1143
- Hail prevention in southwestern France. Dessens, J., [1986,eng] 50-4912
- HIPEX-1: experimental design and response variables. Smith, P.L., et al. [1984,eng] 50-4918
- Ice forming nuclei in the high Arctic. Bigg, E.K., [1996,eng] 50-4317
- Ice-crystal fogs of central Sakha. Osipov, D.A., [1995,eng] 50-4702
- Influence of temperature on crystallization of lactose in ice-cream. Livney, Y.D., et al. [1995,eng] 50-2745
- Internal melt figures in Japanese pond ice and microparticles in antarctic ice cores. Higashi, A., [1996,jpn] 50-4931
- Kinetics of ice nucleation initiated by molecular crystals. Iatimirska, V.K., et al. [1995,eng] 50-3815
- Kinetics of the freezing of water in dispersed soils (experiment, theory). Grechishchev, S.E., et al. [1996,rus] 50-6811
- Large eddy simulation of the turbulent flow in a marine convective boundary layer with snow. Rao, G.S., et al. [1996,eng] 50-3683
- Low temperature ecology of a plant root bacterium. Sun, X.Y., et al. [1995,eng] 50-2733
- Mixed-phase cloud scheme based on a single prognostic equation. Tremblay, A., et al. [1996,eng] 50-6665
- Molecular dynamics simulation of ice crystal growth. Nada, H., et al. [1996,jpn] 50-4932
- Molecular dynamics simulation studies on ice: interatomic models. Kawamura, K., [1996,jpn] 50-6733
- Natural ice nucleus measurement under high supersaturation. Mizuno, H., et al. [1995,eng] 50-3719
- Observation of snow crystals in Antarctica and Greenland. Harada, K., [1995,eng] 50-4385
- On the formation of electron depletions at the summer polar mesopause. Klottermeyer, J., [1996,eng] 50-3600
- On the global variation of precipitating layer clouds. Ryan, B.F., [1996,eng] 50-3293
- Parameterization of cloud ice crystal conversion processes. pt.1. Harrington, J.Y., et al. [1995,eng] 50-3260
- Perspectives of plant cold tolerance: physiology and molecular responses. Kaye, C., et al. [1995,eng] 50-4085
- Phase equilibria in extended simple point charge ice-water systems. Báez, L.A., et al. [1995,eng] 50-2606
- Phase equilibrium of soil water on the cryolithosphere. Kononov, A.A., [1996,rus] 50-6812
- Physical interpretation of results from the HIPEX-1 experiment. Cooper, W.A., et al. [1984,eng] 50-4920
- Positive ion depletion in a noctilucent cloud. Balsiger, F., et al. [1996,eng] 50-3604
- Possible high ice particle production during graupel-graupel collisions. Takahashi, T., et al. [1995,eng] 50-3005
- Quartzlike polymorph of ice. Svishtchev, I.M., et al. [1996,eng] 50-4412
- Rain production in convective clouds, pt.2. Reisin, T., et al. [1996,eng] 50-6325
- Rapid glaciation of slightly supercooled cumulus clouds. Mason, B.J., [1996,eng] 50-5010
- Recent molecular dynamics simulation studies on ice: vibrational spectra of ice. Itoh, H., [1996,jpn] 50-4938
- Relationship of tropospheric dry layers to freezing precipitation type. Smith, G., [1995,eng] 50-6684
- Scavenging of gases during growth of ice crystals. Santachiara, G., et al. [1995,eng] 50-2470
- Seeding implications of ice crystal growth in the turbulent boundary layer. Levy, G., et al. [1984,eng] 50-4496
- Settling velocities of small ice crystals. Michaeli, G., [1977,eng] 50-2977
- Simulation of rain production in convective clouds, pt.1. Reisin, T., et al. [1996,eng] 50-4369
- Spectra of polar mesospheric noctilucent cloud ice nuclei. Sugiyama, T., et al. [1996,eng] 50-4255
- Structure of ice grown on high voltage conductors. Farzaneh, M., et al. [1995,eng] 50-208
- Study of the heat of crystallization of bound water in clay soils. Starostin, E.G., et al. [1996,rus] 50-6809
- Surface layers on ice. Knight, C.A., [1996,eng] 50-6058
- Theory of atmospheric ice crystal growth and sublimation. Nelson, J.T., et al. [1996,eng] 50-4351

- Thermodynamic analysis of the influence of electric fields on frost formation. Ma, H.B., et al. [1995,eng] 50-2156
- Tropospheric dehydration by subvisible cirrus clouds. Jensen, E.J., et al. [1996,eng] 50-5287
- Unusual types of single ice crystals originating from frozen cloud droplets. Magono, C., et al. [1979,eng] 50-5794
- Use of thermal analysis in the development of a better understanding of frozen food stability. Goff, H.D., [1995,eng] 50-3357
- Ice crystal nuclei**
- Ice nucleation activity in antarctic plants. Worland, M.R., et al. [1996,eng] 50-6221
- Ice crystal optics**
- Analysis of lidar observations of polar stratospheric clouds. Toon, O.B., et al. [1990,eng] 50-5991
- Atmospheric absorption of solar radiation due to ice clouds. Gautier, C., [1995,eng] 50-957
- Attenuation of microwaves by spherical hail. Battan, L.J., et al. [1986,eng] 50-4639
- Cirrus infrared parameters and shortwave reflectance relations from observations. Spinhrne, J.D., et al. [1995,eng] 50-5162
- Climatic implications of ice microphysics. Liou, K.N., [1995,eng] 50-958
- Cloud structure derived from remote sensing measurements. Sassen, K., [1984,eng] 50-4921
- Comment on paper by Papantoniou et al. Hill, S.C., et al. [1996,eng] 50-6336
- Detection of weakly precipitating winter clouds by a NOAA 404-MHz wind profiler. Orr, B.W., et al. [1996,eng] 50-5164
- Disorder in ice Ih. Nield, V.M., et al. [1995,eng] 50-1134
- Dual-polarization airborne lidar observations of polar stratospheric cloud evolution. Poole, L.R., et al. [1990,eng] 50-5990
- Effect of particle nonsphericity on bidirectional reflectance of cirrus clouds. Mishchenko, M.I., et al. [1996,eng] 50-5278
- Elliptical halos, Bondlinger's rings, and the ice-plate snow-star transition. Tränkle, E., et al. [1996,eng] 50-6612
- Estimation of ice hydrometeor types and shapes from radar polarization measurements. Matrosov, S.Y., et al. [1995,eng] 50-3609
- Ground-based remote sensing of cloud ice particle sizes. Matrosov, S.Y., et al. [1995,eng] 50-3257
- Ice crystal optical properties of cirrus clouds. Gayet, J.F., et al. [1996,eng] 50-3684
- Ice plate absorption of infrared radiation. Popov, A.A., et al. [1994,eng] 50-1284
- Improved light scattering computations for hexagonal ice crystals. Xu, L., et al. [1996,eng] 50-3957
- Internal melt figures in Japanese pond ice and microparticles in antarctic ice cores. Higashi, A., [1996,jpn] 50-4931
- Lidar detection of the transition from snowflakes to rain. Sassen, K., et al. [1996,eng] 50-5282
- Light scattering by absorbing hexagonal ice crystals in cirrus clouds. Zhang, J.Y., et al. [1995,eng] 50-984
- Light scattering by hexagonal ice prisms. 1. Small scattering angles. Petrusin, A.G., [1994,eng] 50-2709
- Light scattering effects on cloud thickness photometry. Zege, E.P., et al. [1994,eng] 50-2710
- Low ozone concentrations in mid-latitude ice clouds. Reichardt, J., et al. [1996,eng] 50-6543
- Microwave retrieval algorithm for remote sensing of precipitation. Weng, F., et al. [1992,eng] 50-3566
- Model of cloudiness evolution in cirrus cloud masses. Khvorostanov, V.I., [1995,eng] 50-4749
- Model to retrieve precipitation rate profiles from airborne radar and radiometer measurements. Weinman, J.A., et al. [1992,eng] 50-3571
- Modeling of backscattering by non-spherical ice particles for the interpretation of cloud radar signals at 94 GHz. An error analysis. Okamoto, H., et al. [1995,eng] 50-3101
- On the scattering behaviour of bullet-roses and bullet-shaped ice crystals. Strauss, B., [1996,eng] 50-6228
- Parameterization of cirrus optical depth and cloud fraction. Soden, B., [1995,eng] 50-960
- Parameterization of clouds and radiation in climate models. Roeckner, E., [1995,eng] 50-959
- Phase function calculations of single hexagonal bullet-like ice crystals. Liu, C.L., et al. [1995,eng] 50-4345
- Potential of using spaceborne millimeter wavelength radar for ice cloud studies. Matrosov, S.Y., et al. [1994,eng] 50-1113
- Proceedings. Atmospheric Radiation Measurement (ARM) Science Team Meeting, 5th, San Diego, CA, Mar. 19-23, 1995, [1996,eng] 50-5274
- Radar and radiation properties of ice clouds. Atlas, D., et al. [1995,eng] 50-1246
- Radar observation of ice crystal orientation in thunderstorms. Caylor, J.J., et al. [1996,eng] 50-5684
- Radiative properties of cirrus clouds derived from surface interferometric measurements. Beck, G.H., et al. [1996,eng] 50-6569
- Radiative properties of finite inhomogeneous cirrus clouds: Monte Carlo simulations. Chylek, P., et al. [1995,eng] 50-1471
- Radiative properties of ice clouds. Mitchell, D.L., et al. [1996,eng] 50-5279
- Radiometry of cirrus cloud optical depths and ice crystal sizes. Ou, S.C., et al. [1995,eng] 50-3258
- Radiosonde examination of synoptical scale wind/cloud dynamics. Mace, G.G., et al. [1995,eng] 50-3256

Ice crystal size

- Refractive index and density of vapor-deposited ice. Berland, B.S., et al. [1995,eng] 50-3096
- Refractive index of ice in the 1.4-7.8- μ m spectral range. Gosse, S., et al. [1995,eng] 50-3358
- Refractive-index measurements of natural air-hydrate crystals in an antarctic ice sheet. Uchida, T., et al. [1995,eng] 50-977
- Role of spaceborne millimeter-wave radar in the global monitoring of ice cloud. Brown, P.R.A., et al. [1995,eng] 50-1247
- Solar halos and sun dogs. Glassner, A., [1996,eng] 50-4499
- Spaceborne radiometric determination of cloud structure. Pierdicca, N., et al. [1996,eng] 50-5683
- Specular scattering and crystal dynamics in cirrus clouds. Lynch, D.K., et al. [1994,eng] 50-1115
- Structure of ice Ih from analysis of single-crystal neutron diffuse scattering. Nield, V.M., et al. [1995,eng] 50-2696
- Theoretical aspects of modeling backscattering by cirrus ice particles at millimeter wavelengths. Schneider, T.L., et al. [1995,eng] 50-3261
- Theoretical basis for passive microwave remote sensing of cirrus. Evans, K.F., et al. [1992,eng] 50-3565
- Theory of inelastic x-ray scattering by phonons in ice. Johansson, P., [1996,eng] 50-6329
- Time dependence of dislocation arrays in ice during recrystallization. van der Elken, J., et al. [1996,eng] 50-6346
- Ice crystal replicas**
- Grain structure of first year sea ice in a Greenland fjord. Johnston, M., et al. [1995,eng] 50-2965
- Ice/metal interfaces: fracture energy and fractography. Wei, Y., et al. [1996,eng] 50-5243
- Morphological studies on the polycrystalline snow germs. Kikuchi, K., et al. [1992,eng] 50-6644
- Unusual types of single ice crystals originating from frozen cloud droplets. Magono, C., et al. [1979,eng] 50-5794
- Ice crystal size**
- Backscattering radar measurements of spherical ice cloud crystals. Prodi, F., et al. [1996,eng] 50-4502
- Climatic implications of ice microphysics. Liou, K.N., [1995,eng] 50-958
- Cloud ice mass content from satellite radiometry and aircraft data. Matrosov, S.Y., et al. [1996,eng] 50-5277
- Cloud observations with a polarimetric 33 GHz and 95 GHz radar. Sekelsky, S.M., et al. [1996,eng] 50-4601
- Effect of particle nonsphericity on bidirectional reflectance of cirrus clouds. Mishchenko, M.I., et al. [1996,eng] 50-5278
- Effect of sea ice frost flowers on infrared surface observations. Martin, S., et al. [1996,eng] 50-5858
- Experimental formula of falling velocity of snow crystals. Kajikawa, M., [1975,eng] 50-3883
- Fall velocity of snowflakes. Jiusto, J.E., et al. [1971,eng] 50-3884
- For the control of blowing snow (1)—structure of blowing snow. Takeuchi, M., [1996,jpn] 50-4930
- Grain structure of first year sea ice in a Greenland fjord. Johnston, M., et al. [1995,eng] 50-2965
- Ground-based remote sensing of cloud ice particle sizes. Matrosov, S.Y., et al. [1995,eng] 50-3257
- Ice content retrieval from clouds using Doppler radar. Sauvageot, H., [1996,eng] 50-2772
- Ice crystal optical properties of cirrus clouds. Gayet, J.F., et al. [1996,eng] 50-3684
- Ice textures in an ice core from the Guliya Ice Cap. Huang, M.H., et al. [1995,eng] 50-4514
- Improved light scattering computations for hexagonal ice crystals. Xu, L., et al. [1996,eng] 50-3957
- Light scattering effects on cloud thickness photometry. Zege, E.P., et al. [1994,eng] 50-2710
- Mechanism of formation of nanocrystalline hematite prepared by freeze-drying. Bermejo, E., et al. [1995,eng] 50-4289
- Meteorological research applications of mm-wave radar. Kropfli, R.A., et al. [1996,eng] 50-4600
- Model of cloudiness evolution in cirrus cloud masses. Khvorostanov, V.I., [1995,eng] 50-4749
- Modeling of backscattering by non-spherical ice particles for the interpretation of cloud radar signals at 94 GHz. An error analysis. Okamoto, H., et al. [1995,eng] 50-3101
- Moraine observations at the foot of Independence Hills. Ishimaru, S., et al. [1995,eng] 50-4382
- New method for measuring snow crystals (snow crystal measuring system). Kikuchi, K., et al. [1982,eng] 50-5798
- On snow crystals with small raindrops observed in Greenland. Harimaya, T., et al. [1993,eng] 50-6039
- Parameterization of cloud ice crystal conversion processes. pt.1. Harrington, J.Y., et al. [1995,eng] 50-3260
- Passive microwave remote sensing of snow: volume scattering in antarctic fir. Tsang, L., et al. [1995,eng] 50-4181
- Phase equilibria in extended simple point charge ice-water systems. Báez, L.A., et al. [1995,eng] 50-2606
- Power law determination of ice crystal particle velocities. Mitchell, D.L., [1996,eng] 50-6558
- Precipitation sensitivity to cloud microphysical parameters. Liu, Y.Q., et al. [1996,eng] 50-4353
- Proceedings. Atmospheric Radiation Measurement (ARM) Science Team Meeting, 5th, San Diego, CA, Mar. 19-23, 1995, [1996,eng] 50-5274
- Radiative properties of finite inhomogeneous cirrus clouds: Monte Carlo simulations. Chylek, P., et al. [1995,eng] 50-1471
- Radiative properties of ice clouds. Mitchell, D.L., et al. [1996,eng] 50-5279
- Radiometry of cirrus cloud optical depths and ice crystal sizes. Ou, S.C., et al. [1995,eng] 50-3258
- Radiosonde examination of synoptical scale wind/cloud dynamics. Mace, G.G., et al. [1995,eng] 50-3256

Ice crystal structure

- Relative humidity influences on cirrus cloud ice crystal formation. Heymsfield, A.J., et al. [1995,eng] 50-3259
- Role of ice geometry and impact velocity in thunderstorm electrification. Latham, J., et al. [1965,eng] 50-3949
- Scanning microscopy of an autofluorescent biological substance. Evans, J., et al. [1996,eng] 50-4532
- Settling velocities of small ice crystals. Michaeli, G., [1977,eng] 50-2977
- Size parameters of snow grains in scattering and emission models. Jin, Y.Q., [1995,eng] 50-4179
- Specular scattering and crystal dynamics in cirrus clouds. Lynch, D.K., et al. [1994,eng] 50-1115
- Theoretical aspects of modeling backscattering by cirrus ice particles at millimeter wavelengths. Schneider, T.L., et al. [1995,eng] 50-3261
- Theoretical basis for passive microwave remote sensing of cirrus. Evans, K.F., et al. [1992,eng] 50-3565
- Theory of atmospheric ice crystal growth and sublimation. Nelson, J.T., et al. [1996,eng] 50-4351
- Ice crystal structure**
- Adsorption of methane on natural snow. Chaix, L., et al. [1996,eng] 50-5963
- Annealing effects on the internal friction of artificial ice single crystals. Oguro, M., et al. [1981,jpn] 50-5792
- Backscattering radar measurements of spherical ice cloud crystals. Prodi, F., et al. [1996,eng] 50-4502
- Behavior of point defects in ice crystals revealed by X-ray topography. Hondoh, T., et al. [1982,eng] 50-5800
- Calculation of free energy for molecular crystals by thermodynamic integration. Báez, L.A., et al. [1995,eng] 50-1951
- Competition of precipitation particles in a model with parameterized cloud microphysics. Wacker, U., [1995,eng] 50-413
- Creep of ice crystals and the measurement of strain: some technical considerations. Barrette, P.D., et al. [1995,eng] 50-2962
- Diffusion of helium through ice. Davy, J.G., et al. [1970,eng] 50-5748
- Disorder in ice Ih. Nield, V.M., et al. [1995,eng] 50-1134
- Dynamical processes of dislocations and point defects in ice crystal. Higashi, A., et al. [1985,jpn] 50-5793
- Effect of X-radiation on the plastic deformation of ice. Hu, X.H., et al. [1996,eng] 50-5866
- Effects of high voltage on the structure of ice. Farzaneh, M., et al. [1996,eng] 50-5387
- Elastic constants of ice VI by Brillouin spectroscopy. Tulk, C.A., et al. [1996,eng] 50-5506
- Electrical properties of pure and doped ice Ih. Taubenberger, R., [1982,ger] 50-5761
- Elliptical halos, Botlinger's rings, and the ice-plate snow-star transition. Tränkle, E., et al. [1996,eng] 50-6612
- Estimation of ice hydrometeor types and shapes from radar polarization measurements. Matrosov, S.Y., et al. [1995,eng] 50-3609
- Experiments of the charging mechanism of ice particles by the ion-capture process. Asuma, Y., et al. [1983,eng] 50-5797
- Fluorescence spectra and lifetime of 2-naphthol in H₂O and D₂O-ice(I_h) single crystal. Ping, Q., et al. [1995,eng] 50-2161
- Fluorescence spectra and lifetime of 2-naphthol in H₂O and D₂O-ice(I_h) single crystal. Ping, Q., et al. [1995,eng] 50-2161
- Formation and morphology of ice stalactites observed under deforming lead ice. Perovich, D.K., et al. [1995,eng] 50-452
- Formation mechanism of side branches of dendritic ice crystals grown from vapor. Gonda, T., et al. [1996,eng] 50-5193
- Grain structure of first year sea ice in a Greenland fjord. Johnston, M., et al. [1995,eng] 50-2965
- Hardness of single ice crystals. Butkovich, T.R., [1958,eng] 50-5759
- Ice shelf structure at Maudheim Station. Schytt, V., [1958,eng] 50-6420
- Ice textures in an ice core from the Guliya Ice Cap. Huang, M.H., et al. [1995,eng] 50-4514
- Ice loss. Rice, D., [1996,eng] 50-5083
- Internal melt figures in Japanese pond ice and microparticles in antarctic ice cores. Higashi, A., [1996,jpn] 50-4931
- Ions and dipoles in water and ice, and their transfer through the interface. Von Hippel, A., et al. [1974,eng] 50-5739
- Isolation and identification of antifreeze protein with high activity in *Ammopiptanthus mongolicus*. Fei, Y.B., et al. [1994,chi] 50-1835
- Light scattering by hexagonal ice prisms. 1. Small scattering angles. Petrushin, A.G., [1994,eng] 50-2709
- Molecular dynamics simulation studies on ice: interatomic models. Kawamura, K., [1996,jpn] 50-6733
- Molecular dynamics study of surface melting on ice crystal. Nada, H., et al. [1994,eng] 50-3073
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration. [1995,eng] 50-1866
- On the scattering behaviour of bullet-rosette and bullet-shaped ice crystals. Strauss, B., [1996,eng] 50-6228
- Orientation dependence of elastic constants for ice. Parameswaran, V.R., [1987,eng] 50-4223
- Phase equilibria in extended simple point charge ice-water systems. Báez, L.A., et al. [1995,eng] 50-2606
- Phase function calculations of single hexagonal bullet-like ice crystals. Liu, C.L., et al. [1995,eng] 50-4345
- Phase transition of the hydrogen-bonded crystals and ice. Fujii, K., [1995,eng] 50-1112
- Power law determination of ice crystal particle velocities. Mitchell, D.L., [1996,eng] 50-6558

Ice deformation

- Propagation of elastic waves in ice. Ryzhkin, I.A., [1984,eng] 50-5787
- Proton dynamics of doped ice. Akiyama, T., et al. [1996,eng] 50-6726
- Quartzlike polymorph of ice. Svishev, I.M., et al. [1996,eng] 50-4412
- Radar observation of cloud ice crystal alignment to predict lightning. Krehbiel, P., et al. [1996,eng] 50-4599
- Recent molecular dynamics simulation studies on ice: vibrational spectra of ice. Itoh, H., [1996,jpn] 50-4938
- Role of electrified ice meltwater in thunderstorms. Kamra, A.K., et al. [1984,eng] 50-4923
- Settling velocities of small ice crystals. Michaeli, G., [1977,eng] 50-2977
- Simulated structure of ice nanocrystal surface. Buch, V., et al. [1996,eng] 50-4183
- Solar halos and sun dogs. Glassner, A., [1996,eng] 50-4499
- Structure and evolution of winter cyclones in the central United States and their effects on the distribution of precipitation. Part II: arctic fronts. Wang, P.Y., et al. [1995,eng] 50-1565
- Structure of ice grown on high voltage conductors. Farzaneh, M., et al. [1995,eng] 50-208
- Structure of ice Ih from analysis of single-crystal neutron diffuse scattering. Nield, V.M., et al. [1995,eng] 50-2696
- Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savel'ev, B.A., [1963,rus] 50-3832
- Theoretical basis for passive microwave remote sensing of cirrus. Evans, K.F., et al. [1992,eng] 50-3565
- Theory of atmospheric ice crystal growth and sublimation. Nelson, J.T., et al. [1996,eng] 50-4351
- X-ray topographic study of ice crystal dislocations. Liu, F.P., et al. [1992,eng] 50-5958
- Ice crystals**
- Cirrus clouds. Heymsfield, A.J., [1996,eng] 50-4979
- Dual polarization radar observations of thunderclouds in winter season. Sonoi, Y., et al. [1995,eng] 50-4258
- Experimental study on the melting transition at interface between ice crystal and substrate. Furukawa, Y., et al. [1994,eng] 50-3072
- HCl on stratospheric ice. Gertner, B.J., et al. [1996,eng] 50-4859
- High resolution study of the platelet ice ecosystem in McMurdo Sound. Arrigo, K.R., et al. [1995,eng] 50-2522
- Method of and apparatus for removing debris from the floptical medium. Johnson, P.R., et al. [1995,eng] 50-3464
- Microwave radar for monitoring the diverse cloudiness regimes on Earth: a review. Katsaros, K.B., [1992,eng] 50-227
- Observations of pressure effects on the creep of ice single crystals. Cole, D.M., [1996,eng] 50-4901
- Radiative effects of polar stratospheric clouds. Kinne, S., et al. [1990,eng] 50-5986
- Satellite measurements of cloud microphysical properties. Poix, C., et al. [1996,eng] 50-4571
- Settling velocities of small ice crystals. Michaeli, G., [1977,eng] 50-2977
- Uniaxial compressive strength of frozen ground at low subzero temperatures. Ershov, E.D., et al. [1996,rus] 50-6828
- Ice cutting**
- Device for boring holes in ice. Solov'eva, I.U.IA., [1992,rus] 50-1945
- Jet-cutting as an ice-breaking aid. Preliminary report on field tests for U.S. Coast Guard. Mellor, M., et al. [1973,eng] 50-3762
- Manual of ice protection. Sipos, B., ed. [1973,hun] 50-443
- Mechanical ice cutter on the Mississippi River. Ashton, G.D., [1973,eng] 50-3954
- Mechanics of marine screw propeller ice cutting processes. Veitch, B., [1995,eng] 50-4154
- New challenges for the pipeline engineer in the Russian Arctic. Brown, R.J., [1995,eng] 50-212
- Ice dams**
- Baltic Ice Lake. Brunnberg, L., [1995,eng] 50-513
- Comment and reply on paper by Batterson et al. Brookes, I.A., et al. [1995,eng] 50-1083
- History and drainage of large ice-dammed lakes along the Laurentide ice sheet. Teller, J.T., [1995,eng] 50-503
- Hudson Bay-Hudson Strait Jökulhlaups and Heinrich events: a hypothesis. Johnson, R.G., et al. [1995,eng] 50-354
- Ice dam melting system. Tourangeau, D.R., et al. [1995,eng] 50-3481
- Ice dam. Vasil'ev, P.N., et al. [1992,rus] 50-1911
- Sedimentary environments associated with glacial Lake Tringham, Norfolk, UK. Hart, J.K., [1992,eng] 50-2554
- Stability of water flow in glaciers. Szilder, K., et al. [1996,eng] 50-6436
- Structural ice control: review of existing methods. Tuthill, A.M., [1995,eng] 50-393
- Subglacial lake burst variations in Iceland. Gudmundsson, M.T., et al. [1995,eng] 50-449
- Ice dating**
- Accelerator mass spectrometry: new applications. Synal, H.A., [1995,eng] 50-2309
- Application of AMS ¹⁴C dating to ice core research. Wilson, A.T., [1995,eng] 50-5246
- Canadian paleoenvironments derived from pollen macrofossils. Gajewski, K., et al. [1995,eng] 50-2131
- Cores. Kneller, M., [1996,eng] 50-4981
- Correction for *in-situ* ¹⁴C in antarctic ice with ¹⁴CO. Van Roijen, J., et al. [1995,eng] 50-5245
- Greenland ice core records and rapid climate change. Dowdeswell, J.A., et al. [1995,eng] 50-5239
- Greenland's ice holds key to climate puzzle. Kiernan, V., [1996,eng] 50-6546
- Ice core records for analyzing desertification. Nakawo, M., et al. [1995,eng] 50-614
- Internal melt figures in Japanese pond ice and microparticles in antarctic ice cores. Higashi, A., [1996,jpn] 50-4931
- Isotope analysis of Greenland ice sheet stratigraphic disturbances. Fuchs, A., et al. [1996,eng] 50-5461
- Late Quaternary stratigraphy and glaciology in the Thule area, Northwest Greenland. Funder, S., ed. [1990,eng] 50-5169
- Mineral dust record in a high altitude alpine glacier (Colle Gnifetti, Swiss Alps). Wagenbach, D., et al. [1989,eng] 50-5411
- Rapid oscillations in Vostok and GRIP ice cores. You, P., et al. [1995,eng] 50-772
- Solar particle origin for polar ice core nitrate anomalies. Zeller, E.J., et al. [1995,eng] 50-1184
- Summer temperatures from an ice core at Law Dome. Han, J.K., [1989,chi] 50-6771
- Toba eruption sulfates recorded in GISP2 ice core. Zielinski, G.A., et al. [1996,eng] 50-5288
- Ice deformation**
- 10 meter scale (macro-crack): scale effects on the fracturing of sea ice. Dempsey, J.P., et al. [1995,eng] 50-6298
- 1995 perspective on global design ice loads. Kennedy, K.P., [1995,eng] 50-2937
- Abrasion mode of a circular cylindrical concrete structure due to sea ice movement. Itoh, Y., et al. [1995,eng] 50-191
- Acoustic and seismic studies of ice mechanics. Farmer, D., et al. [1995,eng] 50-6272
- Acoustic tomography of ice cracking and ridging. Rajan, S.D., [1995,eng] 50-6275
- Analytical modeling of glacier dynamics. Bahr, D.B., [1996,eng] 50-5023
- Application of ice cover mechanics in design and operations of marine structures. Riska, K., et al. [1995,eng] 50-6303
- Automatic ice motion retrieval from ERS-1 SAR images using the optical flow method. Sun, Y., [1996,eng] 50-5824
- Breakthrough loads of floating ice sheets: small-scale tests with urea model ice. Sodhi, D.S., [1995,eng] 50-2939
- Compressive creep of polycrystalline ice containing a liquid phase, de la Chapelle, S., et al. [1995,eng] 50-595
- Compressive failure of columnar saline ice under multiaxial loading. Schulson, E.M., [1995,eng] 50-6282
- Constitutive equations and fracture models for sea ice. Rodin, G.J., et al. [1995,eng] 50-6292
- Crack nucleation in columnar ice—recent developments. Gupta, V., et al. [1995,eng] 50-2958
- Crack nucleation mechanisms in columnar ice—recent developments. Gupta, V., et al. [1995,eng] 50-6281
- Creep of ice crystals and the measurement of strain: some technical considerations. Barrette, P.D., et al. [1995,eng] 50-2962
- Creep of saline ice at low stresses and high temperatures. Richter-Menge, J.A., et al. [1995,eng] 50-179
- Deformation and failure of an ice cover at an ice-resistant structure. Danilenko, V.I., et al. [1995,eng] 50-2938
- Deformation of ice under low stresses. Sego, D.C., et al. [1982,eng] 50-3787
- Doppler electromagnetic analysis of ice cover gravity wave oscillations. Vdovichenko, S.P., [1996,eng] 50-5703
- Ductile deformation of columnar saline ice under triaxial compressive loading. Melton, J.S., et al. [1995,eng] 50-2957
- Effect of size on distributed damage and fracture of sea ice. Bažant, Z.P., et al. [1995,eng] 50-6278
- Effect of X-radiation on the plastic deformation of ice. Hu, X.H., et al. [1996,eng] 50-5866
- Effects of individual ridging events on the ice thickness distribution in the arctic ice pack. Hopkins, M.A., [1996,eng] 50-3828
- Effects of localized deformation on melting processes in ice. Wilson, C.J.L., et al. [1996,eng] 50-5470
- Elastic fracture mechanics and fracture propagation in rock and ice. Fischer, M.P., [1994,eng] 50-696
- Elasto-delayed-elastic simulation of short-term deflection of fresh-water ice covers. Sinha, N.K., et al. [1996,eng] 50-5474
- Electromechanical phenomena in ice. Petrenko, V.E., [1996,eng] 50-4546
- Experimental investigations of the behavior of ice at the contact zone. Timco, G.W., et al. [1995,eng] 50-3807
- Experimental study of ice load on conical structures. Ohta, M., et al. [1996,jpn] 50-5877
- Experimental study of tearing toughness K_{IIC} for fresh water ice. Li, G.W., et al. [1995,eng] 50-2974
- Extraction of deformation descriptors from spaceborne radar ice motion products. Li, S., et al. [1995,eng] 50-1812
- Field and laboratory experiments and modeling of the constitutive behavior of sea ice. Cole, D.M., [1995,eng] 50-6280
- Formation and morphology of ice stalactites observed under deforming lead ice. Perovich, D.K., et al. [1995,eng] 50-452
- High frequency acoustic response of sea ice to single load cycles: a preliminary analysis. Langhorne, P.J., et al. [1995,eng] 50-2940
- Ice loads on fixed and floating structures: panel report. Croasdale, K.R., et al. [1995,eng] 50-6300
- Ice microcracking due to grain boundary sliding. Elvin, A.A., et al. [1996,eng] 50-4185

Ice density

- Ice processes at the 1 km scale. Hopkins, M.A., et al. [1995,eng] 50-6297
- Ice surface oscillation measurements on SIMI using strain, heave and tilt sensors. Wadhams, P., et al. [1995,eng] 50-6306
- Ice tank tests on pressure ridge formation. Lensu, M., et al. [1995,eng] 50-4582
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995,eng] 50-195
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995,eng] 50-2942
- Ice-structure interaction research and arctic development. Kennedy, K.P., et al. [1995,eng] 50-6304
- Ice-structure interaction under slippage boundary conditions. Matskevich, D.G., [1995,eng] 50-2936
- Ice/metal interfaces: fracture energy and fractography. Wei, Y., et al. [1996,eng] 50-5243
- Internal layer folding patterns from radar studies of ice streams B and C. Jacobel, R.W., et al. [1994,eng] 50-1892
- Local pressure characteristics by indenter with segmented local ice pressure panels. Kamesaki, K., et al. [1996,jpn] 50-5876
- Measurements of crack velocity in sea ice using electromagnetic techniques. Petrenko, V.F., et al. [1995,eng] 50-6291
- Model of mesoscale motions of ice caused by convective flows. Goldshtein, R.V., et al. [1995,eng] 50-2948
- Models of ice-structure contact for engineering applications. Riska, K., [1995,eng] 50-3808
- Movement of the ice shelf at Maudheim. Swinbank, C., [1995,eng] 50-6525
- New flow law of ice-sheet ice. Azuma, N., [1995,jpn] 50-991
- Nucleation of microcracks in ice cubes compressed equally on all boundaries. Weiss, J., et al. [1996,eng] 50-5867
- Numerical simulation of arctic pressure ridging. Hopkins, M.A., [1995,eng] 50-6289
- Observation of slip transmission through a grain boundary in ice. Jia, K., et al. [1996,eng] 50-5297
- Of ocean waves and sea ice. Squire, V.A., et al. [1995,eng] 50-5241
- On dynamics of ice-structure interaction. Kajaste-Rudnitski, J., [1995,eng] 50-4169
- On the indentation of a blunt ice wedge. Selvadurai, A.P.S., et al. [1995,eng] 50-180
- On the structure of pressured sea ice. Kovacs, A., [1970,eng] 50-3835
- Pack ice stresses and their relationship to regional deformation. Richter-Menge, J.A., et al. [1995,eng] 50-6287
- Panel report on 100 km scale (pack ice). Coon, M.D., et al. [1995,eng] 50-6295
- Panel report on the 10 km scale—floe cluster. Overland, J.E., et al. [1995,eng] 50-6296
- Physical processes in ice cover. Smirnov, V.N., et al. [1995,eng] 50-6315
- Physically based constitutive modeling of ice. Connor, J.J., et al. [1995,eng] 50-6288
- Physically-based constitutive modeling of ice: damage and failure. Wu, M.S., et al. [1995,eng] 50-6293
- Planar forcing of floating ice sheets. Zhao, Z.G., et al. [1996,eng] 50-1108
- Preliminary results from fatigue tests on in situ sea ice beams. Haskell, T.G., et al. [1996,eng] 50-5469
- Proceedings. Vol.2. International Offshore and Polar Engineering Conference, 5th. Hague, Netherlands, June 11-16, 1995. [1995,eng] 50-175
- Proceedings. Volume IV. Arctic/polar technology. International Conference on Offshore Mechanics and Arctic Engineering (OMA), 14th, Copenhagen, Denmark, June 18-22, 1995. [1995,eng] 50-2935
- Proceedings. Sea Ice Mechanics and Arctic Modeling Workshop. Anchorage, AK, Apr. 25-28, 1995. [1995,eng] 50-6271
- Quiescent-phase evolution of a surge-type glacier: Black Rapids Glacier, Alaska, U.S.A. Heinrichs, T.A., et al. [1996,eng] 50-4896
- Regional and floe-floe deformation. Overland, J.E., et al. [1995,eng] 50-6286
- Response of a circular ice floe to ocean waves. Meylan, M.H., et al. [1996,eng] 50-5264
- Results of the studies of natural deformations of sea ice fields. Smirnov, V.N., et al. [1990,eng] 50-96
- Rheology of water ices V and VI. Durham, W.B., et al. [1996,eng] 50-3450
- Ridging and strength in modeling the thickness distribution of arctic sea ice. Flato, G.M., et al. [1995,eng] 50-570
- Scale effects on the fracture and constitutive behavior of sea ice. Dempsey, J.P., et al. [1995,eng] 50-6279
- Sea ice failure mechanisms. Pritchard, R.S., [1995,eng] 50-6274
- Sea Ice Mechanics Initiative (SIMI) geophone/hydrophone system. Stein, P.J., et al. [1995,eng] 50-6277
- Sea Ice Mechanics Initiative (SIMI) summary plan, FY94-95. [1995,eng] 50-6294
- Sea ice mechanics related to thermally-induced stresses and fracturing in pack ice. Lewis, J.K., et al. [1995,eng] 50-6290
- Sea ice mechanics research. Coon, M.D., et al. [1995,eng] 50-6284
- Sea ice rheology and sea ice modelling. Tremblay, B., [1993,eng] 50-5185
- Seismic activity of landfast ice. Nikitin, V.A., et al. [1995,eng] 50-188

- Seismo-acoustic remote sensing of ice-mechanical processes in the Arctic. Schmidt, H., et al. [1995,eng] 50-6276
- Self-excited oscillations in ice floes and icebergs. Smirnov, V.N., et al. [1995,eng] 50-2946
- Shear margins in glaciers and ice sheets. Raymond, C., [1996,eng] 50-4894
- Shear strength of ice rubble in laboratory tests. Lehmus, E., et al. [1995,eng] 50-181
- SIMI (Sea Ice Mechanics Initiative) panel on the 1cm-1m scale. Schulson, E.M., et al. [1995,eng] 50-6299
- Simulation of sea ice behaviour—a parametric study. Evgin, E., et al. [1995,eng] 50-2952
- Simulation of the ice-structure interaction under the parabolic strength criterion for ice. Matskevich, D.G., [1995,eng] 50-190
- Statistics of ice-structure interaction. Kajaste-Rudnitski, J., [1995,eng] 50-199
- Strength and viscosity of ice. Zaretski, I.U.K., et al. [1996,rus] 50-6825
- Stresses in sea ice in the neighboring force interaction zone. Nikitin, V.A., et al. [1995,eng] 50-5522
- Structure and flexural strength of sea ice and consolidation of pressure ridges. Shapiro, L.H., et al. [1995,eng] 50-6283
- Structure of internal stresses in the uncompacted ice cover. Sukhorukov, K.K., [1995,eng] 50-193
- Surface wave diffraction at a system of cracks in the ice cover. Goldshtein, R.V., et al. [1995,eng] 50-2949
- Thickness and fracture toughness of freshwater ice. Chang, C., et al. [1995,eng] 50-2975
- Triaxial tests on crushed ice. Singh, S.K., et al. [1996,eng] 50-5468
- Uniaxial compressive strength of sea ice in Okhotsk Sea. Masaki, T., et al. [1996,jpn] 50-5888
- Unified viscoplastic model for the inelastic behavior of ice. Lee, J.H., et al. [1996,eng] 50-6176
- Validation of backscatter models for level and deformed sea-ice in ERS-1 SAR images. Carlström, A., et al. [1995,eng] 50-1811
- Variation of local pressures during ice-structure interaction. Johnston, M., [1994,eng] 50-376
- Yield conditions of an assembly of discrete ice floes. Sayed, M., et al. [1995,eng] 50-182
- Ice density**
- Compaction tests to simulate icy satellite regolith physics. Leliwa-Kopystyński, J., et al. [1995,eng] 50-5200
- Comparison of arctic, antarctic, and Himalayan ice. Pathak, R.C., [1989,eng] 50-3401
- Grain structure of first year sea ice in a Greenland fjord. Johnston, M., et al. [1995,eng] 50-2965
- High-density amorphous ice, the frost on interstellar grains. Jenniskens, P., et al. [1995,eng] 50-2780
- Ice polymorph pressure determination in a diamond-anvil cell. Haselton, H.T., Jr., et al. [1995,eng] 50-4088
- Ice shelf structure at Maudheim Station. Schytt, V., [1958,eng] 50-6420
- Measuring the conductivity and density of ice cores. Wilhelm, F., [1996,ger] 50-4735
- Mechanism for consolidating ice and saline frozen ground with polyvinyl alcohol admixtures. Cheverev, V.G., et al. [1993,rus] 50-127
- Microwave emission from polar firm. West, R.D., [1994,eng] 50-662
- Molecular dynamics simulation of vapor deposited amorphous ice. Essmann, U., et al. [1995,eng] 50-419
- Molecular dynamics study of surface melting on ice crystal. Nada, H., et al. [1994,eng] 50-3073
- Refractive index and density of vapor-deposited ice. Berland, B.S., et al. [1995,eng] 50-3096
- Refractive index of vapor-deposited ice. Brown, D.E., et al. [1996,eng] 50-5300
- Review of sea ice density. Timco, G.W., et al. [1996,eng] 50-3823
- Seasonal development of Beaufort Sea pack ice. Melling, H., et al. [1996,eng] 50-5857
- Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savelev, B.A., [1963,rus] 50-3832
- Structures and phase transitions of amorphous ices. Okabe, I., et al. [1996,eng] 50-5103
- Study of dynamic effects on icebreaking in 2-dimension: experiment. Usami, A., et al. [1996,eng] 50-4468
- Taylor Ice Dome study 1993-1994: an ice core to bedrock. Grootes, P.M., et al. [1994,eng] 50-1898
- Three-dimensional modelling of ice accretion micro structure. Szilder, K., et al. [1996,eng] 50-5340
- Ice detection**
- 3.5-cm radar investigation of Mars and Mercury: planetological implications. Butler, B.J., [1994,eng] 50-690
- Aircraft icing handbook. [1993,eng] 50-5064
- Analysis of coastal ice cover using ERS-1 SAR data. Leshkevich, G., et al. [1995,eng] 50-1822
- Apparatus for measuring ice distribution profiles. Gerardi, J.J., et al. [1995,eng] 50-3482
- Automated approach to the sea-ice motion estimation. Motezuma Flores, M., et al. [1994,eng] 50-5175
- Automated nowcasting model of road surface temperature and rate for winter road maintenance. Shao, J., et al. [1996,eng] 50-6571
- Climate of freezing rain over the province of Québec in Canada: a preliminary analysis. Lafamme, J.N., et al. [1996,eng] 50-5333

Ice detection

- Cloud observations with a polarimetric 33 GHz and 95 GHz radar. Sekelsky, S.M., et al. [1996,eng] 50-4601
- Cloud structure derived from remote sensing measurements. Sassen, K., [1984,eng] 50-4921
- Comparison of second-order classifiers for SAR sea ice discrimination. Barber, D.G., et al. [1993,eng] 50-1446
- Confirming airworthiness prior to takeoff in icing conditions—pilot options. Eloranta, J.T., [1992,eng] 50-3798
- Demonstration project to supply near real time sea ice information. Blackford, C., et al. [1994,eng] 50-1516
- Detection and monitoring of H₂O and CO₂ ice clouds on Mars. Bell, J.F., III, et al. [1996,eng] 50-5195
- Detection and prediction of hail with Meteosat data. Messmer, B., et al. [1995,ger] 50-2539
- Detection of radar targets in sea-ice clutter. Lin, C.P., et al. [1996,eng] 50-5895
- Detection of weakly precipitating winter clouds by a NOAA 404-MHz wind profiler. Orr, B.W., et al. [1996,eng] 50-5164
- Detector for indicating ice formation on the wing of an aircraft. Luukkala, M., [1995,eng] 50-3472
- Device for determining ice adhesion. Gnatiuk, V.V., et al. [1992,rus] 50-1931
- Efficacy of ice detector hoarfrost observations. Ryerson, C.C., et al. [1996,eng] 50-4033
- Elking out icing info. Hamm, J., [1995,eng] 50-3687
- Estimation of ice hydrometeor types and shapes from radar polarization measurements. Matrosov, S.Y., et al. [1995,eng] 50-3609
- Evaluation of the proposed ASOS freezing rain sensor. Ramsay, A.C., [1996,eng] 50-4034
- Feasibility of infrared sensing of Martian cloud and surface ices. Johnson, B.R., et al. [1996,eng] 50-3865
- First observational evidence for condensation of Io's SO₂ atmosphere on the nightside. Buratti, B.J., et al. [1995,eng] 50-2154
- Focus 2000: wind, ice, and fog. Annual Mount Washington Observatory Symposium, 4th, North Conway, NH, June 23-24, 1995. [1996,eng] 50-4027
- Freezing-rain reporting capability of the Automated Surface Observing System (ASOS). Ramsay, A.C., [1996,eng] 50-5334
- Ground deicing. George, F., [1995,eng] 50-3688
- Ground penetrating radar investigations of massive ground ice. Dallimore, S.R., et al. [1992,eng] 50-56
- Ground probing radar investigation of permafrost in northern Quebec. Pilon, J.A., et al. [1992,eng] 50-65
- Ice accretion and persistence measuring instrument. Franklin, C.H., et al. [1991,eng] 50-4364
- Ice detection apparatus for transportation safety. Stolarczyk, L.G., et al. [1995,eng] 50-3475
- Ice detection for turboprop aircraft. Render, P.M., et al. [1995,eng] 50-3691
- Ice is where you find it. Steenblik, J.W., [1995,eng] 50-4705
- Iceberg detection using ERS-1 synthetic aperture radar. Willis, C.J., et al. [1996,eng] 50-5225
- Iceberg observations and estimation of submarine ridges in the western Weddell Sea. Viehoff, T., et al. [1995,eng] 50-1818
- IceNav shipboard radar integration. Marton, C., [1995,eng] 50-4042
- ICEYE: development of an aircraft ice accretion warning and monitoring system. Slaba, J., et al. [1995,eng] 50-4036
- Icing rate measurements: a key way of estimating ice loads on structures. Lafamme, J.N., [1996,eng] 50-5359
- Icing rate meter estimation of transmission line icing. McComber, P., et al. [1996,eng] 50-4031
- Icing rate meter, an instrument to evaluate transmission line icing. McComber, P., et al. [1996,eng] 50-5357
- Improved segmentation of sea ice in radiometric imagery. Simpson, J.J., et al. [1995,eng] 50-3494
- Improved use of passive microwave data for sea ice detection. Heygster, G.C., et al. [1992,eng] 50-225
- Industry researchers develop variety of ice sensors. Hughes, D., [1993,eng] 50-481
- Inflight icing part III: operations. Steenblik, J.W., [1995,eng] 50-4704
- Information states in sea ice imagery. Kerman, B.R., [1995,eng] 50-6311
- Investigation into ice detection parameters for turboprop aircraft. Render, P.M., et al. [1996,eng] 50-4218
- Laboratory study of microwave backscattering from saline ice. Porco, R.L., [1994,eng] 50-683
- Measurement of ice accretion and persistence at unmanned sites. Final report. Hill, G.E., [1990,eng] 50-4365
- Meteorological research applications of mm-wave radar. Kropfli, R.A., et al. [1996,eng] 50-4600
- Method and apparatus for remote detection and thickness measurement of ice or liquid layer. Gagnon, R.E., [1995,eng] 50-3483
- Method and system for detecting potential icy conditions on roads. Rendon, E., [1995,eng] 50-3461
- Monitoring lead dynamics with ERS-1 synthetic aperture radar imagery. Wackerman, C.C., et al. [1994,eng] 50-1512
- Multisensor observations of winter sea ice in the Greenland Sea. Toudal, L., [1994,eng] 50-1514
- New transducer for measurement of ice loads for utilities. Seppa, T.O., [1996,eng] 50-5397
- Newest weapons in the battle against airframe icing. Czaplyski, V., [1994,eng] 50-2989
- Observations of molecular ices. Whittet, D.C.B., [1993,eng] 50-3363

Ice deterioration

- Oceanic remote sensing and sea ice monitoring. Johannessen, J.A., ed. et al. [1994,eng] 50-1509
- Picking out the pack ice from the air. [1989,eng] 50-5645
- Pilot techniques during icing conditions. den Hertog, R., [1992,eng] 50-3795
- Polarimetric radar at attenuated wavelengths as a hydrological sensor. Sauvageot, H., [1996,eng] 50-5166
- Precipitation hydrometeor characterization by a CW Doppler radar. Duvernoy, J., et al. [1996,eng] 50-5165
- Production and chemical analysis of cometary ice tholins. McDonald, G.D., et al. [1996,eng] 50-5833
- Radar observation of cloud ice crystal alignment to predict lightning. Krehbiel, P., et al. [1996,eng] 50-4599
- Radar observation of ice crystal orientation in thunderstorms. Caylor, J.J., et al. [1996,eng] 50-5684
- Radiometric detection of ice crystal growth in cirrus clouds. Ou, S.C., et al. [1996,eng] 50-5204
- Reduction of weather effects in the calculation for sea-ice concentration with the DMSP SSM/I. Cavalieri, D.J., et al. [1995,eng] 50-1867
- Remote sensing ice detection capabilities—East Coast. Rossiter, J.R., et al. [1995,eng] 50-1412
- River ice motion detector. Zufelt, J.E., et al. [1995,eng] 50-5889
- Rocket flight cloud seeding during hail suppression experiments. Lacaux, J.P., et al. [1995,eng] 50-4971
- Satellite mapping and monitoring of sea ice. Smith, D.M., et al. [1994,eng] 50-5197
- Satellite mapping of algal blooms and sea ice in the North Sea and IJsselmeer. Roozemaars, H., [1994,eng] 50-1517
- Satellite remote sensing tools for sea ice engineering. Cavané, A., et al. [1995,eng] 50-184
- Sea ice concentrations derived from satellite microwave imagery. Lomax, A.S., et al. [1995,eng] 50-1244
- Sea ice concentrations derived from SMMR and SSM/I. Björge, E., et al. [1994,eng] 50-1513
- Sea ice detection at Showa Station from MOS-1 mosaics. Ishida, K., et al. [1996,jpn] 50-5892
- Sea ice radar backscatter and the fusion of active and passive microwave data. Beaven, S.G., [1995,eng] 50-4171
- Sea-ice velocity fields estimation on Ross Sea with NOAA-AVHRR. Moctezuma Flores, M., et al. [1995,eng] 50-983
- Small airline continues to win big battle against aircraft ground icing. [1992,eng] 50-3574
- Snow identification from radar wind profiler spectra. Ralph, F.M., et al. [1996,eng] 50-5163
- Some active and passive microwave signatures of antarctic sea ice from mid-winter to spring 1991. Gohin, F., [1995,eng] 50-161
- Spectra of nitrogen component of ices in cosmic dust. Whittet, D.C.B., et al. [1996,eng] 50-6210
- Spectral albedos of Charon's surface composition. Roush, T.L., et al. [1996,eng] 50-4002
- Spectropolarimetry of the 3 micron ice feature toward the Becklin-Neugebauer object. Hough, J.H., et al. [1996,eng] 50-5504
- Spectroscopy of ices in quiescent cosmic dust clouds. Chiar, J.E., et al. [1995,eng] 50-2779
- SSM/I time series observations of Great Lakes ice and snow. Pilant, D., [1995,eng] 50-3107
- Student invents a prize-winning ice detector. Rice, D., [1996,eng] 50-5084
- Study of ice spectra in cosmic dust. Brooke, T.Y., et al. [1996,eng] 50-3964
- Surface features of interstellar ice. McCoustra, M., et al. [1996,eng] 50-5244
- System for detecting ice or snow on surface which specularly reflects light. Stern, H., [1995,eng] 50-3476
- Telemetering of climatic loads on Hydro-Québec 735 kV lines. Hardy, C., et al. [1996,eng] 50-5358
- Titan's surface: composition and variability from the near-infrared albedo. Coustenis, A., et al. [1995,eng] 50-2031
- Transmission line ice measurements with tension monitoring systems. Seppä, T.O., [1996,eng] 50-5356
- Validation and evaluation of a workstation for monitoring sea ice. McIntyre, N., et al. [1994,eng] 50-1515
- Validation of ice accretion models for freezing precipitation using field data. Haldar, A., et al. [1996,eng] 50-5361
- Video monitoring of atmospheric icing. Wareing, J.B., et al. [1995,eng] 50-204
- Wind tunnel tests of ice-free anemometer. Motyka, J., et al. [1985,eng] 50-484
- Ice deterioration**
- Build-up, decay and role of the sea-ice cover of the Liefdefjord, NW Spitsbergen. King, L., et al. [1994,ger] 50-1596
- Comments and reply on paper of Venkatesh et al. Marko, J.R., et al. [1995,eng] 50-601
- Dusting river ice with leaf mulch to aid in ice deterioration. Haehnel, R.B., et al. [1996,eng] 50-6072
- Ice-pavement bond disbonding—fundamental study. Blackburn, R.R., et al. [1993,eng] 50-876
- Preliminary study of melting snow and river ice by dusting using leaf mulch. Haehnel, R.B., et al. [1995,eng] 50-3120
- River ice processes. Prowse, T.D., [1995,eng] 50-785
- Ice dielectrics**
- Analysis of interference effects on surface-impedance mapping of glacier thickness. Thiel, D.V., et al. [1996,eng] 50-4889
- Comment on paper by Papastoridis et al. Hill, S.C., et al. [1996,eng] 50-6336
- Crack velocities in freshwater and saline ice. Petrenko, V.F., et al. [1996,eng] 50-5299

- Dielectric measurement of snow by means of parallel line capacitor. Takei, I., [1996,jpn] 50-3504
- Dielectric properties and microwave remote sensing of snow and ice. Matsuoka, T., et al. [1995,jpn] 50-3511
- Dielectric property of snow. Kuroiwa, D., [1953,eng] 50-3789
- Dipole moment of the water molecule in the condensed phase: a periodic Hartree-Fock estimate. Gatti, C., et al. [1995,eng] 50-3817
- Dispersion-force effects in interfacial premelting of ice. Wilen, L.A., et al. [1995,eng] 50-2134
- Electrical properties of pure and doped ice Ih. Taubenberger, R., [1982,ger] 50-5761
- Estimating sea ice thickness from impulse radar sounding time of flight data. Kovacs, A., et al. [1992,eng] 50-61
- Evidence for ferroelectric ordering of ice Ih. Jackson, S.M., et al. [1995,eng] 50-1573
- Ions and dipoles in water and ice, and their transfer through the interface. Von Hippel, A., et al. [1974,eng] 50-5739
- Modeling of backscattering by non-spherical ice particles for the interpretation of cloud radar signals at 94 GHz. An error analysis. Okamoto, H., et al. [1995,eng] 50-3101
- Reflection coefficient in microwave propagation over snow-covered terrain. Suzuki, M., [1956,eng] 50-3942
- System for detecting ice or snow on surface which specularly reflects light. Stern, H., [1995,eng] 50-3476
- Thermodynamic analysis of the influence of electric fields on frost formation. Ma, H.B., et al. [1995,eng] 50-2156
- Ice distribution**
- See [also]: Ice conditions; Sea ice distribution
- Ice domes**
- See [also]: Pingos
- Ice drift**
- See [also]: Drift
- Ice drills**
- Device for boring holes in ice. Solov'eva, I.U.I.A., [1992,rus] 50-1945
- Hot water drilling in antarctic ice for neutrino detectors. Koci, B.R., et al. [1996,eng] 50-6467
- Report of "Workshop on the Glaciological Technology in Polar Regions". Kamiyama, K., [1995,jpn] 50-661
- See [also]: Ice coring drills
- Ice dusting**
- See [also]: Dusting
- Ice edge**
- 1990 arctic sea ice reduction related to snow cover minima. Serreze, M.C., et al. [1995,eng] 50-773
- Arctic oceanography: marginal ice zones and continental shelves. Smith, W.O., Jr., ed. et al. [1995,eng] 50-1159
- Arctic sea ice extent and thickness. Wadhams, P., [1995,eng] 50-5235
- Atmosphere-ocean interactions in the marginal ice zones of the Nordic seas. Guest, P.S., et al. [1995,eng] 50-1161
- Biogeochemical study in the Bellingshausen Sea: overview of the STERNA 1992 expedition. Turner, D.R., et al. [1995,eng] 50-1021
- Biological processes on arctic continental shelves: ice-ocean-biotic interactions. Grebmeier, J.M., et al. [1995,eng] 50-1166
- Block moraine formation of antarctic glaciers. Fitzsimons, S.J., [1996,eng] 50-6242
- Chemical oceanography of the Arctic and its shelf seas. Anderson, L.G., [1995,eng] 50-1164
- Chlorophyll in the western Bering Sea. Mordasova, N.V., [1995,eng] 50-3605
- Climatic atlas of Labrador Sea seasonal ice concentration. Wang, J., et al. [1991,eng] 50-5259
- Climatological significance of moraine ridges in Iceland. Krüger, J., [1995,eng] 50-2858
- Comparisons between the Okhotsk Sea and the Baltic Sea ice. Shirasawa, K., et al. [1996,eng] 50-5904
- Deglaciation chronology of West Greenland moraines. Van Tatenhove, F.G.M., et al. [1996,eng] 50-5187
- Description of the Martian polar cap breeze. Fernández, W., [1995,eng] 50-3671
- DOC storage in arctic seas: the role of continental shelves. Walsh, J.J., [1995,eng] 50-1165
- Doppler observations of Bering Sea ice edge ocean circulation. Okkonen, S., et al. [1995,eng] 50-1032
- Ecosystem of the sea ice in Antarctica. Rakusa-Suszczewski, S., [1989,pol] 50-2875
- Effects of floating ice cracks on propagation of flexural waves. Bukatov, A.E., et al. [1996,eng] 50-3410
- Engineering repercussions of ocean wave propagation in ice-infested seas. Squire, V.A., [1995,eng] 50-176
- Englacial drainage influence on sediment transport pathways. Kirkbride, M., et al. [1996,eng] 50-6255
- Expedition ARKTIS-XI/2 of RV *Polarstern* in 1995. Krause, G., ed. [1996,eng] 50-5104
- Fifteen years of arctic acoustics and ice camps. Von der Heydt, K., et al. [1996,eng] 50-6667
- Fluctuations of the South Patagonian ice-field during the last glaciation and the Holocene. Morden, C.J., et al. [1995,eng] 50-6211
- Fluctuations of the Vestfonna Ice Margin. Donner, J.J., et al. [1995,eng] 50-4505
- Greenland Sea ice variations recorded by spaceborne photography. Mitchelson-Jacob, E.G., [1996,eng] 50-4292
- History and drainage of large ice-dammed lakes along the Laurentide ice sheet. Teller, J.T., [1995,eng] 50-503

- Ice sheet model test via glacial geological research in West Greenland. Van Tatenhove, F.G.M., et al. [1995,eng] 50-2013
- Ice-edge hydrography between Elephant I. and the South Orkneys, summer 1988-1989. Figueiras, F.G., et al. [1990,spa] 50-5525
- Ice/snow thickness measuring system. Tank, C.L., et al. [1995,eng] 50-716
- Impingement of surface waves on the edge of compressed ice. Bukatov, A.E., et al. [1995,eng] 50-4214
- Last deglaciation of the Franz Victoria Trough, northern Barents Sea. Lubinski, D.J., et al. [1996,eng] 50-6535
- Least average residual algorithm (LARA) for tracking the motion of arctic sea ice. Peddada, S.D., et al. [1996,eng] 50-5686
- Limits on the areal extent of the Barents Sea ice sheet in Late Weichselian time. Lambeck, K., [1996,eng] 50-5307
- Margin of the last Barents-Kara ice sheet at Markhida, northern Russia. Tveranger, J., et al. [1995,eng] 50-2014
- Modelling arctic climate change. Cattle, H., et al. [1995,eng] 50-5227
- Modelling interannual sea ice variability in the Gulf of St. Lawrence. DeTracey, B., [1993,eng] 50-375
- Moraine formation from subglacial frozen sedimentation. Krüger, J., [1996,eng] 50-5830
- Multisensor observations of winter sea ice in the Greenland Sea. Toudal, L., [1994,eng] 50-1514
- New insights on large-scale oceanography in Fram Strait: the West Spitsbergen Current. Gascard, J.C., et al. [1995,eng] 50-1163
- Numerical simulation of the Martian polar cap breeze. Fernández, W., [1995,eng] 50-3672
- Observations of sea ice and icebergs in the western Barents Sea during the winter of 1987. Løset, S., et al. [1995,eng] 50-213
- Ocean Drilling Program in Fram Strait and prediction of ice-free conditions. Wadhams, P., et al. [1995,eng] 50-215
- Of ocean waves and sea ice. Squire, V.A., et al. [1995,eng] 50-5241
- Origin and structure of a numerically simulated polar low over Hudson Bay. Albright, M.D., et al. [1995,eng] 50-2526
- Pelagic bryozoan from Antarctica. Peck, L.S., et al. [1995,eng] 50-1827
- Phytoplankton response to fluctuating UVB. Karentz, D., et al. [1995,eng] 50-1323
- Phytoplankton seasonal bloom shift in Barents Sea ice. Strass, V.H., et al. [1996,eng] 50-6721
- Plankton dynamics in the Barents Sea marginal ice zone. Hansen, B., et al. [1996,eng] 50-3528
- Pleistocene glaciation of the Outer Hebrides, Scotland. Ballantyne, C.K., et al. [1995,eng] 50-6212
- Polar sea ice off West Greenland—a review. Fabricius, J.S., et al. [1995,eng] 50-2972
- Primary productivity and microbial variations in the Chukchi Sea. Cota, G.F., et al. [1996,eng] 50-5457
- Radionuclide distribution in the marginal ice zone in the Bellingshausen Sea. Shimmield, G.B., et al. [1995,eng] 50-1029
- Real time oil spill forecasting during an experimental oil spill in the arctic ice. Reed, M., et al. [1994,eng] 50-1685
- Reduction of weather effects in the calculation for sea-ice concentration with the DMSP SSM/I. Cavalieri, D.J., et al. [1995,eng] 50-1867
- Report of the International Ice Patrol in the North Atlantic, 1994 season. U.S. Coast Guard, [1994,eng] 50-52
- Response of a circular ice floe to ocean waves. Meylan, M.H., et al. [1996,eng] 50-5264
- SAR observations of arctic freeze-up compared to SSM/I during ARCTIC91. Petterson, M.I., et al. [1996,eng] 50-6694
- Satellite mapping and monitoring of sea ice. Smith, D.M., et al. [1994,eng] 50-5197
- Satellite remote sensing of the Arctic Ocean and adjacent seas. Comiso, J.C., [1995,eng] 50-1160
- Satellite tracking of high-arctic northern fulmars. Falk, K., et al. [1995,eng] 50-718
- Sea ice concentrations derived from SMMR and SSM/I. Björge, E., et al. [1994,eng] 50-1513
- Sea ice off the Icelandic coasts, October 1987-September 1988. [1988,ice] 50-3556
- Sea ice off the Icelandic coasts, October 1988-September 1989. [1990,ice] 50-3557
- Sea-ice evolution in the Amundsen and Bellingshausen Seas. Jacobs, S.S., [1994,eng] 50-2226
- Small ice cap instability in the presence of fluctuations. Lee, W.H., et al. [1995,eng] 50-641
- Small-scale physical processes in the Arctic Ocean. Padman, L., [1995,eng] 50-1162
- Snow and ice characteristics of the Bellingshausen Sea, during the spring melt. Aldworth, E., [1995,eng] 50-1022
- Spaceborne photography of Spitsbergen marginal ice zone. Kergomard, C., [1989,fre] 50-5029
- Spaceborne radiometry of Barents Sea ice cover variations. Björge, E., et al. [1994,eng] 50-5077
- Spatial and temporal variability in southern ocean sea ice coverage. Stammerjohn, S.E., [1993,eng] 50-5520
- Spring-bloom time-series at the Bering Sea ice edge pt.1. Niebauer, H.J., et al. [1995,eng] 50-1031
- Suspended particulates and plankton during retreat of the marginal ice zone in the Bellingshausen Sea. Robins, D.B., et al. [1995,eng] 50-1026
- Tectonic records derived from petrology at a glacier fringe. Pavlis, T.L., et al. [1995,eng] 50-1833

Ice elasticity

- Thermal regime of Holocene Greenland ice sheet moraine formation. Van Tatenhove, F.G.M., et al. [1996,eng] 50-5582
- Turbulence in the statically unstable oceanic boundary layer under arctic leads. McPhee, M.G., et al. [1996,eng] 50-4297
- Vertical particle flux on the shelf off northern Spitsbergen, Norway. Andreassen, I., et al. [1996,eng] 50-6566
- Younger Dryas ice-marginal deposits in Norway. Andersen, B.G., et al. [1995,eng] 50-511
- Younger Dryas ice-marginal zone in Sweden. Lundqvist, J., [1995,eng] 50-512
- Younger Dryas margin of the Scandinavian ice sheet—an introduction. Andersen, B.G., et al. [1995,eng] 50-510

Ice elasticity

- Constitutive equations and fracture models for sea ice. Rodin, G.J., et al. [1995,eng] 50-6292
- Coupling and propagation of elastic waves in arctic pack ice. Jarvis, S.M., et al. [1994,eng] 50-5178
- Crack nucleation in columnar ice—recent developments. Gupta, V., et al. [1995,eng] 50-2958
- Effects of floating ice cracks on propagation of flexural waves. Bukatov, A.E., et al. [1996,eng] 50-3410
- Elastic constants of ice VI by Brillouin spectroscopy. Tulk, C.A., et al. [1996,eng] 50-5506
- Elastic fracture mechanics and fracture propagation in rock and ice. Fischer, M.P. [1994,eng] 50-696
- Elasto-delayed-elastic simulation of short-term deflection of fresh-water ice covers. Sinha, N.K., et al. [1996,eng] 50-5474
- Electromechanical phenomena in ice. Petrenko, V.E., [1996,eng] 50-4546
- Engineering repercussions of ocean wave propagation in ice-infested seas. Squire, V.A., [1995,eng] 50-176
- Field and laboratory experiments and modeling of the constitutive behavior of sea ice. Cole, D.M., [1995,eng] 50-6280
- Fracture toughness of freshwater ice—part I: experimental technique and results. Weber, L.J., et al. [1996,eng] 50-5158
- High-pressure elastic properties of the VI and VII phase of ice in dense H₂O and D₂O. Shimizu, H., et al. [1996,eng] 50-4355
- Ice surface oscillation measurements on SIMI using strain, heave and tilt sensors. Wadhams, P., et al. [1995,eng] 50-6306
- Mass dependence of energy loss in collisions of icy spheres: an experimental study. Dilley, J., et al. [1996,eng] 50-5196
- Model of ductile behavior of columnar grained sea ice. Zhan, C., et al. [1996,eng] 50-5184
- Model of shoreward movement of grounded lake ice. Sasaki, T., et al. [1995,eng] 50-3329
- Of ocean waves and sea ice. Squire, V.A., et al. [1995,eng] 50-5241
- On dynamics of ice-structure interaction. Kajaste-Rudninski, J., [1995,eng] 50-4169
- Orientation dependence of elastic constants for ice. Parameswaran, V.R. [1987,eng] 50-4223
- Physical processes in ice cover. Smirnov, V.N., et al. [1995,eng] 50-6315
- Propagation of elastic waves in ice. Ryzhkin, I.A., [1984,eng] 50-5787
- Sea ice landing strip for Boeing-727 in northern Greenland. Sinha, N.K., [1995,eng] 50-2973
- Simulation of sea ice behaviour—a parametric study. Evgin, E., et al. [1995,eng] 50-2952
- Stresses in sea ice in the neighboring force interaction zone. Nikitin, V.A., et al. [1995,eng] 50-5522
- Surface wave diffraction at a system of cracks in the ice cover. Goldshtein, R.V., et al. [1995,eng] 50-2949
- Unified viscoplastic model for the inelastic behavior of ice. Lee, J.H., et al. [1996,eng] 50-6176
- Ice electrical properties**
- Artificial ice tests for long insulator strings. Wu, D., et al. [1996,eng] 50-5341
- Artificial rime-covering and discharge test of long insulator strings. Su, F.H., et al. [1996,eng] 50-5390
- Atmospheric electricity and charge transfer from temperature gradients in ice. Latham, J., [1967,eng] 50-5786
- Conductivity effects on electromagnetic emissions (EME) from ice fracture. O'Keefe, S.G., et al. [1996,eng] 50-4221
- DC characteristics of local arc on ice surfaces. Farzaneh, M., et al. [1996,eng] 50-5344
- Effect of air bubbles in ice on charge transfer produced by asymmetric rubbing. Latham, J., [1965,eng] 50-3951
- Effect of ice and atmospheric pressure on insulator flashover. Shu, L.C., et al. [1996,eng] 50-5388
- Effects of high voltage on the structure of ice. Farzaneh, M., et al. [1996,eng] 50-5387
- Electric field effects on growing ice surface force curves. Slaughterbeck, C.R., et al. [1996,eng] 50-5939
- Electrical properties of ice. Gross, G.W., [1970,eng] 50-5754
- Electrical properties of pure and doped ice Ih. Taubenberger, R., [1982,ger] 50-5761
- Electrification associated with the evaporation of ice. Latham, J., et al. [1965,eng] 50-3950
- Electrification mechanisms of snow crystals (Part I). Endoh, T., [1981,eng] 50-5790
- Electrification mechanisms of snow crystals (Part II). Endoh, T., [1981,eng] 50-5799
- Electrolytical processes in dirty planetary ices. Drobyshevskii, E.M., et al. [1995,eng] 50-655
- Electromechanical phenomena in ice. Petrenko, V.E., [1996,eng] 50-4546

- Electron-stimulated dissociation of amorphous ice. Kimmel, G.A., et al. [1995,eng] 50-2160
- Experiments of the charging mechanism of ice particles by the ion-capture process. Asuma, Y., et al. [1983,eng] 50-5797
- Factors influencing flashover characteristics along ice surfaces. Chen, X., et al. [1996,eng] 50-5343
- Flashover between power lines caused by ice shedding. Savadjev, K., et al. [1996,eng] 50-5386
- Flashover on ice surfaces. Farzaneh, M., et al. [1996,eng] 50-5389
- Ice detection apparatus for transportation safety. Stolarczyk, L.G., et al. [1995,eng] 50-3475
- Ice thickness measurement reflectometer. Glynn, D.P., et al. [1995,eng] 50-3478
- Influence of temperature on microdischarges between ice particles. Coquillat, S., et al. [1996,eng] 50-5385
- Insulators in icing conditions: selection and measures for reliability increasing. Sklenicka, V., et al. [1996,eng] 50-5342
- Ions and dipoles in water and ice, and their transfer through the interface. Von Hippel, A., et al. [1974,eng] 50-5739
- Leakage resistance of iced insulators and chemical data of ice and snow. Sugawara, N., et al. [1996,eng] 50-5384
- Measurements of crack velocity in sea ice using electromagnetic techniques. Petrenko, V.F., et al. [1995,eng] 50-6291
- Positive ion depletion in a noctilucent cloud. Balsiger, F., et al. [1996,eng] 50-3604
- Radar observation of cloud electrification during thunderstorms. Jameson, A.R., et al. [1996,eng] 50-3965
- Radar observation of cloud ice crystal alignment to predict lightning. Kreibiel, P., et al. [1996,eng] 50-4599
- Role of ice geometry and impact velocity in thunderstorm electrification. Latham, J., et al. [1965,eng] 50-3949
- Structure of ice grown on high voltage conductors. Farzaneh, M., et al. [1995,eng] 50-208
- Study of minimum flashover voltage of iced-covered suspension insulators. Shu, L.C., et al. [1996,eng] 50-5345
- Surface conductivity and flashover voltages of ice covered insulators. Farzaneh, M., et al. [1995,eng] 50-207
- Temperature dependence of static charging in ice growing by riming. Avila, E.E., et al. [1995,eng] 50-3004
- Ice erosion**
- Amorphous ice molecular transitions under electron bombardment. Kimmel, G.A., et al. [1995,eng] 50-156
- Arctic coastal plain shorelines. Hill, P.R., et al. [1994,eng] 50-492
- Build-up, decay and role of the sea-ice cover of the Liefdehoofd, NW Spitsbergen. King, L., et al. [1994,ger] 50-1596
- Electron-stimulated dissociation of amorphous ice. Kimmel, G.A., et al. [1995,eng] 50-2160
- Erosion on Titan: past and present. Lorenz, R.D., et al. [1996,eng] 50-5832
- Hydraulic conductivity of frozen granular soils. Andersland, O.B., et al. [1996,eng] 50-4048
- Iceberg furrows as paleowind indicators in Lake Ojibway. Veillette, J.J., et al. [1996,eng] 50-2498
- Initiation and development of natural ground ice exposures. Canadian Arctic. Lewkowicz, A.G., [1990,eng] 50-1633
- Lake Erie ice scour study. Lake, K., [1991,eng] 50-491
- Light flash and ionization from hypervelocity impacts on ice. Burchell, M.J., et al. [1996,eng] 50-6530
- Marine ice bottom gouging: some mechanisms and an approach to depth evaluation. Riabinin, V.E., et al. [1995,eng] 50-6314
- Mechanisms of ice gouging. Kioka, S., et al. [1995,eng] 50-194
- New laser plasma source for extreme-ultraviolet lithography. Jin, F., et al. [1995,eng] 50-3678
- Reactivity of imidazoles in pulse and γ -irradiated liquid and frozen systems. Kalecińska, E., et al. [1996,eng] 50-3527
- Relation between gouging force and the shape of ice floe. Terai, Y., et al. [1996,eng] 50-5887
- Sea ice induced gouging of the sea floor. Weeks, W.F., et al. [1995,eng] 50-6302
- Sputtering of ices in the outer solar system. Johnson, R.E., [1996,eng] 50-5296
- Sputtering of water ice surfaces and the production of extended neutral atmospheres. Shi, M., et al. [1995,eng] 50-2774
- Tree-ring dating of extreme water level events at Lake Bienville, subarctic Québec, Canada. Lepage, H., et al. [1996,eng] 50-4339
- Ultraviolet photodesorption from water ice. Westley, M.S., et al. [1995,eng] 50-3024
- Ice evaporation**
- See [also]: Ice sublimation
- Ice floes**
- Breakthrough loads of floating ice sheets: small-scale tests with urea model ice. Sodhi, D.S., [1995,eng] 50-2939
- Demonstration of operational sea-ice monitoring in the Baltic Sea with ERS-1 SAR. Herland, E.A., et al. [1995,eng] 50-1820
- Dissolved organic matter in arctic sea ice. Thomas, D.N., et al. [1995,eng] 50-717
- Distributed mass/discrete floe model for predicting pack ice motion. Matsuzawa, T., et al. [1996,eng] 50-5886
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1995,eng] 50-4247
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1996,eng] 50-5810
- Drift tests of model floes in a circulation water channel. Rheem, C.K., et al. [1996,eng] 50-4432

Ice forecasting

- Dynamic impact between a viscoelastic ice floe and a rigid structure. Morland, L.W., [1996,eng] 50-3824
- Effects of prestressing on floating ice sheets. Quimby, T.B., et al. [1995,eng] 50-2943
- Estimating sea ice thickness from impulse radar sounding time of flight data. Kovacs, A., et al. [1992,eng] 50-61
- Gulf Canada probabilistic ice load model: operation and parametric sensitivity study. Watson, D.A., et al. [1995,eng] 50-1413
- Hydraulic resistance acting on ice floes. Kawai, K., et al. [1996,jpn] 50-5885
- Ice buoy tests of Barents Sea tidal motions. Pease, C.H., et al. [1995,eng] 50-2776
- Ice processes at the 1 km scale. Hopkins, M.A., et al. [1995,eng] 50-6297
- Laboratory tests for ice interaction with steel booms. Timco, G.W., et al. [1996,eng] 50-5812
- Least average residual algorithm (LARA) for tracking the motion of arctic sea ice. Peddada, S.D., et al. [1996,eng] 50-5686
- Model of mesoscale motions of ice caused by convective flows. Goldshtein, R.V., et al. [1995,eng] 50-2948
- North-East Water polynya: satellite observations summer 1992 and 1993. Gudmandsen, P., et al. [1995,eng] 50-1814
- Observations on a plug of old sea ice in the entrance to Nansen Sound, Ellesmere Island. Sadler, H.E., et al. [1981,eng] 50-46
- Of ocean waves and sea ice. Squire, V.A., et al. [1995,eng] 50-5241
- On the ice-ocean response to wind forcing. Omstedt, A., et al. [1996,eng] 50-6666
- On the structure of pressured sea ice. Kovacs, A., [1970,eng] 50-3835
- Pack ice stresses and their relationship to regional deformation. Richter-Menge, J.A., et al. [1995,eng] 50-6287
- Panel report on the 10 km scale—floe cluster. Overland, J.E., et al. [1995,eng] 50-6296
- Regional and floe-floe deformation. Overland, J.E., et al. [1995,eng] 50-6286
- Relation between gouging force and the shape of ice floe. Terai, Y., et al. [1996,jpn] 50-5887
- Relation between sea ice loads and arctic offshore structures. Blanchet, D., et al. [1991,eng] 50-1721
- Response of a circular ice floe to ocean waves. Meylan, M.H., et al. [1996,eng] 50-5264
- Sea ice scouring on the inner shelf of the southeastern Canadian Beaufort Sea. Héquette, A., et al. [1995,eng] 50-1830
- Seasonal variability of sea ice sizes and thickness on the northern Sakhalin shelf. Polomoshnov, A.M., et al. [1995,eng] 50-189
- Self-excited oscillations in ice floes and icebergs. Smirnov, V.N., et al. [1995,eng] 50-2946
- Simulation of ice floe movement around an ocean structure. Rheem, C.K., et al. [1996,eng] 50-4433
- Spaceborne photography of Spitsbergen marginal ice zone. Kerger, G., [1989,fr] 50-5029
- Structure of internal stresses in the uncompacted ice cover. Sukhorukov, K.K., [1995,eng] 50-193
- Wave-pancake ice interactions. Shen, H.H., et al. [1994,eng] 50-2221
- Wind-induced ice floe rotation and icequakes north of the Alaskan Beaufort Sea coast. Kozo, T.L., et al. [1996,eng] 50-6508
- Yield conditions of an assembly of discrete ice floes. Sayed, M., et al. [1995,eng] 50-182
- Ice fog**
- Climatology of high-latitude air pollution as illustrated by Fairbanks and Anchorage, Alaska. Bowling, S.A., [1986,eng] 50-4910
- Comparison of air temperature and humidity in standard and experimental shelters at Lomnický štít. Gajar, B., et al. [1991,eng] 50-3523
- Ice toss. Rice, D., [1996,eng] 50-5083
- Ice-crystal fogs of central Sakha. Osipov, D.A., [1995,eng] 50-4702
- Morphological studies on the polycrystalline snow germs. Kikuchi, K., et al. [1992,eng] 50-6644
- Ice forecasting**
- Accretion of monodisperse droplets on a thin wire. Prodi, F., et al. [1996,eng] 50-5393
- Aircraft icing forecasts for instrument flight rules. Bertorelli, P., [1992,eng] 50-3761
- Aircraft icing over northwest Europe. Ashley, H., [1979,eng] 50-4402
- Aircraft icing risk assessment for instrument flight rules. Bertorelli, P., [1992,eng] 50-3759
- Analogue computer for solving growth problems of floating ice. Schwerdtfeger, P., [1964,eng] 50-4608
- Analyses of conductor ice accretion and meteorological characteristics. Luo, N., et al. [1996,eng] 50-5376
- Analysis of coastal ice cover using ERS-1 SAR data. Leshkevich, G., et al. [1995,eng] 50-1822
- Anemometer for transmission line maintenance in heavy icing areas. Ozawa, A., et al. [1996,eng] 50-5395
- Automated aircraft icing forecast technique project report. Manur, M.V., [1984,eng] 50-4619
- Automated approach to the sea-ice motion estimation. Mocím, zuma Flores, M., et al. [1994,eng] 50-5175
- Aviation meteorology for visual and instrument flight rules: aircraft icing. McCool, K.B., [1992,eng] 50-3706

Ice formation

- Cable galloping model for thin ice accretions. McComber, P., et al. [1996,eng] 50-5381
- Calibration of anemometers for use in icing conditions. Makkonen, L., et al. [1996,eng] 50-5348
- Case study: freeze-up and jamming on the Peace River at Peace River. Andres, D.D., [1995,eng] 50-792
- Choosing the route of overhead lines in the Czech Republic. Zálešák, Z., et al. [1996,eng] 50-5398
- Climate of freezing rain over the province of Québec in Canada: a preliminary analysis. Laflamme, J.N., et al. [1996,eng] 50-5333
- Comparison of aircraft icing forecast models. Cornell, D., et al. [1995,eng] 50-2471
- Data filtering for thermal mapping of road surface temperatures. Shao, J., et al. [1995,eng] 50-775
- Demonstration project to supply near real time sea ice information. Blackford, C., et al. [1994,eng] 50-1516
- Detection of possible aircraft icing in clouds by passive-active radars. Tarabukin, I.A., et al. [1992,eng] 50-3569
- Determination of liquid water altitudes using combined remote sensors. Politovich, M.K., et al. [1995,eng] 50-1414
- Development of an ice information system (IIS) to be implemented at the NERSC. Jacob, A., [1995,eng] 50-2742
- Distributed mass/discrete floe model for predicting pack ice motion. Matsuzawa, T., et al. [1996,jpn] 50-5886
- Drift ice off Hokkaido. [1992,jpn] 50-486
- Dynamics of river ice jam release. Shen, H.T., et al. [1996,eng] 50-6156
- Efficacy of ice detector hoarfrost observations. Ryerson, C.C., et al. [1996,eng] 50-4033
- Eking out icing info. Hamm, J., [1995,eng] 50-3687
- Evaluation of aircraft icing forecasts for the continental United States. Politovich, M.K., et al. [1991,eng] 50-3267
- Evaluation of the proposed ASOS freezing rain sensor. Ramsay, A.C., [1996,eng] 50-4034
- Failures of overhead lines due to ice and wet snow in Serbia. Vuković, Z., et al. [1996,eng] 50-5365
- Field observations and measurements of ice jams. Petryk, S., et al. [1995,eng] 50-791
- Focus 2000: wind, ice, and fog. Annual Mount Washington Observatory Symposium, 4th, North Conway, NH, June 23-24, 1995, [1996,eng] 50-4027
- Freezing-rain reporting capability of the Automated Surface Observing System (ASOS). Ramsay, A.C., [1996,eng] 50-5334
- Ground and aircraft weather observations and in-flight aircraft icing. Bernstein, B.C., et al. [1996,eng] 50-5373
- Ice accumulation on fixed and floating ocean structures. Minsk, L.D., [1975,eng] 50-5755
- Ice conditions along the North-East Passage in view of ship trafficability studies. Riska, K., [1995,eng] 50-198
- Ice is where you find it. Stenblik, J.W., [1995,eng] 50-4705
- Ice jam processes. Beltoas, S., [1995,eng] 50-786
- Ice prediction systems for runways. Haavasoja, T., et al. [1991,eng] 50-3268
- Ice storm data base and ice severity map. Shan, L., et al. [1996,eng] 50-5330
- Iceberg-structure interaction probabilities for design. Fuglem, M., et al. [1996,eng] 50-5052
- Icing conditions encountered by a research aircraft. Sand, W.R., et al. [1984,eng] 50-4493
- Icing of wind turbine rotor blades during operation. Seifert, H., [1992,eng] 50-3631
- Icing rate meter estimation of transmission line icing. McComber, P., et al. [1996,eng] 50-4031
- Improved numerical model for wind turbine icing. Finstad, K.J., et al. [1996,eng] 50-5391
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1995,eng] 50-2954
- Interannual variability of the ice cover in the Chukchi and Beaufort Seas. Chouinard, L.E., et al. [1995,eng] 50-187
- Intercomparison of mesoscale forecasts of aircraft icing using SSM/I retrievals. Tremblay, A., et al. [1996,eng] 50-4524
- Joint probability of environmental loads on marine structures. Liu, D.F., et al. [1995,eng] 50-196
- Labrador Sea atmospheric circulation/sea-ice anomalies. Newell, J.P., [1996,eng] 50-6227
- Low cloud icing climatological data. Takasugi, S., [1970,eng] 50-4405
- Mesoscale and microscale characteristics of a CASP II severe ice pellet storm. Hanesiak, J.M., [1994,eng] 50-4170
- Methods to estimate ice accumulations on surface structures. Schaub, W.R., Jr., [1996,eng] 50-5360
- Model for spraying and three-dimensional icing on a stern trawler. Chung, K.K., et al. [1995,eng] 50-2955
- Modeling of ice thickness in manure pits. Carrier, D., et al. [1995,fre] 50-5658
- Modeling power line icing in freezing precipitation. Makkonen, L., [1996,eng] 50-5362
- Modelling interannual sea ice variability in the Gulf of St. Lawrence. DeTracey, B., [1993,eng] 50-375
- Monitoring and modelling the ice conditions offshore Greenland. Valeur, H.H., et al. [1995,eng] 50-2971
- National climatic reference base for exceptional wet snow and rime ice episodes. Raison, T., et al. [1996,eng] 50-5331
- New ideas on aircraft icing forecast: first example and experiences. Fuchs, W., et al. [1995,eng] 50-203
- Numerical forecasting of liquid water content to assess airframe icing risk. Lunnon, R.W., [1991,eng] 50-3266

- Numerical model simulation of a summer reversal of the Beaufort gyre. Preller, R.H., et al. [1989,eng] 50-4706
- Numerical modelling of ice jams. Petryk, S., [1995,eng] 50-788
- Numerical simulation of aircraft icing on wings and nacelles. Brahimi, M.T., et al. [1996,eng] 50-5392
- Numerical simulation of river ice processes. Shen, H.T., et al. [1995,eng] 50-355
- Numerical study of iced conductors aerodynamics. Ilincă, A., et al. [1996,eng] 50-5336
- Ocean Drilling Program in Fram Strait and prediction of ice-free conditions. Wadhams, P., et al. [1995,eng] 50-215
- Physical modeling of ice jams. Wuebben, J.L., [1995,eng] 50-789
- Polar sea ice off West Greenland—a review. Fabricius, J.S., et al. [1995,eng] 50-2972
- Potential icing forecast compared with NOAA-14 images. Fuchs, W., et al. [1996,eng] 50-5374
- Potential resistance of the Kara Sea ice cover. Gavrilov, V.P., et al. [1995,eng] 50-185
- Precipitation and river runoff in an ice-ocean model of the Arctic. Weatherly, J.W., [1994,eng] 50-675
- Prediction model for complete ice cover formation in partly open water. Sasaki, N., et al. [1996,eng] 50-4480
- Procedure for estimating ice load on overhead wires based on short term observations. Sakamoto, Y., et al. [1996,eng] 50-5363
- Proceedings. IWAIS '96. International Workshop on Atmospheric Icing of Structures, 7th, Chicoutimi, Quebec, June 3-7, 1996, [1996,eng] 50-5329
- Proceedings. Vol.2. International Offshore and Polar Engineering Conference, 5th, Hague, Netherlands, June 11-16, 1995, [1995,eng] 50-175
- Proceedings. International Experts' Meeting on Wind Power in Icing Conditions, Helsinki, Finland, 1992. Boreas-North Wind-Pohjanuoli, [1992,eng] 50-3626
- Production and depletion of supercooled liquid water in a Colorado winter storm. Politovich, M.K., et al. [1995,eng] 50-3560
- Program to improve aircraft icing forecasts. Sand, W.R., et al. [1991,eng] 50-3265
- Proposed icing severity index based upon meteorology. Politovich, M.K., et al. [1991,eng] 50-3263
- Review of modelling the thermodynamics of floating ice. Savage, S.B., et al. [1996,eng] 50-6488
- Rime climate in Sodankylä. Säänti, K., et al. [1992,eng] 50-3630
- River ice jams. Beltoas, S., ed. [1995,eng] 50-783
- River ice motion detector. Zufelt, J.E., et al. [1995,eng] 50-889
- Romanian experience in meteorological zoning for designing of overhead lines (OLs). Goia, L.M., [1996,eng] 50-5332
- Rotating multicylinder for measuring cloud water content and droplet size. Jones, K.F., et al. [1996,eng] 50-4032
- Sea ice forecasting for ship routing and operations. Pritchard, R.S., et al. [1995,eng] 50-6301
- Sea-ice velocity fields estimation on Ross Sea with NOAA-AVHRR. Moezuma Flores, M., et al. [1995,eng] 50-983
- Short term variations of sea ice cover. Chouinard, L.E., et al. [1995,eng] 50-186
- Simple model for freezing rain ice loads. Jones, K.F., [1996,eng] 50-5399
- Simulation and observation of ice formation (freeze-over) in a lake. Fang, X., et al. [1996,eng] 50-5466
- Spaceborne radar imagery for ice reporting in the Baltic Sea. Hakansson, B., et al. [1995,eng] 50-1821
- Specialized ice information for planning sea operations along the NSR. Brovin, A.I., et al. [1996,eng] 50-4428
- Structure-independent measurement of icing. Makkonen, L., [1992,eng] 50-3629
- Theory of ice jams. Beltoas, S., [1995,eng] 50-787
- Three-dimensional simulation of river ice jams. Hopkins, M.A., et al. [1996,eng] 50-6155
- Tips on avoiding low-level icing. Schuyler, N., [1986,eng] 50-4403
- Unique aircraft icing event—a case study. Peters, J.L., [1990,eng] 50-4404
- United States Navy operational oceanographic nowcast/forecast system. Durham, D.L., [1994,eng] 50-5176
- Validation of ice accretion models for freezing precipitation using field data. Haldar, A., et al. [1996,eng] 50-5361
- Variability of arctic sea ice along the Northern Sea Route. Ono, N., [1996,eng] 50-4477
- Vertical structure of the currents on the Newfoundland shelf. Narayanan, S., et al. [1995,eng] 50-5934
- Ice formation**
- Adsorption and desorption of water on single crystal MgO(100): the role of surface defects. Sürnman, M.J., et al. [1996,eng] 50-5937
- Aircraft icing handbook. [1993,eng] 50-5064
- Aircraft-generated aerosols and visible contrails. Kärcher, B., [1996,eng] 50-6544
- Analysis of ice-formation in a stenotic tube. Suh, J.S., et al. [1996,eng] 50-6460
- Analytical study of frost nucleation and growth during the crystal growth period. Şahin, A.Z., [1995,eng] 50-44
- Augmentation or suppression of ice accumulation on a cold flat-plate in water-flow channel. Hirata, T., et al. [1996,eng] 50-6462
- Bacterial ice nucleation and its potential applications in the food industry. Li, J.K., et al. [1995,eng] 50-1956

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- Characteristics of the crystallization of water in unsaturated soils. Golubev, V.N., [1996,rus] 50-6810
- Characteristics of the geocryological conditions in shallow water areas in the cryolithozone. Buldovich, S.N., [1996,rus] 50-6389
- Cold acclimatization biochemistry of rapeseed tissues. Smoleńska-Sym, G., et al. [1996,eng] 50-5463
- Comments on "The impact of the ice phase and radiation on a midlatitude squall system". Braun, S.A., et al. [1996,eng] 50-5476
- Competition of precipitation particles in a model with parameterized cloud microphysics. Wacker, U., [1995,eng] 50-413
- Conditions of the occurrence and structure of layered deposits of ground ice. Koreisha, M.M., et al. [1983,rus] 50-313
- Convection induced polynyas during the freezing of antarctic seawater. Hadji, L., [1996,eng] 50-6452
- Cosmoglaciology: evolution of ice in interstellar space and the early solar system. Kouchi, A., et al. [1995,eng] 50-1030
- Design of capacitor to measure permittivity of supercooled aqueous solutions. Wolter, F., et al. [1996,eng] 50-5503
- Development of models of freezing and convection during cryogenic pipe freezing. Keary, A.C., et al. [1996,eng] 50-6464
- Device for creating a spring ice jam. Ilarov, N.A., et al. [1992,rus] 50-1903
- Device for preventing water from freezing. Turutina, B.F., et al. [1992,rus] 50-1950
- Device for protecting a pipeline from freezing. Diachenko, K.S., et al. [1992,rus] 50-1916
- Diffuse interface analysis of ice nucleation in undercooled water. Gránásky, L., [1995,eng] 50-1279
- Distribution of seasonal net production of sea ice on the Arctic Ocean. Kakuta, S., et al. [1996,eng] 50-5894
- Effect of electroporation on intracellular ice formation in rye leaf protoplasts. Chandrasekaran, M., et al. [1995,eng] 50-1465
- Effect of sea ice on the salinity of antarctic bottom waters. Toggweiler, J.R., et al. [1995,eng] 50-336
- Electrification of thunderstorm cells during cloud ice formation. Ramachandran, R., et al. [1996,eng] 50-3020
- Estimating ice-active bacterial population on mango leaves. Cazorla, F.M., et al. [1995,eng] 50-1652
- Exclusion of sodium chloride from ice during freezing. Cragin, J.H., [1995,eng] 50-3131
- Experimental verification of a pendant ice formation model. Szilder, K., et al. [1995,eng] 50-206
- Fall phytoplankton biomass. P-I relationships and primary production in the Weddell Sea. Dower, K.M., et al. [1996,eng] 50-4008
- Flowthrough rockfill embankments: behavior in subzero temperatures. Hansen, D., et al. [1995,eng] 50-1841
- Formation mechanism of the marginal zone of the Warta ice sheet. Terpiłowski, S., [1993,pol] 50-3666
- Formation of condensates on dust in interstellar clouds. Duley, W.W., et al. [1995,eng] 50-3290
- Formation of ice between hydrotalcite particles measured by thermoporometry. Titulaer, M.K., et al. [1996,eng] 50-6330
- Formation of ice layers in a straight walled, rectangular diffuser. Neumann, S.O., et al. [1996,eng] 50-6469
- Frazil evolution in channels. Hammar, L., et al. [1995,eng] 50-647
- Freeze closing of a convectively cooled parallel plate channel. Lipnicki, Z., et al. [1996,eng] 50-6461
- Freeze concentration by layer crystallization. Flesland, O., [1995,eng] 50-5943
- Freezing characteristics of rigid plant tissues. Rajashekar, C.B., et al. [1996,eng] 50-6554
- Freezing of a liquid jet on the inside surface of a cold pipe. Naraghi, M.N., [1994,eng] 50-691
- Freezing of a salt solution in a packed bed. Chelliah, S., et al. [1995,eng] 50-2956
- Freezing point depression by common salts: implications for corrosion in cold climates. Brass, G.W., [1996,eng] 50-5951
- Freezing point depression of water in concrete aggregates. Salcedo, M.A., et al. [1995,eng] 50-2634
- Frost durability of high strength concrete: effect of internal cracking on ice formation. Jacobsen, S., et al. [1996,eng] 50-6097
- Frost durability of high-performance concrete. Marchand, J., et al. [1995,eng] 50-2640
- Fundamentals of ice lens formation. Takagi, S., [1975,eng] 50-3390
- Glaciology of the McMurdo Ice Shelf in the area of air operations. Klokov, V., et al. [1995,eng] 50-1194
- Heat budget of a midlatitude squall line and implications for potential vorticity production. Braun, S.A., et al. [1996,eng] 50-5475
- Heat flux from leads in pack ice from a Landsat TM image. Lindsay, R.W., [1994,eng] 50-5179
- Heat transfer during the freezing of water in a cylinder. Yim, C.S., et al. [1996,eng] 50-6466
- High-density amorphous ice, the frost on interstellar grains. Jenniskens, P., et al. [1995,eng] 50-2780
- History of cold regions heat transfer: chronology. Cheng, K.C., et al. [1996,eng] 50-6433
- Hoods, mists, frosts, and ice caps at the poles of Mars. Dollfus, A., et al. [1996,eng] 50-5194
- Hydrogen species partitioning in the arctic stratosphere. Schiller, C., et al. [1996,eng] 50-5766
- Ice active bacteria gene dynamics. Drains, C., et al. [1995,eng] 50-2347

Ice formation indicators

- Ice conditions in Zalew Szczecinski (Stettiner Haff) during the winter 1994/95. Schmelzer, N., et al. [1995,eng] 50-4536
- Ice propagation in concrete. Wang, K., et al. [1995,eng] 50-2633
- Ice tank tests on pressure ridge formation. Lensu, M., et al. [1995,eng] 50-4582
- Ice-core analysis for sea-ice development in Ross, Amundsen and Bellingshausen seas, 1993 and 1994 winters. Jeffries, M.O., et al. [1995,eng] 50-6503
- Ice-nucleation properties of various bacterial species. Kipriano, E.A., et al. [1995,eng] 50-3673
- Ice-pavement bond disbonding—fundamental study. Blackburn, R.R., et al. [1993,eng] 50-876
- Ice-thermal regime at front deltas of rivers of the Laptev Sea. Nalimov, I.U.V., [1995,eng] 50-2070
- Ice-wedge formation in northern Asia during the Holocene. Vasil'chuk, I.U.K., et al. [1996,eng] 50-6705
- Impact crater lakes on Mars. Newsom, H.E., et al. [1996,eng] 50-5777
- Influence of supercooling on salt-water saturated porous medium. Okada, M., et al. [1996,eng] 50-6762
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1995,eng] 50-2954
- Insects and freezing. Block, W., [1995,eng] 50-4087
- Interaction of katabatic winds and the formation of blue-ice areas in East Antarctica. Van den Broeke, M.R., et al. [1995,eng] 50-459
- Interface location and flow visualization in water-ice systems. Elkouh, N., et al. [1996,eng] 50-6459
- Investigation of the stress development during cryogenic pipe freezing. Keary, A.C., et al. [1996,eng] 50-6438
- Isotope techniques in permafrost investigations. Michel, F.A., [1989,eng] 50-2261
- Kinetics of the freezing of water in dispersed soils (experiment, theory). Grechishchev, S.E., et al. [1996,rus] 50-6811
- Land application turns wastewater into ice cubes. Madison, M., et al. [1994,eng] 50-2122
- Lidar observations of polar stratospheric cloud growth. Poole, L.R., et al. [1988,eng] 50-4634
- Method for continuous measurement of ice cover thickness. Nordell, B., et al. [1995,eng] 50-1145
- Microscopy of xylem ray supercooling wood tissues response to freezing stress. Ristic, Z., et al. [1995,eng] 50-3341
- Modeling of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996,eng] 50-6715
- Modelling of frost formation in rotary heat exchangers. Bilo-deau, S., et al. [1996,eng] 50-6477
- Modelling of ice formation processes in freezing soils. Gorelik, I.A.B., et al. [1996,rus] 50-6813
- Moisture uptake and service life of concrete exposed to frost. Fagerlund, G., [1995,eng] 50-2635
- Molecular dynamics simulation of ice crystal growth. Nada, H., et al. [1996,jpn] 50-4932
- Neoglobodina pachyderma* distribution in the sea ice of Lützow-Holm Bay. Igarashi, A., et al. [1996,eng] 50-6036
- New results from studies of layered ground ice in Yamal. Dubikov, G.I., et al. [1985,rus] 50-242
- Nucleation rates in freezing of molecular clusters. Bartell, L.S., [1995,eng] 50-2346
- Numerical simulation of river ice processes. Shen, H.T., et al. [1995,eng] 50-355
- On the polar stratospheric cloud formation potential of the northern stratosphere. Pawson, S., et al. [1995,eng] 50-2116
- Ottawa firm makes wastewater 'white as snow'. Kneisel, S., [1996,eng] 50-6744
- Oxidation of S(IV) during riming by cloud droplets. Iribarne, J.V., et al. [1995,eng] 50-1103
- Paleogeographic conditions for the formation of ice in homogenous age varved clays. Karpov, E.G., et al. [1996,rus] 50-6377
- Performance of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996,eng] 50-3408
- Pore structure in concrete at low temperatures. Matala, S.P., [1995,eng] 50-2675
- Preconditioning the Greenland Sea for deep convection: ice formation and ice drift. Visbeck, M., et al. [1995,eng] 50-567
- Prediction model for complete ice cover formation in partly open water. Sasaki, N., et al. [1996,eng] 50-4480
- Prediction of frost heave of roads—a simple empirical model. Sætersdal, R., [1981,eng] 50-2139
- Problems in producing artificial ice. Smorygin, G.I., [1990,rus] 50-1619
- Proceedings. International Symposium on Thermal Engineering and Sciences for Cold Regions, 5th, Ottawa, May 19-22, 1996. [1996,eng] 50-6428
- Radar observation of cloud electrification during thunderstorms. Jameson, A.R., et al. [1996,eng] 50-3965
- Reconstruction of the late Palaeozoic ice sheet on southwestern Gondwana. Visser, J.N.J., [1993,eng] 50-6318
- Relative humidity influences on cirrus cloud ice crystal formation. Heymsfield, A.J., et al. [1995,eng] 50-3259
- Release of brine-enriched shelf water from Storöfjord into the Norwegian Sea. Schauer, U., [1995,eng] 50-574
- Research on a thermal conductivity measurement of supercooled water. Saito, A., et al. [1996,eng] 50-6475
- Research on cold region river. Yamashita, S., [1994,jpn] 50-2832
- River ice processes. Prowse, T.D., [1995,eng] 50-785
- Satellite observation of lake ice as a climate indicator. Wynne, R.H., et al. [1993,eng] 50-2862

- Sea ice and sediment export from the Laptev Sea flow lead during 1991/92 winter season. Dethleff, D., [1995,eng] 50-2073
- Sea ice formation in Cook Inlet Alaska: a high energy environment. Nelson, W.G., [1995,eng] 50-2944
- Simulation and analysis of upper Niagara River ice-jam conditions. Wang, D.S., et al. [1995,eng] 50-356
- Simulation and observation of ice formation (freeze-over) in a lake. Fang, X., et al. [1996,eng] 50-5466
- Solidification and melting of water around a vertical heat transfer plate. Hirasawa, Y., et al. [1996,eng] 50-6470
- Solidification of pure liquids and liquid mixtures inside ducts and over external bodies. Fukusako, S., et al. [1994,eng] 50-2348
- Southwest Pacific paleoceanography and development of the East Antarctic Ice Sheet. Flower, B.P., et al. [1995,eng] 50-2609
- Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savilev, B.A., [1963,rus] 50-3832
- Study of H₂O contamination on a cooled optical surface. Guo, Q., et al. [1995,eng] 50-6527
- Technogenic naled formation around the city of Anadyr'. Kotov, A.N., [1996,rus] 50-6854
- Thermodynamic model of lake ice formation and melting. Dmitriev, N.V., [1995,eng] 50-5480
- Tips on avoiding low-level icing. Schuyler, N., [1986,eng] 50-4403
- Two-year simulation of the Great Lakes region with a coupled modeling system. Bates, G.T., et al. [1995,eng] 50-1566
- Unsuitability of meteoritic and other nuclei for polar stratospheric cloud freezing. Biermann, U.M., et al. [1996,eng] 50-6513
- Wave-pancake ice interactions. Shen, H.H., et al. [1994,eng] 50-2221
- Winter 1994 weather and ice conditions for the Laurentian Great Lakes. Assel, R.A., et al. [1996,eng] 50-3294
- Winter-summer differences of carbon dioxide and oxygen in the Weddell Sea surface layer. Hoppema, M., et al. [1995,eng] 50-3006
- See [also]: Freezing; Icing; Sea water freezing; Spray freezing
- Ice formation indicators**
- Search for proxy indicators of young sea ice thickness. Zabel, I.H.H., et al. [1996,eng] 50-4303
- Ice free reaches**
- See [also]: Polynyas
- Ice friction**
- 10 meter scale (macro-crack): scale effects on the fracturing of sea ice. Dempsey, J.P., et al. [1995,eng] 50-6298
- Abrasion mode of a circular cylindrical concrete structure due to sea ice movement. Itoh, Y., et al. [1995,eng] 50-191
- Abrasion of various kinds of stones due to a movement of ice sheet. Hanada, M., et al. [1996,jpn] 50-5884
- Abstracts. International Symposium on Okhotsk Sea and Sea Ice, 11th, Mombetsu, Hokkaido, Japan, Feb. 25-28, 1996. [1996,eng] 50-5872
- Acoustic and seismic studies of ice mechanics. Farmer, D., et al. [1995,eng] 50-6272
- Application of ice cover mechanics in design and operations of marine structures. Riska, K., et al. [1995,eng] 50-6303
- Assessment of the design load of bridge piers constructed in rivers freezing over in winter. Yamauchi, T., et al. [1994,jpn] 50-2835
- Basal friction of Ice Stream E, West Antarctica. MacAyeal, D.R., et al. [1995,eng] 50-4448
- Comment on paper by Reid, Jr., et al. Sharp, R.P., et al. [1996,eng] 50-6540
- Constitutive equations and fracture models for sea ice. Rodin, G.J., et al. [1995,eng] 50-6292
- Deformation and failure of an ice cover at an ice-resistant structure. Danilenko, V.I., et al. [1995,eng] 50-2938
- Distinct element modelling of seabed-ice rubble interaction. Evgin, E., et al. [1993,eng] 50-5597
- Dynamic responses of highway bridge under shock forces of icefloe. Cai, Z.R., et al. [1995,eng] 50-192
- Experimental investigations of the behavior of ice at the contact zone. Timco, G.W., et al. [1995,eng] 50-3807
- Experimental studies on ice forces on conical structures using segmented model. Kato, K., et al. [1996,jpn] 50-5875
- Experimental study of ice load on conical structures. Ohta, M., et al. [1996,jpn] 50-5877
- Experimental study of tearing toughness K_{IIC} for fresh water ice. Li, G.W., et al. [1995,eng] 50-2974
- Experimental study on abrasion of various concretes due to ice movement. Itoh, Y., et al. [1992,eng] 50-2762
- Hind sight on river ice jam stability. Beltaos, S., [1996,eng] 50-6425
- Hydraulic resistance acting on ice floes. Kawai, K., et al. [1996,jpn] 50-5885
- Ice adhesion near the melting point. Kamata, Y., et al. [1996,eng] 50-6487
- Ice and construction. Makkonen, L., ed. [1994,eng] 50-399
- Ice loads on fixed and floating structures: panel report. Croasdale, K.R., et al. [1995,eng] 50-6300
- Ice processes at the 1 km scale. Hopkins, M.A., et al. [1995,eng] 50-6297
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995,eng] 50-195
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995,eng] 50-2942
- Ice-structure interaction research and arctic development. Kennedy, K.P., et al. [1995,eng] 50-6304

Ice growth

- Ice-structure interaction under slippage boundary conditions. Matskevich, D.G., [1995,eng] 50-2936
- Impact ice load acting on flat plate due to wave action. Hanada, M., et al. [1996,jpn] 50-5880
- Local pressure characteristics by indenter with segmented local ice pressure panels. Kamesaki, K., et al. [1996,jpn] 50-5876
- Measurements of crack velocity in sea ice using electromagnetic techniques. Petrenko, V.F., et al. [1995,eng] 50-6291
- Mechanism of the abrasion of concrete structures due to the movement of ice sheets. Ito, Y., et al. [1995,eng] 50-2653
- Mechanisms of ice gouging. Kioka, S., et al. [1995,eng] 50-194
- Model of mesoscale motions of ice caused by convective flows. Gol'dshtein, R.V., et al. [1995,eng] 50-2948
- New flow law of ice-sheet ice. Azuma, N., [1995,jpn] 50-991
- Numerical simulation of arctic pressure ridging. Hopkins, M.A., [1995,eng] 50-6289
- On dynamics of ice-structure interaction. Kajaste-Rudnitski, J., [1995,eng] 50-4169
- On the indentation of a blunt ice wedge. Selvadurai, A.P.S., et al. [1995,eng] 50-180
- Pack ice stresses and their relationship to regional deformation. Richter-Menge, J.A., et al. [1995,eng] 50-6287
- Panel report on 100 km scale (pack ice). Coon, M.D., et al. [1995,eng] 50-6295
- Panel report on the 10 km scale—floe cluster. Overland, J.E., et al. [1995,eng] 50-6296
- Physical processes in ice cover. Smirnov, V.N., et al. [1995,eng] 50-6315
- Physically-based constitutive modeling of ice: damage and failure. Wu, M.S., et al. [1995,eng] 50-6293
- Predicting abrasion of bridge piers by ice. Hara, F., et al. [1995,eng] 50-2655
- Proceedings. Vol.2. International Offshore and Polar Engineering Conference, 5th, Hague, Netherlands, June 11-16, 1995. [1995,eng] 50-175
- Proceedings. Volume IV. Arctic/polar technology. International Conference on Offshore Mechanics and Arctic Engineering (OMAE), 14th, Copenhagen, Denmark, June 18-22, 1995. [1995,eng] 50-2935
- Proceedings. Sea Ice Mechanics and Arctic Modeling Workshop, Anchorage, AK, Apr. 25-28, 1995. [1995,eng] 50-6271
- Sea ice failure mechanisms. Pritchard, R.S., [1995,eng] 50-6274
- Sea Ice Mechanics Initiative (SIMI) summary plan. FY94-95. [1995,eng] 50-6294
- Sea ice mechanics research. Coon, M.D., et al. [1995,eng] 50-6284
- Seismic activity of landfast ice. Nikitin, V.A., et al. [1995,eng] 50-188
- Seismo-acoustic remote sensing of ice-mechanical processes in the Arctic. Schmidt, H., et al. [1995,eng] 50-6276
- Self-excited oscillations in ice floes and icebergs. Smirnov, V.N., et al. [1995,eng] 50-2946
- Shear strength of ice rubble in laboratory tests. Lehmus, E., et al. [1995,eng] 50-181
- Shore ice pile-up and ride-up: field observations, models, theoretical analyses. Kovacs, A., et al. [1979,eng] 50-856
- SIMI (Sea Ice Mechanics Initiative) panel on the 1cm-1m scale. Schulson, E.M., et al. [1995,eng] 50-6299
- Simulation of the ice-structure interaction under the parabolic strength criterion for ice. Matskevich, D.G., [1995,eng] 50-190
- Statistics of ice-structure interaction. Kajaste-Rudnitski, J., [1995,eng] 50-199
- Test methods for abrasion of concrete structures by ice. Hara, F., et al. [1995,eng] 50-2654
- Theory of ice jams. Beltaos, S., [1995,eng] 50-787
- Wheels that provide lateral friction on ice. Alderman, R.L., et al. [1995,eng] 50-3460
- Yield conditions of an assembly of discrete ice floes. Sayed, M., et al. [1995,eng] 50-182
- See [also]: Metal ice friction; Plastics ice friction; Rubber ice friction
- Ice gouging**
- See [also]: Ice scoring
- Ice growth**
- Altimeter retracking algorithm accuracy for Greenland ice sheet growth. Davis, C.H., [1995,eng] 50-980
- Analogue computer for solving growth problems of floating ice. Schwerdtfeger, P., [1964,eng] 50-4608
- Asymptotic stability of the viscous-plastic sea ice rheology. Schulkes, R.M.S.M., [1996,eng] 50-4534
- Build-up, decay and role of the sea-ice cover of the Liefdeford, NW Spitsbergen. King, L., et al. [1994,ger] 50-1596
- Comparison of ice-sheet satellite altimeter retracking algorithms. Davis, C.H., [1996,eng] 50-2703
- Comparisons between the Okhotsk Sea and the Baltic Sea ice. Shirasawa, K., et al. [1996,eng] 50-5904
- Direct measurements of transport and water properties through the Bering Strait. Roach, A.T., et al. [1995,eng] 50-566
- Distribution of seasonal net production of sea ice on the Arctic Ocean. Kakuta, S., et al. [1996,eng] 50-5894
- Effects of solar radiation variations on ice age initiation. Ledley, T.S., et al. [1995,eng] 50-1254
- Electric field effects on growing ice surface force curves. Slaughterbeck, C.R., et al. [1996,eng] 50-5939
- Experimental verification of a pendant ice formation model. Szilder, K., et al. [1995,eng] 50-206

Ice hardness

- Flowthrough rockfill embankments: behavior in subzero temperatures. Hansen, D., et al. [1995,eng] 50-1841
- Formation and morphology of ice stalactites observed under deforming lead ice. Perovich, D.K., et al. [1995,eng] 50-452
- Freshwater spongy spray icing model with surficial structure. Blackmore, R.Z., et al. [1996,eng] 50-5335
- Heat flux through Weddell Sea ice cover. Lytle, V.I., et al. [1996,eng] 50-5263
- Hillslope ice wedges and landform evolution on coastal arctic Canada. Mackay, J.R., [1995,eng] 50-3298
- Hydrologic cycle parameterization for energy balance climate models. Chu, S.P., et al. [1995,eng] 50-587
- Ice-ocean seasonal cycle and climate response in Hudson Bay. Soucier, F.J., et al. [1995,eng] 50-5931
- Ice-sheet growth and high-latitudes sea-surface temperature. Berger, A., et al. [1996,eng] 50-5862
- Ice/snow thickness measuring system. Tank, C.L., et al. [1995,eng] 50-716
- Model of Northern Hemisphere glaciation. Dong, B.W., et al. [1995,eng] 50-1328
- Modeling of ice thickness in manure pits. Carrier, D., et al. [1995,eng] 50-5658
- Modelling interannual sea ice variability in the Gulf of St. Lawrence. DeTracey, B., [1993,eng] 50-375
- Monitoring lead dynamics with ERS-1 synthetic aperture radar imagery. Wackerman, C.C., et al. [1994,eng] 50-1512
- Multisensor observations of winter sea ice in the Greenland Sea. Toudal, L., [1994,eng] 50-1514
- Observations on a plug of old sea ice in the entrance to Nansen Sound, Ellesmere Island. Sadler, H.E., et al. [1981,eng] 50-46
- Overview of recent program on mechanical properties of sea ice. Cole, D.M., et al. [1995,eng] 50-1842
- Physics, mathematics and technology of ice segregation. Arakawa, K., [1981,eng] 50-2138
- Prediction model for complete ice cover formation in partly open water. Sasaki, N., et al. [1996,eng] 50-4480
- Pressure studies on frost heave in soil and glaciers. Radd, F.J., et al. [1966,eng] 50-1409
- Refractive index and density of vapor-deposited ice. Berland, B.S., et al. [1995,eng] 50-3096
- Review of modelling the thermodynamics of floating ice. Savage, S.B., et al. [1996,eng] 50-6488
- River ice processes. Prowse, T.D., [1995,eng] 50-785
- Satellite SAR identification of lake water resources on the North Slope. Jeffries, M.O., et al. [1996,eng] 50-6177
- Sea ice field experiments in the Laptev Sea, 1976. Gorbunov, I.U., et al. [1995,eng] 50-2064
- Sea ice formation in Cook Inlet Alaska: a high energy environment. Nelson, W.G., [1995,eng] 50-2944
- Search for proxy indicators of young sea ice thickness. Zabel, I.H.H., et al. [1996,eng] 50-4303
- Seasonal development of Beaufort Sea pack ice. Melling, H., et al. [1996,eng] 50-5857
- Sedimentation during needle ice growth in soil. Branson, J., et al. [1996,eng] 50-3646
- Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savilev, B.A., [1963,rus] 50-3832
- Temperature dependence of static charging in ice growing by riming. Avila, E.E., et al. [1995,eng] 50-3004
- Vapor deposited water ice: astrophysical implications. Sack, N.J., [1992,eng] 50-697

See [also]: Ice accretion; Icing rate

Ice hardness

- Hardness of single ice crystals. Butkovich, T.R., [1958,eng] 50-5759
- Ice adhesion near the melting point. Kamata, Y., et al. [1996,eng] 50-6487
- Ice heat flux
- Analogue computer for solving growth problems of floating ice. Schwerdtfeger, P., [1964,eng] 50-4608
- Atmosphere-surface interactions over polar oceans and heterogeneous surfaces. Vihma, T., [1995,eng] 50-4035
- Augmentation or suppression of ice accumulation on a cold flat-plate in water-flow channel. Hirata, T., et al. [1996,eng] 50-6462
- Case for cold-base continental ice sheets—a transient thermal model. Heine, J.T., et al. [1996,eng] 50-4890
- Convection induced polynyas during the freezing of antarctic seawater. Hadji, L., [1996,eng] 50-6452
- Cool thermal discharges from ice melting with specified heat fluxes on the boundary. Yeh, H.M., et al. [1996,eng] 50-5521
- Coupled ice-ocean-atmosphere model of the Bering Sea. Hedstrom, K.S., [1995,eng] 50-6310
- Effects of localized deformation on melting processes in ice. Wilson, C.J.L., et al. [1996,eng] 50-5470
- Energy—water—mass balance and hydrological discharge. Kang, E.S., [1994,eng] 50-5576
- Forced-convection melting characteristics of liquid ice in a horizontal rectangular duct. Yamada, M., et al. [1996,eng] 50-6465
- Formation of ice layers in a straight walled, rectangular diffuser. Neumann, S.O., et al. [1996,eng] 50-6469
- Global sea-ice—upper-ocean model: some preliminary results. Fichetef, T., et al. [1993,eng] 50-4821
- Heat and dissolved oxygen transport processes in ice-covered lakes. Ellis, C.R., [1994,eng] 50-373
- Heat flux from leads in pack ice from a Landsat TM image. Lindsay, R.W., [1994,eng] 50-5179

- Heat flux over a melting Greenland ice sheet. Braithwaite, R.J., [1995,eng] 50-1877
- Heat flux through Weddell Sea ice cover. Lytle, V.I., et al. [1996,eng] 50-5263
- Heat transfer during a water jet impinging on the underside of ice. Bhansali, A.P., [1994,eng] 50-678
- Heat transfer during the freezing of water in a cylinder. Yim, C.S., et al. [1996,eng] 50-6466
- Heat transfer in staggered and in-line tube bank designs for ice making. Intemann, P.A., et al. [1996,eng] 50-6447
- Hydraulic run-away: a mechanism for thermally regulated surges of ice sheets. Fowler, A.C., et al. [1995,eng] 50-1876
- Ice-ocean seasonal cycle and climate response in Hudson Bay. Soucier, F.J., et al. [1995,eng] 50-5931
- Large scale motion and temperature distributions in land based ice shields—a review. Hutter, K., et al. [1996,eng] 50-6430
- Melting heat transfer of a horizontal ice cylinder immersed within an immiscible liquid. Yamada, M., et al. [1996,eng] 50-6456
- Metal hydrolysis on a deeply cooled ice surface. Winter, H., et al. [1995,eng] 50-1102
- Model of mesoscale motions of ice caused by convective flows. Goldshtein, R.V., et al. [1995,eng] 50-2948
- Modeling the heating and melting of sea ice through light absorption by microalgae. Zeebe, R.E., et al. [1996,eng] 50-2844
- North Water polynya studies in Baffin Bay, Apr. 1978-Dec. 1979. Müller, F., et al. [1980,eng] 50-3974
- Oscillatory convection during melting of ice in a vertical rectangular enclosure. Ho, C.J., et al. [1996,eng] 50-6454
- Penetrative convection induced by the freezing of seawater. Hadji, L., et al. [1996,eng] 50-6761
- Polythermal model of the antarctic ice sheet. Hansen, I., et al. [1996,eng] 50-6434
- Proceedings. International Symposium on Thermal Engineering and Sciences for Cold Regions, 5th, Ottawa, May 19-22, 1996. [1996,eng] 50-6428
- Radiative transfer in atmosphere-sea ice-ocean system. Jin, Z., et al. [1996,eng] 50-5276
- Remote sensing of sea ice variations in response to atmospheric circulation. Maslanik, J.A., et al. [1995,eng] 50-1815
- Review of modelling the thermodynamics of floating ice. Savage, S.B., et al. [1996,eng] 50-6488
- Solar heating of the arctic mixed layer. Maykut, G.A., et al. [1995,eng] 50-2775
- Solidification and melting of water around a vertical heat transfer plate. Hirasawa, Y., et al. [1996,eng] 50-6470
- Space-time distribution of temperature inversions in the arctic atmospheric boundary layer. Nagurnyi, A.P., [1995,eng] 50-2728
- Three dimensional convective flow around a melting ice cylinder. Oosthuizen, P.H., et al. [1996,eng] 50-6453
- Turbulent transfer over an antarctic ice shelf. Vinje, T.E., [1969,eng] 50-3953
- Ultrasonic measurement of melting ice heat transfer coefficients. Bhansali, A.P., et al. [1996,eng] 50-6760
- Wind effects compared with polynya area estimates derived from SSM/I data. Markus, T., et al. [1993,eng] 50-5596

See [also]: High pressure ice

Ice impurities

See [also]: Impurities

Ice islands

- Exploration of the Arctic Ocean by means of floating scientific stations. Männik, R., [1989,eng] 50-2930
- Mathematical model of spray ice island creep. Thiel, D.T., et al. [1991,eng] 50-1720
- Note on Ice Island WH-5. Nutt, D.C., et al. [1963,eng] 50-5789
- Observations on a plug of old sea ice in the entrance to Nansen Sound, Ellesmere Island. Sadler, H.E., et al. [1981,eng] 50-46
- Radionuclide tracer profiles on Arctic Ocean ice islands. Smith, J.N., et al. [1995,eng] 50-4560
- Seismic reflection results from an ice island over the arctic continental shelf. Cox, T.P., et al. [1990,eng] 50-3763
- Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savilev, B.A., [1963,rus] 50-3832
- Variation of local pressures during ice-structure interaction. Johnston, M., [1994,eng] 50-376
- Ice jams
- 1991 ice jamming along the Saint John River: a case study. Beltaos, S., et al. [1996,eng] 50-5809
- Case study: freeze-up and jamming on the Peace River at Peace River. Andres, D.D., [1995,eng] 50-792
- Device for creating a spring ice jam. Ilarov, N.A., et al. [1992,rus] 50-1903
- Dynamics of river ice jam release. Shen, H.T., et al. [1996,eng] 50-6156
- Field observations and measurements of ice jams. Petryk, S., et al. [1995,eng] 50-791
- Hindsight on river ice jam stability. Beltaos, S., [1996,eng] 50-6425
- Hydrometeorological aspects of flood hazards in Canada. Lawford, R.G., et al. [1995,eng] 50-1853
- Ice jam flooding and mitigation: Lower Platte River basin, Nebraska. White, K.D., et al. [1996,eng] 50-4251
- Ice jam flooding on the Missouri River near Williston, North Dakota. Wuebben, J.L., et al. [1995,eng] 50-2707
- Ice jam processes. Beltaos, S., [1995,eng] 50-786

- Ice jamming in upper Niagara River: processes and plan of study. Crissman, R.D., et al. [1995,eng] 50-362
- Impulse radar studies of interface roughness. Jezek, K.C., et al. [1992,eng] 50-60
- Introduction to river ice jam floods. Gerard, R.L., et al. [1995,eng] 50-784
- Manual of ice protection. Sipos, B., ed. [1973,hun] 50-443
- Mitigation of ice jams. Burrell, B.C., [1995,eng] 50-790
- Model ice properties. Zufelt, J.E., et al. [1996,eng] 50-5673
- New ice jam database. White, K.D., [1996,eng] 50-4410
- New, low-cost ice control structure. Part 1: concept development. Lever, J.H., et al. [1996,eng] 50-6158
- New, low-cost ice control structure. Part 2: construction and performance. Lever, J.H., et al. [1996,eng] 50-6159
- Numerical modelling of ice jam resistance to main channel flow. Saade, R.G., et al. [1995,eng] 50-6206
- Numerical modelling of ice jams. Petryk, S., [1995,eng] 50-788
- Open-water and ice-jam flooding of a northern delta. Prowse, T.D., et al. [1994,eng] 50-5699
- Overview of environmental and hydrogeologic conditions at Bethel, Alaska. Dorava, J.M., et al. [1995,eng] 50-2484
- Overview of environmental and hydrogeologic conditions at Fort Yukon, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2482
- Phreatic water surface profiles along ice jams—an experimental study. Saade, R.G., et al. [1996,eng] 50-6693
- Physical modeling of ice jams. Wuebben, J.L., [1995,eng] 50-789
- Probability distributions for peak stage on rivers affected by ice jams. Tuthill, A.M., et al. [1996,eng] 50-4754
- River ice control and fish habitat restoration: mutual interests and benefits. Lever, J.H., et al. [1995,eng] 50-3121
- River ice jams. Beltaos, S., ed. [1995,eng] 50-783
- River ice motion detector. Zufelt, J.E., et al. [1995,eng] 50-889
- Simulation and analysis of upper Niagara River ice-jam conditions. Wang, D.S., et al. [1995,eng] 50-356
- Structural ice control: review of existing methods. Tuthill, A.M., [1995,eng] 50-393
- Theory of ice jams. Beltaos, S., [1995,eng] 50-787
- Three-dimensional simulation of river ice jams. Hopkins, M.A., et al. [1996,eng] 50-6155
- Under cover transport and accumulation of frazil granules—discussion. Quo, Q.Z., et al. [1996,eng] 50-6337
- Ice lenses
- Brief review of physical and mathematical models of frost heave. Holden, J.T., [1981,eng] 50-2137
- Experimental studies of frost heave in soils subjected to external stress. Lavrov, S.A., et al. [1996,rus] 50-6814
- Finite element analysis of the creep of debris containing thin ice bodies. Azizi, F., et al. [1995,eng] 50-183
- Frost heave due to ice lens formation in freezing soils. 1. Theory and verification. Sheng, D., et al. [1995,eng] 50-742
- Frost heave due to ice lens formation in freezing soils. 2. Field application. Sheng, D., et al. [1995,eng] 50-743
- Fundamentals of ice lens formation. Takagi, S., [1975,eng] 50-3390
- Mapping the territory of the Bovanenka gas condensate field. Streletskaia, I.D., et al. [1996,rus] 50-6369
- Moisture movement and freezing pressures. Hoekstra, P., [1968,eng] 50-1976
- Physics, mathematics and technology of ice segregation. Arakawa, K., [1981,eng] 50-2138
- Prediction of frost heave of roads—a simple empirical model. Sætersdal, R., [1981,eng] 50-2139
- Pressure studies on frost heave in soil and glaciers. Radd, F.J., et al. [1966,eng] 50-1409
- Role of climate in periglacial solifluction. Harris, C., [1993,eng] 50-845
- Seasonal frost mounds of arctic beaches, Tuktoyaktuk Peninsula, Northwest Territories. Campeau, S., et al. [1995,eng] 50-4882
- Winter effects on hydraulic conductivity of compacted clay—discussion. Day, R.W., et al. [1996,eng] 50-5207
- Ice loads
- 10 meter scale (macro-crack): scale effects on the fracturing of sea ice. Dempsey, J.P., et al. [1995,eng] 50-6298
- 1995 perspective on global design ice loads. Kennedy, K.P., [1995,eng] 50-2937
- Abrasion mode of a circular cylindrical concrete structure due to sea ice movement. Itoh, Y., et al. [1995,eng] 50-191
- Abrasion of various kinds of stones due to a movement of ice sheet. Hanada, M., et al. [1996,jpn] 50-5884
- Abstracts. International Symposium on Okhotsk Sea and Sea Ice, 11th, Mombetsu, Hokkaido, Japan, Feb. 25-28, 1996. [1996,eng] 50-5872
- Accretion of monodisperse droplets on a thin wire. Prodi, F., et al. [1996,eng] 50-5393
- Analyses of conductor ice accretion and meteorological characteristics. Luo, N., et al. [1996,eng] 50-5376
- Anemometer for transmission line maintenance in heavy icing areas. Ozawa, A., et al. [1996,eng] 50-5395
- Annual variation of the temperature field in a concrete dam. Daoud, M., et al. [1996,eng] 50-6439
- Application of ice cover mechanics in design and operations of marine structures. Riska, K., et al. [1995,eng] 50-6303
- Arctic and Offshore Research Information System. Shoemaker, H.D., et al. [1991,eng] 50-1753
- Arctic not so costly and design ice loads falling [1990,eng] 50-5886

Ice loads

Ice loads

- Arctic tanker structural requirement evaluation. Final report. McCallum, J.S., et al. [1995.eng] 50-4124
- Artificial ice tests for long insulator strings. Wu, D., et al. [1996.eng] 50-5341
- Assessment of the design load of bridge piers constructed in rivers freezing over in winter. Yamauchi, T., et al. [1994.jp] 50-2835
- Atmospheric icing on transmission line towers in Iran. Arabani, M.P., et al. [1996.eng] 50-5364
- Breakthrough loads of floating ice sheets: small-scale tests with urea model ice. Sodhi, D.S., [1995.eng] 50-2939
- Cable galloping model for thin ice accretions. McComber, P., et al. [1996.eng] 50-5381
- Cable twisting due to atmospheric icing. McComber, P., et al. [1995.eng] 50-205
- Calculating vertical ice loads on vertical structures at variable water levels. Nishihata, A., et al. [1996.jp] 50-5879
- Calibration of anemometers for use in icing conditions. Makkonen, L., et al. [1996.eng] 50-5348
- Choosing the route of overhead lines in the Czech Republic. Zálešák, Z., et al. [1996.eng] 50-5398
- Climate of freezing rain over the province of Québec in Canada: a preliminary analysis. Laflamme, J.N., et al. [1996.eng] 50-5333
- Combined wind and ice loads from historical extreme wind and ice data. Krishnasamy, S., et al. [1996.eng] 50-5350
- Combined wind and ice loads on telecommunication towers in Quebec. Phase I. Elifashny, K., et al. [1996.eng] 50-5353
- Comparison of glaze and in-cloud icing events on a test line. Druetz, J., et al. [1995.eng] 50-2951
- Compressive failure of columnar saline ice under multiaxial loading. Schulson, E.M., [1995.eng] 50-6282
- Concrete TLP to sit out Barents bergs. Cottrill, A., [1990.eng] 50-3866
- Constitutive equations and fracture models for sea ice. Rodin, G.J., et al. [1995.eng] 50-6292
- Construction of the Okhotsk frozen-sea observation tower. Sato, Y., et al. [1996.jp] 50-5873
- Contact force and damage evolution in a moving uniaxial ice bar. Shin, J.G., et al. [1990.eng] 50-99
- Countermeasures to prevent sea ice from intruding into Saroma Lagoon. Ishikawa, S., et al. [1996.jp] 50-5890
- Crack nucleation in columnar ice—recent developments. Gupta, V., et al. [1995.eng] 50-2958
- Crack nucleation mechanisms in columnar ice—recent developments. Gupta, V., et al. [1995.eng] 50-6281
- Creep of saline ice at low stresses and high temperatures. Richter-Menge, J.A., et al. [1995.eng] 50-179
- DC characteristics of local arc on ice surfaces. Farzaneh, M., et al. [1996.eng] 50-5344
- Definition of the loading regime on offshore structures from drifting ice covers. Bekker, A.T., et al. [1996.eng] 50-4463
- Deformation and failure of an ice cover at an ice-resistant structure. Danilenko, V.I., et al. [1995.eng] 50-2938
- Determination of the ice strength for calculation of the ice load. Bekker, A.T., et al. [1996.eng] 50-4462
- Distinct element modelling of seabed-ice rubble interaction. Evgin, E., et al. [1993.eng] 50-5597
- Drifting ice forces on offshore piles. Afanas'ev, V.P., et al. [1990.eng] 50-98
- Ductile deformation of columnar saline ice under triaxial compressive loading. Melton, J.S., et al. [1995.eng] 50-2957
- Dynamic response of ice shedding on electrical transmission lines. Fekr, M.R., et al. [1996.eng] 50-5338
- Dynamic responses of highway bridge under shock forces of icefloes. Cai, Z.R., et al. [1995.eng] 50-192
- Earthquake response offshore structures surrounded by ice floes (Part 1). Okamoto, N., et al. [1996.jp] 50-5882
- Effect of ice and atmospheric pressure on insulator flashover. Shu, L.C., et al. [1996.eng] 50-5388
- Effect of icing on the dynamic behaviour of guyed antenna towers. Wahba, Y.M.F., et al. [1996.eng] 50-5378
- Effect of size on distributed damage and fracture of sea ice. Bazant, Z.P., et al. [1995.eng] 50-6278
- Effects of prestressing on floating ice sheets. Quimby, T.B., et al. [1995.eng] 50-2943
- Effects of wind, snow and ice on fiber optic overhead lines. Wareing, J.B., [1996.eng] 50-5349
- Elastic response of the earth to interannual variations in antarctic precipitation. Conrad, C.P., et al. [1995.eng] 50-3089
- Electrical wire. Belash, I.P., et al. [1992.rus] 50-1907
- Environmental loading studies for the CSA Offshore Structures Code. Allyn, N., et al. [1995.eng] 50-1411
- Evaluating the effects of icing on wind turbines. Walsh, M., [1992.eng] 50-3636
- Evaluation of double-sided beam and girder constructions tension subject to local ice loads. Barabanov, N.V., et al. [1996.eng] 50-4465
- Experience and analysis of galloping phenomenon in overhead transmission lines in Iran. Javaherianesh, M., [1996.eng] 50-5404
- Experimental investigations of the behavior of ice at the contact zone. Timco, G.W., et al. [1995.eng] 50-3807
- Experimental studies on ice forces on conical structures using segmented model. Kato, K., et al. [1996.jp] 50-5875
- Experimental study of ice load on conical structures. Ohta, M., et al. [1996.jp] 50-5877
- Experimental study of tearing toughness K_{IIC} for fresh water ice. Li, G.W., et al. [1995.eng] 50-2974
- Experimental study on abrasion of various concretes due to ice movement. Itoh, Y., et al. [1992.eng] 50-2762
- Extreme warm frontal icing on 25 February 1994 causes an aircraft accident near Uttoxeter. Pike, W.S., [1995.eng] 50-2796
- Factors influencing flashover characteristics along ice surfaces. Chen, X., et al. [1996.eng] 50-5343
- Failures of overhead lines due to ice and wet snow in Serbia. Vučković, Z., et al. [1996.eng] 50-5365
- Fatigue reliability calculation for structure members of offshore fixed platform. Fang, H.C., et al. [1995.eng] 50-218
- February 1994 ice storm in the southeastern U.S. Lott, J.N., et al. [1996.eng] 50-5372
- Field and laboratory experiments and modeling of the constitutive behavior of sea ice. Cole, D.M., [1995.eng] 50-6280
- Field measurements of ice loads: thermal loads on hydro-electric structures. Comfort, G., et al. [1994.eng] 50-853
- Fifteen years field trials of galloping controls for overhead power lines. Havard, D.G., [1996.eng] 50-5382
- Flaking tests to measure large scale strength of ice. Jones, S.J., et al. [1996.eng] 50-4430
- Flashover between power lines caused by ice shedding. Savadjev, K., et al. [1996.eng] 50-5386
- Galloping events and associated meteorological condition experienced in Hokuriku area. Kasima, H., et al. [1996.eng] 50-5380
- Galloping of iced electrical transmission lines. Popplewell, N., et al. [1996.eng] 50-5377
- Galloping on overhead transmission test lines with artificial snow. Ozawa, A., et al. [1996.eng] 50-5379
- Glacial isostasy and lateral mantle viscosity. Sabadini, R., et al. [1989.eng] 50-4710
- Gulf Canada probabilistic ice load model: operation and parametric sensitivity study. Watson, D.A., et al. [1995.eng] 50-1413
- High frequency acoustic response of sea ice to single load cycles: a preliminary analysis. Langhorne, P.J., et al. [1995.eng] 50-2940
- Hydraulic resistance acting on ice floes. Kawai, K., et al. [1996.jp] 50-5885
- Ice accretion and persistence measuring instrument. Franklin, C.H., et al. [1991.eng] 50-4364
- Ice accretion in freezing rain. Jones, K.F., [1996.eng] 50-2245
- Ice accretion weight on overhead transmission line cables. Savadjev, K., et al. [1996.eng] 50-5351
- Ice accumulation on fixed and floating ocean structures. Minsk, L.D., [1975.eng] 50-5755
- Ice and construction. Makkonen, L., ed. [1994.eng] 50-399
- Ice and snow damage to high voltage overhead lines in Romania. Goia, L.M., et al. [1996.eng] 50-5366
- Ice formation on the guywires of Hydro-Québec telecommunications towers. Gastonguay, L., et al. [1996.eng] 50-5402
- Ice loads on fixed and floating structures: panel report. Croasdale, K.R., et al. [1995.eng] 50-6300
- Ice management in Lac St. Pierre. Carter, D., et al. [1995.eng] 50-4043
- Ice problems in planning and operation of hydro power plants. Sharma, H.R., [1993.eng] 50-235
- Ice processes at the 1 km scale. Hopkins, M.A., et al. [1995.eng] 50-6297
- Ice protection for water intakes of the Perry Nuclear Power Plant. Wahmanik, R.J., et al. [1976.eng] 50-884
- Ice risk levels—a practical approach to design. Støttrup-Andersen, U., [1996.eng] 50-5354
- Ice shedding effects on an overhead transmission line. Jamaledine, A., et al. [1996.eng] 50-5337
- Ice shedding from cables. Druetz, J., et al. [1995.eng] 50-1144
- Ice storm data base and ice severity map. Shan, L., et al. [1996.eng] 50-5330
- Ice storm management on an electrical utility system. Hall, J.W., [1996.eng] 50-5367
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995.eng] 50-195
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995.eng] 50-2942
- Ice-structure interaction research and arctic development. Kennedy, K.P., et al. [1995.eng] 50-6304
- Ice-structure interaction under slippage boundary conditions. Matskevich, D.G., [1995.eng] 50-2936
- Icing of wind turbine rotor blades during operation. Seifert, H., [1992.eng] 50-3631
- Icing rate measurements: a key way of estimating ice loads on structures. Laflamme, J.N., [1996.eng] 50-5359
- Icing rate meter estimation of transmission line icing. McComber, P., et al. [1996.eng] 50-4031
- Icing rate meter, an instrument to evaluate transmission line icing. McComber, P., et al. [1996.eng] 50-5357
- Icing test and rework of WECS for use on Lapland's fjells. Böhmke, G., et al. [1992.eng] 50-3635
- Icing-prone grounded transmission wires in Slovenia. Jakše, J., et al. [1996.eng] 50-5405
- IEC TC11 WG11—report on meteorological data for assessing climatic loads. Ervik, M., et al. [1996.eng] 50-5347
- Impact ice load acting on flat plate due to wave action. Hanada, M., et al. [1996.jp] 50-5880
- Impact of subglacial groundwater flow on moraine formation. Boulton, G.S., et al. [1996.eng] 50-2129
- Improved numerical model for wind turbine icing. Finstad, K.J., et al. [1996.eng] 50-5391
- Influence of a finite glaciation phase on predictions of post-glacial isostatic adjustment. Mitrovica, J.X., et al. [1995.eng] 50-2723
- Influence of cavitation on icebreaker propellers. Walker, D., et al. [1995.eng] 50-200
- Instability trends of inertially coupled galloping. part 1: initiation. Yu, P., et al. [1995.eng] 50-1053
- Insulators in icing conditions: selection and measures for reliability increasing. Sklenicka, V., et al. [1996.eng] 50-5342
- Investigation of ice-resistant coatings used to protect ice-breaker hull. Babtsev, V.A., et al. [1995.eng] 50-201
- Investigation of sea ice shear properties. Zanegin, V.G., et al. [1990.eng] 50-101
- Investigation of the stress development during cryogenic pipe freezing. Keary, A.C., et al. [1996.eng] 50-6438
- Joint probability of environmental loads on marine structures. Liu, D.F., et al. [1995.eng] 50-196
- Laboratory tests for ice interaction with steel booms. Timco, G.W., et al. [1996.eng] 50-5812
- Leakage resistance of iced insulators and chemical data of ice and snow. Sugawara, N., et al. [1996.eng] 50-5384
- Local pressure characteristics by indenter with segmented local ice pressure panels. Kamesaki, K., et al. [1996.jp] 50-5876
- Measurement of ice accretion and persistence at unmanned sites. Final report. Hill, G.E., [1990.eng] 50-4365
- Measurements of crack velocity in sea ice using electromagnetic techniques. Petrenko, V.F., et al. [1995.eng] 50-6291
- Measurements of ice and snow loads on the Tyee Lake 138 kV line. Peabody, A.B., [1996.eng] 50-5346
- Mechanical behavior of ice loaded optical ground wires. Savadjev, K., et al. [1995.eng] 50-2953
- Mechanism of the abrasion of concrete structures due to the movement of ice sheets. Ito, Y., et al. [1995.eng] 50-2653
- Mechanisms of ice gouging. Kioka, S., et al. [1995.eng] 50-194
- Methods to estimate ice accumulations on surface structures. Schaub, W.R., Jr., [1996.eng] 50-5360
- Model for spraying and three-dimensional icing on a stern trawler. Chung, K.K., et al. [1995.eng] 50-2955
- Model of mesoscale motions of ice caused by convective flows. Goldshtein, R.V., et al. [1995.eng] 50-2948
- Modeling of ice thickness in manure pits. Carrier, D., et al. [1995.fre] 50-5658
- Modeling power line icing in freezing precipitation. Makkonen, L., [1996.eng] 50-5362
- Models of ice-structure contact for engineering applications. Riska, K., [1995.eng] 50-3808
- National climatic reference base for exceptional wet snow and rime ice episodes. Raison, T., et al. [1996.eng] 50-5331
- New transducer for measurement of ice loads for utilities. Seppä, T.O., [1996.eng] 50-5397
- New, low-cost, ice- and wave-resistant port facility at Nome, Alaska. Swigart, W.S., et al. [1991.eng] 50-1732
- Non-contact loads on propellers in ice-blocked flows. Luzznik, L., et al. [1995.eng] 50-2941
- Northumberland Strait bridge: analysis techniques and results. Ghali, A., et al. [1996.eng] 50-3046
- NRC centre for ice loads on Beaufort Sea structures. Timco, G.W., [1996.eng] 50-3238
- Numerical simulation of aircraft icing on wings and nacelles. Brahimi, M.T., et al. [1996.eng] 50-5392
- Numerical simulation of arctic pressure ridging. Hopkins, M.A., [1995.eng] 50-6289
- Numerical study of iced conductors aerodynamics. Ilina, A., et al. [1996.eng] 50-5336
- Offshore structure and installation method. Waddell, J.W., [1995.eng] 50-3479
- On dynamics of ice-structure interaction. Kajaste-Rudnitski, J., [1995.eng] 50-4169
- On the indentation of a blunt ice wedge. Selvadurai, A.P.S., et al. [1995.eng] 50-180
- Optimal design of bow plating for ships operating in ice. Brown, P.W., [1993.eng] 50-378
- Overview of recent progress on mechanical properties of sea ice. Cole, D.M., et al. [1995.eng] 50-1842
- Pack ice stresses and their relationship to regional deformation. Richter-Menge, J.A., et al. [1995.eng] 50-6287
- Panel report on 100 km scale (pack ice). Coon, M.D., et al. [1995.eng] 50-6295
- Panel report on the 10 km scale—floe cluster. Overland, J.E., et al. [1995.eng] 50-6296
- Perturbation-based finite element analyses of transmission line galloping. Desai, Y.M., et al. [1996.eng] 50-4291
- Physical processes in ice cover. Smirnov, V.N., et al. [1995.eng] 50-6315
- Physically based constitutive modeling of ice. Connor, J.J., et al. [1995.eng] 50-6288
- Physically-based constitutive modeling of ice: damage and failure. Wu, M.S., et al. [1995.eng] 50-6293
- Pleistocene glaciation and the Earth's precession constant. Mitrovica, J.X., et al. [1995.eng] 50-517
- Polish design standards for transmission line icing. Dembicki, E., et al. [1996.eng] 50-5396
- Post glacial emergence and the Tapes transgression, north-central Kola Peninsula, Russia. Snyder, J.A., et al. [1996.eng] 50-5829
- Post-yield strength of icebreaking ship structural members. Desrochers, C.G., et al. [1995.eng] 50-877
- Predicting abrasion of bridge piers by ice. Hara, F., et al. [1995.eng] 50-2655
- Problem of choice of the design parameters for ice thickness. Polomoshnov, A.M., et al. [1996.eng] 50-5901

Ice makers

Ice mechanics

- Procedure for estimating ice load on overhead wires based on short term observations. Sakamoto, Y., et al. [1996,eng] 50-5363
- Proceedings of the First European Offshore Mechanics Symposium, 1990. European Offshore Mechanics Symposium, First, Trondheim, Norway, Aug. 20-22, 1990, [1990,eng] 50-93
- Proceedings. IWAIS '96. International Workshop on Atmospheric Icing of Structures, 7th, Chicoutimi, Quebec, June 3-7, 1996, [1996,eng] 50-5329
- Proceedings. Vol.2. International Offshore and Polar Engineering Conference, 5th, Hague, Netherlands, June 11-16, 1995, [1995,eng] 50-175
- Proceedings. Volume IV. Arctic/polar technology. International Conference on Offshore Mechanics and Arctic Engineering (OMAE), 14th, Copenhagen, Denmark, June 18-22, 1995, [1995,eng] 50-2935
- Proceedings. International Experts' Meeting on Wind Power in Icing Conditions, Helsinki, Finland, 1992. Boreas-North Wind-Pohjatuuli, [1992,eng] 50-3626
- Proceedings. Sea Ice Mechanics and Arctic Modeling Workshop, Anchorage, AK, Apr. 25-28, 1995, [1995,eng] 50-6271
- Production of high-strength concrete for the Hibernia offshore concrete platform. Hoff, G.C., et al. [1994,eng] 50-2764
- Quaternary sea level history in the Northwest Territories, Canada. Kerr, D.E., [1996,eng] 50-6553
- Recent advances in ice interaction and force estimation processes for vertical structures. Arunachalam, A.V.M., [1995,eng] 50-197
- Relation between gouging force and the shape of ice floe. Terai, Y., et al. [1996,jpn] 50-5887
- Relation between sea ice loads and arctic offshore structures. Blanchet, D., et al. [1991,eng] 50-1721
- Research overview of ground de/anti-icing products. Bernardin, S., et al. [1996,eng] 50-5401
- Rime accretion on the fells. Tammelin, B., et al. [1992,eng] 50-3639
- Romanian experience in meteorological zoning for designing of overhead lines (OLs). Goia, L.M., [1996,eng] 50-5332
- Rotatable shortwave curtain antenna operable at very high wind speeds. Bruger, P., et al. [1996,eng] 50-6621
- Scale effects on the fracture and constitutive behavior of sea ice. Dempsey, J.P., et al. [1995,eng] 50-6279
- Sea ice failure mechanisms. Pritchard, R.S., [1995,eng] 50-6274
- Sea Ice Mechanics Initiative (SIMI) summary plan, FY94-95, [1995,eng] 50-6294
- Sea ice mechanics related to thermally-induced stresses and fracturing in pack ice. Lewis, J.K., et al. [1995,eng] 50-6290
- Sea ice mechanics research. Coon, M.D., et al. [1995,eng] 50-6284
- Self-excited oscillations in ice floes and icebergs. Smirnov, V.N., et al. [1995,eng] 50-2946
- Shore ice pile-up and ride-up: field observations, models, theoretical analyses. Kovacs, A., et al. [1979,eng] 50-856
- SIMI (Sea Ice Mechanics Initiative) panel on the 1cm-1m scale. Schulson, E.M., et al. [1995,eng] 50-6299
- Simple model for freezing rain ice loads. Jones, K.F., [1996,eng] 50-5399
- Simulation of sea ice behaviour—a parametric study. Evgin, E., et al. [1995,eng] 50-2952
- Simulation of ship-ice collision dynamics. Phillips, L.D., [1994,eng] 50-5670
- Simulation of the ice-structure interaction under the parabolic strength criterion for ice. Matskevich, D.G., [1995,eng] 50-190
- Statistics of ice-structure interaction. Kajaste-Rudniski, J., [1995,eng] 50-199
- Structural failure of the *Titanic*. Garzke, W.H., Jr., et al. [1994,eng] 50-5177
- Structure and flexural strength of sea ice and consolidation of pressure ridges. Shapiro, L.H., et al. [1995,eng] 50-6283
- Structure of internal stresses in the uncompacted ice cover. Sukhorukov, K.K., [1995,eng] 50-193
- Structure-independent measurement of icing. Makkonen, L., [1992,eng] 50-3629
- Study and analysis of the factors having influence on ice coating of electric wires. Wang, S.L., [1996,eng] 50-5394
- Study of minimum flashover voltage of iced-covered suspension insulators. Shu, L.C., et al. [1996,eng] 50-5345
- Telemetry of climatic loads on Hydro-Québec 735 kV lines. Hardy, C., et al. [1996,eng] 50-5358
- Ten million year histories of obliquity and precession: the influence of the ice-age cycle. Jiang, X.H., et al. [1996,eng] 50-5044
- Test methods for abrasion of concrete structures by ice. Hara, F., et al. [1995,eng] 50-2654
- Thickness and fracture toughness of freshwater ice. Chang, C., et al. [1995,eng] 50-2975
- Three-dimensional simulation of river ice jams. Hopkins, M.A., et al. [1996,eng] 50-6155
- Transmission line ice measurements with tension monitoring systems. Seppa, T.O., [1996,eng] 50-5356
- Transmission line icing mechanism and study of new de-icing techniques. Jiang, X.L., et al. [1996,eng] 50-5368
- Uniaxial compressive strength of sea ice in Okhotsk Sea. Masaki, T., et al. [1996,jpn] 50-5888
- Validation of ice accretion models for freezing precipitation using field data. Haldar, A., et al. [1996,eng] 50-5361
- Variation of local pressures during ice-structure interaction. Johnston, M., [1994,eng] 50-376
- Velocity dependence of ice failure load in a 2-dimensional ship model. Adachi, M., et al. [1996,eng] 50-5878
- West Dock Causeway bridge piers. Christopherson, A.B., et al. [1996,eng] 50-6133
- Wet snow icing combined with strong wind—field inspections and field measurements. Eliasson, A.J., et al. [1996,eng] 50-5352
- Wind energy research in NEMO—research program. Peltola, E., [1992,eng] 50-3627
- Wind measurements at Ylläs broadcasting station 1982-1991. Lehtonen, P., [1992,eng] 50-3632
- Ice makers**
- Heat transfer in staggered and in-line tube bank designs for ice making. Intemann, P.A., et al. [1996,eng] 50-6447
- Ice thermal storage-type air conditioning systems as seen in the patents. Igarashi, S., et al. [1995,jpn] 50-1176
- Snow behaviour under compaction for the production of ice. Gaméda, S., et al. [1996,eng] 50-4047
- Ice mechanics**
- Acoustics probe sea-ice mechanics. Rajan, S.D., [1996,eng] 50-6675
- Algorithm modeling stress gradients in grounded glaciers. Blatter, H., [1995,eng] 50-454
- Analytical modeling of glacier dynamics. Bahr, D.B., [1996,eng] 50-5023
- Asymptotic stability of the viscous-plastic sea ice rheology. Schulkes, R.M.S.M., [1996,eng] 50-4534
- Attempt to draw a scenario of ice/propeller interaction. Tamura, K., et al. [1996,eng] 50-4475
- Basal friction of Ice Stream E, West Antarctica. MacAyeal, D.R., et al. [1995,eng] 50-448
- Borehole penetration and expansion devices for ice testing. Ladanyi, B., [1996,eng] 50-5048
- Compressive creep of polycrystalline ice containing a liquid phase. de la Chapelle, S., et al. [1995,eng] 50-595
- Computational modelling of brittle ice fragmentation. Tuhkuri, J., [1996,eng] 50-5942
- Controls on glacier surging in Svalbard. Hamilton, G.S., et al. [1996,eng] 50-4900
- Correction to paper by Schulson and Nickolayev. Schulson, E.M., et al. [1996,eng] 50-4361
- Crack nucleation in saline ice with interacting inhomogeneities. Wu, M.S., et al. [1995,eng] 50-1142
- Deformation of ice under low stresses. Sego, D.C., et al. [1982,eng] 50-3787
- Development of optimum hull forms for icebreaking cargo ships for the Northern Sea Route. Kishi, S., et al. [1996,eng] 50-4473
- Development of the original ice borehole jack. Masterson, D.M., et al. [1996,eng] 50-5051
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1995,eng] 50-4247
- Drifting ice forces on offshore piles. Afanas'ev, V.P., et al. [1990,eng] 50-98
- Ductile-to-brittle transition of compressed ice. Schulson, E.M., et al. [1995,eng] 50-2157
- Dynamic impact between a viscoelastic ice floe and a rigid structure. Morland, L.W., [1996,eng] 50-3824
- Effects of floating ice cracks on propagation of flexural waves. Bukatov, A.E., et al. [1996,eng] 50-3410
- Effects of individual ridging events on the ice thickness distribution in the arctic ice pack. Hopkins, M.A., [1996,eng] 50-3828
- Effects of localized deformation on melting processes in ice. Wilson, C.J.L., et al. [1996,eng] 50-5470
- Ejection velocity of ice impact fragments. Arakawa, M., et al. [1995,eng] 50-2153
- Elasto-delayed-elastic simulation of short-term deflection of fresh-water ice covers. Sinha, N.K., et al. [1996,eng] 50-5474
- Electromechanical phenomena in ice. Petrenko, V.E., [1996,eng] 50-4546
- Failure of columnar saline ice under biaxial compression. Schulson, E.M., et al. [1995,eng] 50-2119
- Fifteen years of arctic acoustics and ice camps. Von der Heydt, K., et al. [1996,eng] 50-6667
- Flow properties of crushed ice. Singh, S.K., et al. [1995,eng] 50-2999
- Fracture in the compression of a brittle material—columnar grained ice. Wu, H.C., et al. [1974,eng] 50-3788
- Fracture toughness of freshwater ice—part I: experimental technique and results. Weber, L.J., et al. [1996,eng] 50-5158
- Fracture toughness of freshwater ice—part II: analysis and micrography. Weber, L.J., et al. [1996,eng] 50-5159
- Fracture toughness of ice and firm determined from the modified ring test. Fischer, M.P., et al. [1995,eng] 50-458
- Gulf Canada probabilistic ice load model: operation and parametric sensitivity study. Watson, D.A., et al. [1995,eng] 50-1413
- Hydraulic run-away: a mechanism for thermally regulated surges of ice sheets. Fowler, A.C., et al. [1995,eng] 50-1876
- Ice fracture and spalling in ice-structure interaction. Zou, B., et al. [1996,eng] 50-5473
- Ice jamming in upper Niagara River: processes and plan of study. Crisman, R.D., et al. [1995,eng] 50-362
- Ice microcracking due to grain boundary sliding. Elvin, A.A., et al. [1996,eng] 50-4185
- Ice resistance of three bow forms for the NSR cargo ship. Izumiya, K., et al. [1996,eng] 50-4471
- Ice shedding from cables. Druetz, J., et al. [1995,eng] 50-1144
- Ice shelf breakup. Fahnestock, M., [1996,eng] 50-3490
- Ice streams in Antarctica: transverse instability of gravity driven flow. Minale, M., et al. [1996,eng] 50-3722
- Ice tank tests on pressure ridge formation. Lensu, M., et al. [1995,eng] 50-4582
- Ice-pavement bond disbonding—fundamental study. Blackburn, R.R., et al. [1993,eng] 50-876
- Ice/metal interfaces: fracture energy and fractography. Wei, Y., et al. [1996,eng] 50-5243
- Indentation pressure in ice/vertical structure interaction. Takeuchi, T., et al. [1995,eng] 50-2738
- Interpretation of field measurements for ice engineering applications. Gold, L.W., [1996,eng] 50-5050
- Interpretation of in situ borehole ice strength measurement tests. Masterson, D.M., [1996,eng] 50-5049
- Investigation of the dynamic loading of ice. Chizhov, V.E., [1996,eng] 50-5269
- Large Arctic temperature change in the Holocene. Cuffey, K.M., et al. [1995,eng] 50-629
- Large-scale loading and collapse of natural sea ice and natural-artificial ice laminates. Lichtenberger, G.J., [1991,eng] 50-1718
- Light flash and ionization from hypervelocity impacts on ice. Burchell, M.J., et al. [1996,eng] 50-6530
- Long-term trend in sea ice thickness variation in the Arctic basin. Nagurnyi, A.P., [1995,eng] 50-5479
- Mechanics of ice strength and breakup when erecting ice structures in the Arctic. Krasnov, I.U.N., [1989,rus] 50-2254
- Mechanics of marine screw propeller ice cutting processes. Veitch, B., [1995,eng] 50-4154
- Method to calculate pack ice driving forces. Evgin, E., et al. [1995,eng] 50-1283
- Microcracking during stress-relief of polycrystalline ice formed at high pressure. Meglis, I.L., et al. [1995,eng] 50-774
- Model of ductile behavior of columnar grained sea ice. Zhan, C., et al. [1996,eng] 50-5184
- Model of shoreward movement of grounded lake ice. Sasaki, T., et al. [1995,eng] 50-3329
- Modelling of continuous crushing of ice in front of offshore structures. Brown, T.G., et al. [1995,eng] 50-575
- Nonlinear acoustic effects due to cracks in ice cover. Ekimov, A.E., et al. [1996,eng] 50-5291
- Numerical modelling of ice jam resistance to main channel flow. Saade, R.G., et al. [1995,eng] 50-6206
- Numerical reconstruction of a soft-bedded Laurentide Ice Sheet during the last glacial maximum. Clark, P.U., et al. [1996,eng] 50-6539
- Observations of pressure effects on the creep of ice single crystals. Cole, D.M., [1996,eng] 50-4901
- On the generation of internal waves beneath sea ice by a moving load. Duffy, D.G., [1996,eng] 50-3825
- On the modelling of ice cover fracture. Slepian, L.I., [1990,eng] 50-94
- Orientation dependence of elastic constants for ice. Parameswaran, V.R., [1987,eng] 50-4223
- Overview of recent program on mechanical properties of sea ice. Cole, D.M., et al. [1995,eng] 50-1842
- Particle model for quasibrittle fracture and application to sea ice. Jirasek, M., et al. [1995,eng] 50-495
- Planar forcing of floating ice sheets. Zhao, Z.G., et al. [1996,eng] 50-1108
- Preliminary results from fatigue tests on in situ sea ice beams. Haskell, T.G., et al. [1996,eng] 50-5469
- Proceedings of the First European Offshore Mechanics Symposium, 1990. European Offshore Mechanics Symposium, First, Trondheim, Norway, Aug. 20-22, 1990, [1990,eng] 50-93
- Proceedings. International Symposium on Glacial Erosion and Sedimentation, Reykjavik, Iceland, Aug. 20-25, 1995, [1996,eng] 50-6232
- Proceedings. Workshop on Future Directions in Snow and Ice Research, Gallatin Gateway, MT, Oct. 3-4, 1995, [1995,eng] 50-4623
- Relevance of ice thickness measurements to Alaskan glacier variations. Nolan, M., et al. [1995,eng] 50-1875
- Results of the studies of natural deformations of sea ice fields. Smirnov, V.N., et al. [1990,eng] 50-96
- Rheology of water ices V and VI. Durham, W.B., et al. [1996,eng] 50-3450
- Ridging and strength in modeling the thickness distribution of arctic sea ice. Flato, G.M., et al. [1995,eng] 50-570
- Sea ice data report. Kovacs, A., et al. [1970,eng] 50-3854
- Sea ice rheology and sea ice modelling. Tremblay, B., [1993,eng] 50-5185
- Shear margins in glaciers and ice sheets. Raymond, C., [1996,eng] 50-4894
- Simulation of ship transit for Baltic ice conditions. La Prairie, D., et al. [1995,eng] 50-4583
- Singularities in simulation of ice sheet-solid impact regime. Darr, D.G., et al. [1995,eng] 50-2163
- Strength and viscosity of ice. Zaretski, I.U.K., et al. [1996,rus] 50-6825
- Stress interaction between multiple crevasses in glacier ice. Sas-solas, C., et al. [1996,eng] 50-5464
- Stresses in sea ice in the neighboring force interaction zone. Nikitin, V.A., et al. [1995,eng] 50-5522
- Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savilev, B.A., [1963,rus] 50-3832
- Study of dynamic effects on icebreaking in 2-dimension: computations and components of icebreaking load. Yamaguchi, H., et al. [1996,eng] 50-4469

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- Study of dynamic effects on icebreaking in 2-dimension: experiment. Usami, A., et al. [1996,eng] 50-4468
- Theory of ice jams. Beliaos, S., [1995,eng] 50-787
- Theory of lattice Boltzmann simulations of glacier flow. Bahr, D.B., et al. [1995,eng] 50-1883
- Thermomechanical response of the Greenland ice sheet to various climate scenarios. Calov, R., et al. [1996,eng] 50-4522
- Triaxial experiments on iceberg and glacier ice. Gagnon, R.E., et al. [1995,eng] 50-1874
- Triaxial tests on crushed ice. Singh, S.K., et al. [1996,eng] 50-5468
- Uniaxial constant compressive stress creep tests on sea ice. Sinha, N.K., et al. [1995,eng] 50-3000
- Unified viscoplastic model for the inelastic behavior of ice. Lee, J.H., et al. [1996,eng] 50-6176
- Variation in ice strength at its interaction with ice and structures. Krasnov, I.U.N., [1990,eng] 50-97
- Wing crack models of the brittle compressive failure of ice. Nixon, W.A., [1996,eng] 50-3826
- Ice melting**
- 1990 arctic sea ice reduction related to snow cover minima. Serreze, M.C., et al. [1995,eng] 50-773
- Antarctic ice sheet melting in the southeast Pacific. Jacobs, S.S., et al. [1996,eng] 50-5458
- Arctic ice cap shrinking. Lange, G., [1993,eng] 50-1443
- Asian glacier ice flow and mass continuity. Cherkasov, P.A., et al. [1996,eng] 50-6057
- Atmospheric ice ablation processes on Mt. Equinox, Vermont. U.S.A. Ryerson, C.C., et al. [1996,eng] 50-5375
- Basic processes determining the rheological behavior of plastic-frozen ground under stress. Ukhov, S.B., et al. [1996,eng] 50-6827
- Bubblers for ice melting. [1996,eng] 50-4182
- Calcium chloride production process. Davidson, C.M., et al. [1993,eng] 50-2235
- Case for cold-base continental ice sheets—a transient thermal model. Heine, J.T., et al. [1996,eng] 50-4890
- Chlorophyll distribution in a body of fresh water covered with ice. Zavonuev, V.V., et al. [1996,eng] 50-5816
- Classical and quantum mechanical studies of ice Ih near the melting temperature. Gai, H.D., et al. [1996,eng] 50-3099
- Climate change in the recent evolution of a pro-glacial lake. Webster, J., et al. [1996,eng] 50-3704
- Comment on "Surface layers on ice" by C.A. Knight. Baker, M.B., et al. [1996,eng] 50-6059
- Comparison of glaze and in-cloud icing events on a test line. Druetz, J., et al. [1995,eng] 50-2951
- Cool thermal discharges from ice melting with specified heat fluxes on the boundary. Yeh, H.M., et al. [1996,eng] 50-5521
- Danger of lake burst flooding from a Himalayan glacial lake. Watanabe, T., et al. [1995,eng] 50-3338
- Degradation of ice-moraine ridges in natural conditions. Szponar, A., [1993,eng] 50-2212
- Dispersion-force effects in interfacial premelting of ice. Wilen, L.A., et al. [1995,eng] 50-2134
- Disposition of solar radiation in sea ice and the upper ocean. Ebert, E.E., et al. [1995,eng] 50-572
- Distribution of seasonal net production of sea ice on the Arctic Ocean. Kakuta, S., et al. [1996,eng] 50-5894
- Dusting river ice with leaf mulch to aid in ice deterioration. Haehnel, R.B., et al. [1996,eng] 50-6072
- Effects of localized deformation on melting processes in ice. Wilson, C.J.L., et al. [1996,eng] 50-5470
- Electric fields and charges near 0°C in stratiform clouds. Shepherd, T.R., et al. [1996,eng] 50-5821
- Evaluation procedures for deicing chemicals and improved sodium chloride. Chappelow, C.C., et al. [1993,eng] 50-875
- Evidence for a fluidized till deposit on the Ross Sea continental shelf. Jahns, E., [1994,eng] 50-2695
- Evidence for Heinrich layers off Portugal (Tore Seamount: 39°N, 12°W). Lebreiro, S.M., et al. [1996,eng] 50-5220
- Evidence of Holocene sea level rise from Nova Scotian bottom sediments. Scott, D.B., et al. [1995,eng] 50-4528
- Experimental study on the melting transition at interface between ice crystal and substrate. Furukawa, Y., et al. [1994,eng] 50-3072
- Explicit cloud physics parameterization for operational numerical weather prediction. Schultz, P., [1995,eng] 50-1529
- Fluctuations during melting. Grimsditch, M., et al. [1996,eng] 50-6345
- Forced-convection melting characteristics of liquid ice in a horizontal rectangular duct. Yamada, M., et al. [1996,eng] 50-6465
- Formation and evolution of the surface mixed layer and halocline of the Arctic Ocean. Rudels, B., et al. [1996,eng] 50-5261
- Formation mechanism of the marginal zone of the Warta ice sheet. Terpiwowski, S., [1993,eng] 50-3666
- Freshwater impact on Hudson Bay ecosystems under sea ice. pt. I. Ingram, R.G., et al. [1996,eng] 50-4019
- Glaciers: a water resource. Meier, M.F., et al. [1995,eng] 50-3801
- Groundwater flow beneath ice sheets: part I—large scale patterns. Boulton, G.S., et al. [1995,eng] 50-2128
- Heat budget of a midlatitude squall line and implications for potential vorticity production. Braun, S.A., et al. [1996,eng] 50-5475
- Heat transfer during a water jet impinging on the underside of ice. Bhansali, A.P., [1994,eng] 50-678

Ice models

- Heated mat structure for melting ice and snow. Dyer, C.W., [1995,eng] 50-3477
- High-latitude climate change with an atmospheric coupled sea ice model. Washington, W.M., et al. [1996,eng] 50-6055
- Hydrologic cycle parameterization for energy balance climate models. Chu, S.P., et al. [1995,eng] 50-587
- Ice complex and greenhouse gases. Kunitskii, V.V., [1996,eng] 50-6380
- Ice dam melting system. Tourangeau, D.R., et al. [1995,eng] 50-3481
- Ice shedding from cables. Druetz, J., et al. [1995,eng] 50-1144
- Ice storm management on an electrical utility system. Hall, J.W., [1996,eng] 50-5367
- Ice/snow thickness measuring system. Tank, C.L., et al. [1995,eng] 50-716
- Identification of ice-rafted sediments in Atlantic Ocean bottom cores. Auffret, G.A., et al. [1996,eng] 50-5218
- Impact crater lakes on Mars. Newsom, H.E., et al. [1996,eng] 50-5777
- Inorganic nutrients in the marginal ice zone of the Belling-shausen Sea in spring. Whitehouse, M.J., et al. [1995,eng] 50-1023
- Investigation of the dynamic loading of ice. Chizhov, V.E., [1996,eng] 50-5269
- Land application turns wastewater into ice cubes. Madison, M., et al. [1994,eng] 50-2122
- Laurentide ice sheet oscillations as cause of Atlantic Ocean Heinrich events. MacAyeal, D.R., [1993,eng] 50-2869
- Liquid ice melting along a bundle of heated cylinders. Yamada, M., et al. [1996,eng] 50-4965
- Long-term observations for monitoring of the cryosphere. Walsh, J.E., [1995,eng] 50-3350
- Melting driven thermohaline convection. Bédard, C., et al. [1996,eng] 50-3611
- Melting heat transfer of a horizontal ice cylinder immersed within an immiscible liquid. Yamada, M., et al. [1996,eng] 50-6456
- Melting rates of brash ice in Arthur Harbor. Smith, N.D., et al. [1994,eng] 50-2222
- Meltwater event in the North Atlantic during last glacial maximum. Seidov, D., et al. [1996,eng] 50-6217
- Modeling of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996,eng] 50-6715
- Modeling the heating and melting of sea ice through light absorption by microalgae. Zeebe, R.E., et al. [1996,eng] 50-2844
- Molecular dynamics study of surface melting on ice crystal. Nada, H., et al. [1994,eng] 50-3073
- Monitoring Termination II at high latitude: anomalies in the planktic foraminiferal record. Bauch, H.A., [1995,eng] 50-5223
- Movement of the ice shelf at Maudheim. Swinbank, C., [1958,eng] 50-6525
- Natural convection for the melting of ice in porous media in a rectangular enclosure. Chang, W.J., et al. [1996,eng] 50-4533
- New deicing tactics: prewet with salt brine. [1996,eng] 50-3454
- Occurrence of an algal bloom under arctic pack ice. Gradinger, R., [1996,eng] 50-4159
- Oscillatory convection during melting of ice in a vertical rectangular enclosure. Ho, C.J., et al. [1996,eng] 50-6454
- Postglacial rebound from VLBI geodesy: on establishing vertical reference. Argus, D.F., [1996,eng] 50-5459
- Preliminary study of melting snow and river ice by dusting using leaf mulch. Haehnel, R.B., et al. [1995,eng] 50-3120
- Premelting of ice in porous silica glass. Ishizaki, T., et al. [1996,eng] 50-6759
- Pressure melting and ice skating. Colbeck, S.C., [1995,eng] 50-408
- Probability of sea level rise. Titus, J.G., et al. [1995,eng] 50-5783
- Quaternary Fourier stratigraphy: orbital templates and Milankovitch anomalies. Berger, W.H., [1994,eng] 50-1066
- Radio wave scattering from melting snow particles. Zhang, W., et al. [1996,eng] 50-6622
- River-coastal sea ice interaction model: Mackenzie River Delta. Searcy, C., et al. [1996,eng] 50-5265
- Sensitivity of squall-line rear inflow to ice microphysics and environmental humidity. Yang, M.J., et al. [1995,eng] 50-1527
- Significance of the analysis of dominant boulders and the orientation of long axes of pebbles in moraines. Raukas, A.V., [1972,eng] 50-544
- Snow and ice removal apparatus. Stanger, T.P., [1995,eng] 50-3480
- Solidification and melting of water around a vertical heat transfer plate. Hirasawa, Y., et al. [1996,eng] 50-6470
- Solution and stability of natural convective snow in a melt puddle. Bogorodskii, P.V., [1995,eng] 50-2067
- Spring-bloom time-series at the Bering Sea ice edge pt. I. Niebauer, H.J., et al. [1995,eng] 50-1031
- Study of brash ice in the proximal marine zone of a sub-polar tidewater glacier. Smith, N.D., et al. [1996,eng] 50-6224
- Surface layers on ice. Knight, C.A., [1996,eng] 50-6058
- Thermal stratification effects near a vertical ice slab in cold water. Kukulka, D.J., et al. [1993,eng] 50-3361
- Thermodynamic model of lake ice formation and melting. Dmitriev, N.V., [1995,eng] 50-5480
- Three-dimensional convective flow around a melting ice cylinder. Oosthuizen, P.H., et al. [1996,eng] 50-6453
- Transmission line icing mechanism and study of new de-icing techniques. Jiang, X.L., et al. [1996,eng] 50-5368
- Two-year simulation of the Great Lakes region with a coupled modeling system. Bates, G.T., et al. [1995,eng] 50-1566
- Ultrasonic measurement of melting ice heat transfer coefficients. Bhansali, A.P., et al. [1996,eng] 50-6760
- Variations in Atlantic Ocean surface paleoceanography. Sarnthein, M., et al. [1995,eng] 50-3003
- Vertical particle flux on the shelf off northern Spitsbergen, Norway. Andreassen, I., et al. [1996,eng] 50-6566
- Ice metal friction**
- See [also]: Metal ice friction
- Ice microstructure**
- Acoustic emissions during ice phase transformations. Sakharov, I.I., [1995,eng] 50-157
- Crack nucleation in saline ice with interacting inhomogeneities. Wu, M.S., et al. [1995,eng] 50-1142
- Crack velocities in freshwater and saline ice. Petrenko, V.F., et al. [1996,eng] 50-5299
- Distribution of water in hailstones. Chylek, P., et al. [1984,eng] 50-4495
- Effects of localized deformation on melting processes in ice. Wilson, C.J.L., et al. [1996,eng] 50-5470
- Electron-beam-induced amorphization of ice III or IX obtained by high-pressure freezing. Sartori, N., et al. [1996,eng] 50-6531
- Failure of columnar saline ice under biaxial compression. Schulson, E.M., et al. [1995,eng] 50-2119
- Formation mechanism of side branches of dendritic ice crystals grown from vapor. Gonda, T., et al. [1996,eng] 50-5193
- Fracture toughness of freshwater ice—part II: analysis and micrograph. Weber, L.J., et al. [1996,eng] 50-5159
- Grain multiplication mechanism for sea ice transition zone formation. Wei, Y.C., et al. [1995,eng] 50-1143
- Ice microcracking due to grain boundary sliding. Elvin, A.A., et al. [1996,eng] 50-4185
- Ice textures in an ice core from the Guliya Ice Cap. Huang, M.H., et al. [1995,eng] 50-4514
- Microcracking during stress-relief of polycrystalline ice formed at high pressure. Meglis, I.L., et al. [1995,eng] 50-774
- Microstructure and mechanical properties of some small impact ice accretions. Hammond, D.W., [1996,eng] 50-5339
- Model of ductile behavior of columnar grained sea ice. Zhan, C., et al. [1996,eng] 50-5184
- New flow law of ice-sheet ice. Azuma, N., [1995,eng] 50-991
- Nucleation of microcracks in ice cubes compressed equally on all boundaries. Weiss, J., et al. [1996,eng] 50-5867
- Observation of slip transmission through a grain boundary in ice. Jia, K., et al. [1996,eng] 50-5297
- Particle model for quasibrittle fracture and application to sea ice. Jirasek, M., et al. [1995,eng] 50-4905
- Physically-based constitutive modeling of ice: damage and failure. Wu, M.S., et al. [1995,eng] 50-6293
- Proton-ordered ice structures at zero pressure. A quantum-mechanical investigation. Pisani, C., et al. [1996,eng] 50-5935
- Scanning microscopy of an autofluorescent biological substance. Evans, J., et al. [1996,eng] 50-4532
- Thickness of summer Arctic Ocean multiyear ice. Eicken, H., et al. [1995,eng] 50-2112
- Three-dimensional modelling of ice accretion micro structure. Szilder, K., et al. [1996,eng] 50-5340
- Wing crack models of the brittle compressive failure of ice. Nixon, W.A., [1996,eng] 50-3826
- X-ray analysis of ion distribution in frozen salt droplets. Orlovich, D.A., et al. [1995,eng] 50-6590
- X-ray topographic study of ice crystal dislocations. Liu, F.P., et al. [1992,eng] 50-5958
- Ice models**
- Asymptotic stability of the viscous-plastic sea ice rheology. Schulkes, R.M.S.M., [1996,eng] 50-4534
- Calculation of free energy for molecular crystals by thermodynamic integration. Báez, L.A., et al. [1995,eng] 50-1951
- Centrifuge modeling and numerical simulation of ice scour. Yang, Q.S., et al. [1996,eng] 50-5936
- Comparison of monthly sea ice simulation models. Wu, X.R., et al. [1996,eng] 50-5451
- Contact force and damage evolution in a moving uniaxial ice bar. Shin, J.G., et al. [1990,eng] 50-99
- Crack nucleation in saline ice with interacting inhomogeneities. Wu, M.S., et al. [1995,eng] 50-1142
- Definition of the loading regime on offshore structures from drifting ice covers. Bekker, A.T., et al. [1996,eng] 50-4463
- Development of a Baltic Sea ice climate model. Leppäranta, M., et al. [1994,eng] 50-3202
- Development of an ice information system (IIS) to be implemented at the NERSC. Jacob, A., [1995,eng] 50-2742
- Disposition of solar radiation in sea ice and the upper ocean. Ebert, E.E., et al. [1995,eng] 50-572
- Distributed mass/discrete floe model for predicting pack ice motion. Matsuzawa, T., et al. [1996,eng] 50-5886
- Drift tests of model floes in a circulation water channel. Rheem, C.K., et al. [1996,eng] 50-4432
- Drifting ice forces on offshore piles. Afanas'ev, V.P., et al. [1990,eng] 50-98
- Effect of sea ice distribution on atmospheric circulation models. Grötzer, A., et al. [1996,eng] 50-5864
- Elasto-delayed-elastic simulation of short-term deflection of fresh-water ice covers. Sinha, N.K., et al. [1996,eng] 50-5474

Ice mounds

- Evaluation of surface radiative flux parameterizations for use in sea ice models. Key, J.R., et al. [1996,eng] 50-3451
- Field and laboratory experiments and modeling of the constitutive behavior of sea ice. Cole, D.M., [1995,eng] 50-6280
- Freshwater impact on Hudson Bay ecosystems under sea ice, pt. I. Ingram, R.G., et al. [1996,eng] 50-4019
- Glacial rebound of the British Isles—III: constraints on mantle viscosity. Lambeck, K., et al. [1996,eng] 50-4737
- Global sea-ice—upper-ocean model: some preliminary results. Fichefet, T., et al. [1993,eng] 50-4821
- Ice accretion in freezing rain. Jones, K.F., [1996,eng] 50-2245
- Ice jam flooding and mitigation: Lower Platte River basin, Nebraska. White, K.D., et al. [1996,eng] 50-4251
- Ice jamming in upper Niagara River: processes and plan of study. Crissman, R.D., et al. [1995,eng] 50-362
- Ice model test basin opens in Helsinki. [1989,eng] 50-5649
- Ice sheet model test via glacial geological research in West Greenland. Van Tatenhove, F.G.M., et al. [1995,eng] 50-2013
- Ice tank tests on pressure ridge formation. Lensu, M., et al. [1995,eng] 50-4582
- Inorganic nutrients in the marginal ice zone of the Bellinghousen Sea in spring. Whitehouse, M.J., et al. [1995,eng] 50-1023
- Interaction between arctic and antarctic sea ice. Xie, S.M., et al. [1995,eng] 50-3417
- JAMSTEC coupled model of arctic sea-ice and ocean. Kakuta, S., et al. [1996,eng] 50-4478
- Laurentide ice sheet oscillations as cause of Atlantic Ocean Heinrich events. MacAyeal, D.R., [1993,eng] 50-2869
- Limits on the areal extent of the Barents Sea ice sheet in Late Weichselian time. Lambeck, K., [1996,eng] 50-5307
- Low-order model of the Heinrich event cycle. MacAyeal, D.R., [1993,eng] 50-2868
- Model ice properties. Zufelt, J.E., et al. [1996,eng] 50-5673
- Model of ductile behavior of columnar grained sea ice. Zhan, C., et al. [1996,eng] 50-5184
- Model of mesoscale motions of ice caused by convective flows. Goldshtein, R.V., et al. [1995,eng] 50-2948
- Modelling interannual sea ice variability in the Gulf of St. Lawrence. DeTracey, B., [1993,eng] 50-375
- Multiaxial creep of saline ice. Golubov, A.I., et al. [1990,eng] 50-102
- Numerical model simulation of a summer reversal of the Beaufort gyre. Preller, R.H., et al. [1989,eng] 50-4706
- Numerical simulation of arctic pressure ridging. Hopkins, M.A., [1995,eng] 50-6289
- Numerical simulation of Shirase Glacier. Pattyn, F., et al. [1995,eng] 50-2578
- On the modelling of ice cover fracture. Stepan, L.I., [1990,eng] 50-94
- Orientation dependence of elastic constants for ice. Parameswaran, V.R., [1987,eng] 50-4223
- Parameterization of surface albedo for sea ice and its snow cover. Barry, R.G., [1996,eng] 50-5014
- Particle model for quasibrittle fracture and application to sea ice. Jirasek, M., et al. [1995,eng] 50-495
- Physical modeling of ice jams. Wuebben, J.L., [1995,eng] 50-789
- Physically based constitutive modeling of ice. Connor, J.J., et al. [1995,eng] 50-6288
- Pipe rigidity as a failure index under explosive loads. Abd El Halim, A.O., et al. [1996,eng] 50-5047
- Pleistocene glaciation and the Earth's precession constant. Mitrovica, J.X., et al. [1995,eng] 50-517
- Precipitation and river runoff in an ice-ocean model of the Arctic. Weatherly, J.W., [1994,eng] 50-675
- Prediction model for complete ice cover formation in partly open water. Sasaki, N., et al. [1996,eng] 50-4480
- Proceedings of the First European Offshore Mechanics Symposium, 1990. European Offshore Mechanics Symposium, First, Trondheim, Norway, Aug. 20-22, 1990, [1990,eng] 50-93
- Proceedings. Workshop on Future Directions in Snow and Ice Research, Gallatin Gateway, MT, Oct. 3-4, 1995, [1995,eng] 50-4623
- Progress in ice-stream basal modeling. Alley, R.B., [1994,eng] 50-1890
- Proton-ordered ice structures at zero pressure. A quantum-mechanical investigation. Pisani, C., et al. [1996,eng] 50-5935
- Remote sensing of sea ice variations in response to atmospheric circulation. Maslanik, J.A., et al. [1995,eng] 50-1815
- Ridging and strength in modeling the thickness distribution of arctic sea ice. Flato, G.M., et al. [1995,eng] 50-570
- Sea ice extent and surface mass accumulation in Amundsen, Bellinghousen and Weddell seas. Giovinetto, M.B., et al. [1993,eng] 50-3553
- Sea ice rheology and sea ice modelling. Tremblay, B., [1993,eng] 50-5185
- Search for proxy indicators of young sea ice thickness. Zabel, I.H.H., et al. [1996,eng] 50-4303
- Simulation of ice flow movement around an ocean structure. Rheem, C.K., et al. [1996,eng] 50-4433
- Simulation of ice flow movement around an ocean structure. Rheem, C.K., et al. [1996,eng] 50-4433
- Simulation of sea ice behaviour—a parametric study. Evgin, E., et al. [1995,eng] 50-2952
- Simulation of ship-ice collision dynamics. Phillips, L.D., [1994,eng] 50-5670

- Simulation of the seasonal arctic sea-ice cover with a dynamic thermodynamic sea-ice model. Holland, D.M., et al. [1993,eng] 50-5186
- Singularities in simulation of ice sheet-solid impact regime. Darr, D.G., et al. [1995,eng] 50-2163
- Structure of ice Ih from analysis of single-crystal neutron diffuse scattering. Nield, V.M., et al. [1995,eng] 50-2696
- Study of dynamic effects on icebreaking in 2-dimension: experiment. Usami, A., et al. [1996,eng] 50-4468
- Surface layers on ice. Knight, C.A., [1996,eng] 50-6058
- Theory of inelastic x-ray scattering by phonons in ice. Johansson, P., [1996,eng] 50-6329
- Thermomechanical response of the Greenland ice sheet to various climate scenarios. Calov, R., et al. [1996,eng] 50-4522
- Unified viscoplastic model for the inelastic behavior of ice. Lee, J.H., et al. [1996,eng] 50-6176
- Use of ERS-1 SAR data in numerical sea ice modeling. Lepoint, M., et al. [1992,eng] 50-222
- Ice mounds**
See [also]: Frost mounds
- Ice movement poles**
See [also]: Markers
- Ice navigation**
Almost forgotten expedition. Maksimova, O., [1995,rus] 50-3803
- Arctic and Russia. Granberg, A.G., [1996,eng] 50-4422
- Arctic tanker structural requirement evaluation. Final report. McCallum, J.S., et al. [1995,eng] 50-4124
- Arctic: historical outline. Ohta, Y., [1996,eng] 50-4424
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Demonstration of operational sea-ice monitoring in the Baltic Sea with ERS-1 SAR. Herland, E.A., et al. [1995,eng] 50-1820
- Development of optimum hull forms for icebreaking cargo ships for the Northern Sea Route. Kishi, S., et al. [1996,eng] 50-4473
- Device for pushing broken ice ahead of a ship or the like. Donderi, D.C., [1990,eng] 50-2241
- Environmental factors: conceptual design and current status. Hansson, R., et al. [1996,eng] 50-4436
- Experiences of three years of oil transportation in the Russian Arctic with a Western fleet. Niimi, M., [1996,eng] 50-4486
- Experimental voyage through Northern Sea Route. Yamaguchi, H., [1996,eng] 50-4425
- Experimental voyage through Northern Sea Route. Yamaguchi, H., et al. [1996,jpn] 50-5874
- Flaking tests to measure large scale strength of ice. Jones, S.J., et al. [1996,eng] 50-4430
- Formation of the air temperature field in the eastern Arctic and its effect on navigation. Dmitriev, A.A., [1990,rus] 50-334
- Hydrodynamic performance of ship hull forms designed for the NSR cargo ship. Uto, S., et al. [1996,eng] 50-4474
- Ice conditions along the North-East Passage in view of ship trafficability studies. Riska, K., [1995,eng] 50-198
- Ice conditions and navigability of the NSR-vessels: present and future. Schwarz, J., [1996,eng] 50-4491
- Ice management in Lac St. Pierre. Carter, D., et al. [1995,eng] 50-4043
- Ice zipper. Tetrault, M., [1987,eng] 50-2240
- Iceberg active and passive sonar acoustics and navigation safety along the Northern Sea Route. Gavrilov, V.P., et al. [1996,eng] 50-4483
- Iceberg-structure interaction probabilities for design. Fuglem, M., et al. [1996,eng] 50-5052
- Icebreaker "Ermak". Basevich, V., et al. [1994,rus] 50-3237
- Icebreaker transit analysis for a voyage across the Arctic Ocean. Brigham, L.W., [1996,eng] 50-4460
- Icebreakers. Kashtelian, V.I., et al. [1972,rus] 50-387
- Icebreaking polar vessel *Teshio* 550 G/T type. Kawashima, Y., et al. [1996,jpn] 50-5902
- IceNav shipboard radar integration. Marton, C., [1995,eng] 50-4042
- ICESTAR: a spaceborne ice and coastal environment surveillance system. Cavalieri, D.J., et al. [1996,eng] 50-4482
- Identification of ice classes and rules for ships intended to navigate in the Arctic. Karavanov, S.B., et al. [1996,eng] 50-4464
- Influence of cavitation on icebreaker propellers. Walker, D., et al. [1995,eng] 50-200
- Influence of ice conditions on NSR transit sailing. Vefsnmo, S., et al. [1996,eng] 50-4459
- INSROP GIS—the concept and its role in INSROP. Løvås, S.M., et al. [1996,eng] 50-4426
- Integral indicator of atmosphere and ocean state in the eastern Arctic. Dmitriev, A.A., et al. [1990,rus] 50-335
- Intrasaccular changes in ice conditions and conditions for ice navigation in the 20th century. Zakharov, V., et al. [1996,eng] 50-4481
- Introduction to INSROP. Østrem, W., [1996,eng] 50-4420
- Investigation of ice-resistant coatings used to protect ice-breaker hull. Babtsev, V.A., et al. [1995,eng] 50-201
- Manual of ice protection. Sipos, B., ed. [1973,hun] 50-443
- Mechanical ice cutter on the Mississippi River. Ashton, G.D., [1973,eng] 50-3954
- Meteorological support for navigation along the Northern Sea Route. Kondrat'ev, K.I.A., et al. [1994,eng] 50-648
- Non-contact loads on propellers in ice-blocked flows. Luznik, L., et al. [1995,eng] 50-2941
- Northern Sea Route reconnaissance study: a summary of ice-breaking technology. Sodhi, D.S., [1995,eng] 50-395

- Northern Sea Route: its development and evolving state of operations in the 1990s. Mulherin, N.D., [1996,eng] 50-4960
- Northern Sea Route: future & perspective. Northern Sea Route: future & perspective. Proceedings of INSROP Symposium, Tokyo, Oct. 1-6, 1995, [1996,eng] 50-4419
- Optimal design of bow plating for ships operating in ice. Brown, P.W., [1993,eng] 50-378
- Planned NSF/UNOLS arctic research vessel for the United States arctic science community. Kristensen, D.H., et al. [1995,eng] 50-6312
- Potential resistance of the Kara Sea ice cover. Gavrilov, V.P., et al. [1995,eng] 50-185
- Preliminary application of Canadian ice regime system to the Northern Sea Route. Jones, S.J., et al. [1996,eng] 50-4429
- Project I: natural conditions and ice navigation. Buzuev, A., [1996,eng] 50-4435
- Project I: natural conditions and ice navigation. Løvås, S.M., [1996,eng] 50-4434
- Project III.11.1: New concepts in removing ice. Jerusalemkii, A.V., [1996,eng] 50-4447
- Project III.12.1: improve information on navigating the NSR. Baskin, A.T., [1996,eng] 50-4448
- Project IV.1.1: historical and current use of the Northern Sea Route. Ivanov, I.U.M., et al. [1996,eng] 50-4456
- Project IV.1.2: "NSR-pilot" guide to navigation along the NSR. Mikhailichenko, V., et al. [1996,eng] 50-4457
- Remote sensing ice detection capabilities—East Coast. Rossier, J.R., et al. [1995,eng] 50-1412
- Report on underwater noise. Davis, R.A., et al. [1991,eng] 50-3420
- Research concerning ice conditions in fairways—Swedish activities. Lindmark, R., et al. [1984,eng] 50-3165
- Research Vessel *Polar Duke*. [1987,eng] 50-3885
- Revolution in arctic navigation. Ternovoi, E., [1995,rus] 50-3236
- Russian module of the INSROP information system. Grishchenko, V.D., et al. [1996,eng] 50-4427
- Salient features of the design of large arctic ships with a restricted draft. Tsai, L.G., [1996,eng] 50-4431
- Sea ice forecasting for ship routing and operations. Pritchard, R.S., et al. [1995,eng] 50-6301
- Seaborne oil and gas transportation from Northern Russia. Backlund, A., [1996,eng] 50-4487
- Series of model tests in ice of ice-going cargo ships for future traffic in the Northern Sea Route. Ishikawa, S., et al. [1996,eng] 50-4472
- Shipping on the Northern Sea Route. Barabanov, N.V., [1996,eng] 50-4485
- Simulation of ship transit for Baltic ice conditions. La Prairie, D., et al. [1995,eng] 50-4583
- Simulation of ship-ice collision dynamics. Phillips, L.D., [1994,eng] 50-5670
- Specialized ice information for planning sea operations along the NSR. Brovin, A.I., et al. [1996,eng] 50-4428
- Standardization of corrosion wear of shell plating for ice ships operations. Kulesh, V.A., et al. [1996,eng] 50-4466
- Study of dynamic effects on icebreaking in 2-dimension: computations and components of icebreaking load. Yamaguchi, H., et al. [1996,eng] 50-4469
- Study of dynamic effects on icebreaking in 2-dimension: experiment. Usami, A., et al. [1996,eng] 50-4468
- Testing of ships in ice. Ryvlin, A.I.A., et al. [1980,rus] 50-388
- Velocity dependence of ice failure load in a 2-dimensional ship model. Adachi, M., et al. [1996,eng] 50-5878
- Ice needles**
Characteristics of the aggregation of needle snow crystals. Kajikawa, M., [1995,jpn] 50-3509
- Morphological studies on the polycrystalline snow germs. Kikuchi, K., et al. [1992,eng] 50-6644
- Rates of heave and surface rotation of periglacial frost boils in the White Mountains, California. Wilkerson, F.D., [1995,eng] 50-3785
- Sedimentation during needle ice growth in soil. Branson, J., et al. [1996,eng] 50-3646
- Thermodynamic analysis of the influence of electric fields on frost formation. Ma, H.B., et al. [1995,eng] 50-2156
- Ice nuclei**
Aerosol-stratus cloud parameterization for middle and high latitudes. Olsson, P.Q., et al. [1996,eng] 50-5280
- Antifreeze proteins in winter rye are similar to pathogenesis-related proteins. Hon, W.C., et al. [1995,eng] 50-2853
- Applications of bacterial ice nucleation activity in food processing. Watanabe, M., et al. [1995,eng] 50-3287
- Applications of biological ice nucleators in spray-ice technology. LaDuca, R.J., et al. [1995,eng] 50-3289
- Biochemistry of bacterial ice nuclei. Fall, R., et al. [1995,eng] 50-3274
- Biological control of insect pests using ice-nucleating microorganisms. Lee, R.E., Jr., et al. [1995,eng] 50-3284
- Biological ice nucleation and its applications. Lee, R.E., Jr., et al. [1995,eng] 50-3270
- Characterization of a novel ice-nucleating bacterium. Kawahara, H., et al. [1995,eng] 50-1960
- Comments on "Production of ice particles in clouds due to aircraft penetrations". Mossop, S.C., et al. [1984,eng] 50-4917
- Control of epiphytic ice nucleation-active bacteria for management of plant frost injury. Lindow, S.E., [1995,eng] 50-3283
- Deep supercooling in buds of woody plants. Quamme, H.A., [1995,eng] 50-3280

Ice openings

- Deep supercooling in woody plants and the role of cell wall structure. Wisniewski, M., [1995,eng] 50-3279
- Discovery of bacterial ice nucleation and its role in the injury of plants by frost. Upper, C.D., et al, [1995,eng] 50-3272
- Ecology of ice nucleation-active bacteria. Hirano, S.S., et al, [1995,eng] 50-3273
- Estimating ice-active bacterial population on mango leaves. Cazorla, F.M., et al, [1995,eng] 50-1652
- Evaluation of the Bridger Range winter cloud seeding experiment using control gages. Super, A.B., et al, [1983,eng] 50-4637
- Freezing tolerance in plants: an overview. Chen, T.H.H., et al, [1995,eng] 50-3277
- HIPLEX-1: experimental design and response variables. Smith, P.L., et al, [1984,eng] 50-4918
- Ice active bacteria gene dynamics. Drains, C., et al, [1995,eng] 50-2347
- Ice forming nuclei in the high Arctic. Bigg, E.K., [1996,eng] 50-4317
- Ice nucleation activity associated with plants and fungi. Ashworth, E.N., et al, [1995,eng] 50-3278
- Ice nucleation genes as reporters. Panopoulos, N.J., [1995,eng] 50-3285
- Ice nucleation-active genes and proteins. Warren, G.J., [1995,eng] 50-3275
- Ice-nucleation properties of various bacterial species. Kiprianova, E.A., et al, [1995,eng] 50-3673
- Influence of temperature on crystallization of lactose in ice-cream. Livney, Y.D., et al, [1995,eng] 50-2745
- Kinetics of ice nucleation initiated by molecular crystals. Iatiminski, V.K., et al, [1995,eng] 50-3815
- Model of cloudiness evolution in cirrus cloud masses. Khvorostianov, V.I., [1995,eng] 50-4749
- Molecular modeling of the three-dimensional structure of bacterial Iaa proteins. Kajava, A.V., [1995,eng] 50-3276
- Natural ice nucleus measurement under high supersaturation. Mizuno, H., et al, [1995,eng] 50-3719
- On the global variation of precipitating layer clouds. Ryan, B.F., [1996,eng] 50-3293
- Physical interpretation of results from the HIPLEX-1 experiment. Cooper, W.A., et al, [1984,eng] 50-4920
- Precipitation sensitivity to cloud microphysical parameters. Liu, Y.Q., et al, [1996,eng] 50-4353
- Principles of ice nucleation. Vali, G., [1995,eng] 50-3271
- Rain production in convective clouds, pt.2. Reisin, T., et al, [1996,eng] 50-6325
- Rain production in convective clouds, pt.2. Reisin, T., et al, [1996,eng] 50-6325
- Rapid glaciation of slightly supercooled cumulus clouds. Mason, B.J., [1996,eng] 50-5010
- Relative humidity influences on cirrus cloud ice crystal formation. Heymsfield, A.J., et al, [1995,eng] 50-3259
- Role of nucleation in cryopreservation. Fahy, G.M., [1995,eng] 50-3288
- Role of uncompressed alcohol monolayers as ice nucleators. Majewski, J., et al, [1995,eng] 50-3040
- Roles of ice nucleators in cold tolerant invertebrates. Duman, J.G., et al, [1995,eng] 50-3281
- Simulation of rain production in convective clouds, pt.1. Reisin, T., et al, [1996,eng] 50-4369
- Studies on ice nucleating behavior of AgI-AgBr-CuBr system. Radhakrishnan, T., et al, [1996,eng] 50-4290
- Supercooling and ice nucleation in vertebrate ectotherms. Costanzo, J.P., et al, [1995,eng] 50-3282
- Tests for persistent effects of cloud seeding in a recent Australian experiment. Bigg, E.K., [1995,eng] 50-1249
- Thermal conductivity of model ice comet surfaces. Ibadinov, K.H., et al, [1987,eng] 50-1770
- Transduction of *ina* genes for bacterial identification. Wolber, P.K., et al, [1995,eng] 50-3286
- Unsuitability of meteoritic and other nuclei for polar stratospheric cloud freezing. Biermann, U.M., et al, [1996,eng] 50-6513

Ice openings

- 1993 biennial report. University of Washington. College of Ocean & Fisheries Science. Applied Physics Laboratory, [1993,eng] 50-5203
- Classification of arctic cloud and sea ice features in multi-spectral satellite data. Key, J.R., [1994,eng] 50-4357
- Extraction of deformation descriptors from spaceborne radar ice motion products. Li, S., et al, [1995,eng] 50-1812
- Formation and morphology of ice stalactites observed under deforming lead ice. Perovich, D.K., et al, [1995,eng] 50-452
- Heat flux from leads in pack ice from a Landsat TM image. Lindsay, R.W., [1994,eng] 50-5179
- Interaction between multiple line plumes: a model study with applications to leads. Ching, C.Y., et al, [1996,eng] 50-4408
- Monitoring lead dynamics with ERS-1 synthetic aperture radar imagery. Wackerman, C.C., et al, [1994,eng] 50-1512
- Panel report on 100 km scale (pack ice). Coon, M.D., et al, [1995,eng] 50-6295
- Preconditioning the Greenland Sea for deep convection: ice formation and ice drift. Visbeck, M., et al, [1995,eng] 50-567
- Retrieval of thin ice thickness from multifrequency polarimetric SAR data. Kwok, R., et al, [1995,eng] 50-349
- Sea ice and sediment export from the Laptev Sea fluvial lead during 1991/92 winter season. Dethleff, D., [1995,eng] 50-2073
- Sea ice failure mechanisms. Pritchard, R.S., [1995,eng] 50-6274
- Seismo-acoustic remote sensing of ice-mechanical processes in the Arctic. Schmidt, H., et al, [1995,eng] 50-6276

- Turbulence in the statically unstable oceanic boundary layer under arctic leads. McPhee, M.G., et al, [1996,eng] 50-4297
- Wind-induced ice floe rotation and icequakes north of the Alaskan Beaufort Sea coast. Kozo, T.L., et al, [1996,eng] 50-6508

See [also]: Polynyas

Ice optics

- AMANDA: Antarctic Muon And Neutrino Detector Array. Barwick, S.W., et al, [1994,eng] 50-4694
- Antarctic muon and neutrino detector AMANDA: first data and outlook. Lynch, J., et al, [1995,eng] 50-6742
- Arctic polar stratospheric cloud observations by airborne lidar. McCormick, M.P., et al, [1990,eng] 50-5988
- Backscattering radar measurements of spherical ice cloud crystals. Prodi, F., et al, [1996,eng] 50-4502
- Contribution to the structural study of high latitude cold ice. Vallon, M., [1963,fre] 50-5741
- Detection and monitoring of H₂O and CO₂ ice clouds on Mars. Bell, J.F., III, et al, [1996,eng] 50-5195
- Disposition of solar radiation in sea ice and the upper ocean. Ebert, E.E., [1995,eng] 50-572
- Distributions of volcanic aerosols in antarctic polar stratospheric clouds. Adriani, A., et al, [1995,eng] 50-2848
- Effect of sea ice frost flowers on infrared surface observations. Martin, S., et al, [1996,eng] 50-5858
- Effect of X-radiation on the plastic deformation of ice. Hu, X.H., et al, [1996,eng] 50-5866
- Electron cryo-microscopy of graphite in amorphous ice. Bötcher, B., [1995,eng] 50-1647
- Feasibility of infrared sensing of Martian cloud and surface ices. Johnson, B.R., et al, [1996,eng] 50-3865
- Greenland '90: a first step toward using the polar ice cap as a Cherenkov detector. Barwick, S.W., et al, [1992,eng] 50-4263
- Ice cloud microphysics in a general circulation model, pt.2. Fowler, L.D., et al, [1996,eng] 50-5016
- Interface location and flow visualization in water-ice systems. Elkouh, N., et al, [1996,eng] 50-6459
- Lidar observation of wintertime polar stratospheric clouds. Browell, E.V., et al, [1990,eng] 50-5989
- Microwave emission from density-stratified antarctic firn at 6 cm wavelength. West, R.D., et al, [1996,eng] 50-4892
- Neutron scattering of high pressure ice polymorphs. Li, J.C., et al, [1996,eng] 50-6344
- New laser plasma source for extreme-ultraviolet lithography. Jin, F., et al, [1995,eng] 50-3678
- Noctilucent cloud observations over Greenland by a Rayleigh lidar. Thayer, J.P., et al, [1995,eng] 50-4542
- Noctilucent clouds and the thermal structure near the arctic mesopause in summer. Lübken, F.J., et al, [1996,eng] 50-5453
- Parameterization of surface albedo for sea ice and its snow cover. Barry, R.G., [1996,eng] 50-5014
- Polar ice stratigraphy from laser-light scattering: scattering from ice. Ram, M., et al, [1995,eng] 50-3098
- Refractive index of vapor-deposited ice. Brown, D.E., et al, [1996,eng] 50-5300
- Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces. Zibordi, G., et al, [1996,eng] 50-5467
- Some active and passive microwave signatures of antarctic sea ice from mid-winter to spring 1991. Gohin, F., [1995,eng] 50-161
- Spectropolarimetry of the 3 micron ice feature toward the Becklin-Neugebauer object. Hough, J.H., et al, [1996,eng] 50-5504
- Spectroscopic damage to hydrated specimens in vitreous ice. Leapman, R.D., et al, [1995,eng] 50-1648
- Study of H₂O contamination on a cooled optical surface. Guo, Q., et al, [1995,eng] 50-6527
- Surface features of interstellar ice. McCoustra, M., et al, [1996,eng] 50-5244
- Thickness determination of a water film on dye-doped ice by fluorescence spectroscopy. Strausky, H., et al, [1996,eng] 50-3967
- Ultratransparent antarctic ice as a supernova detector. Halzen, F., et al, [1996,eng] 50-6323

Ice override

- Experimental studies on ice forces on conical structures using segmented model. Kato, K., et al, [1996,jpn] 50-5875
- Numerical simulation of arctic pressure ridging. Hopkins, M.A., [1995,eng] 50-6289
- Sea ice failure mechanisms. Pritchard, R.S., [1995,eng] 50-6274
- Sea ice mechanics research. Coon, M.D., et al, [1995,eng] 50-6284
- Shore ice pile-up and ride-up: field observations, models, theoretical analyses. Kovacs, A., et al, [1979,eng] 50-856

Ice passing

- Ice passage. [1996,eng] 50-4621

Ice physics

- Acoustic emissions during ice phase transformations. Sakharov, I.I., [1995,eng] 50-157
- Adsorption and desorption of water on single crystal MgO(100): the role of surface defects. Stürmann, M.J., et al, [1996,eng] 50-5937
- Adsorption and ionization of HCl on an ice surface. Banham, S.F., et al, [1996,eng] 50-5940
- Adsorption and photochemistry of dinitrogen tetroxide on low temperature ice layers. Rieley, H., et al, [1996,eng] 50-4295
- Adsorption of methane on natural snow. Chaix, L., et al, [1996,eng] 50-5963

Ice physics

- Aging effects on translational lattice vibrations in ice I_h. Fukuzawa, H., et al, [1996,eng] 50-6615
- AMANDA: Antarctic Muon And Neutrino Detector Array. Barwick, S.W., et al, [1994,eng] 50-4694
- Amorphous ice molecular transitions under electron bombardment. Kimmel, G.A., et al, [1995,eng] 50-156
- Anisotropy in the adsorption of H₂O at low coordination sites on Pt(111). Morgenstern, M., et al, [1996,eng] 50-6199
- Antarctic journal of the United States, vol.29, no.1.[1994,eng] 50-139
- Antifreeze proteins and their potential use in frozen foods. Griffith, M., et al, [1995,eng] 50-5691
- Blasting surface waste with ice. Ashley, S., [1995,eng] 50-1968
- C-band radar backscatter from antarctic first-year sea ice. 1. Jeffries, M.O., et al, [1995,eng] 50-6506
- C-band radar backscatter from antarctic first-year sea ice. 2. Morris, K., et al, [1995,eng] 50-6507
- Calculation of free energy for molecular crystals by thermodynamic integration. Bätz, L.A., et al, [1995,eng] 50-1951
- Classical and quantum mechanical studies of ice Ih near the melting temperature. Gai, H.D., et al, [1996,eng] 50-3099
- Comment on "Surface layers on ice" by C.A. Knight. Baker, M.B., et al, [1996,eng] 50-6059
- Comment on paper by Avila et al. Jayaratne, R., et al, [1996,eng] 50-5454
- Compression of ice to 210 gigapascals. Goncharov, A.F., et al, [1996,eng] 50-5445
- Condensation of cometary ice analogs. Patnaik, A., et al, [1996,eng] 50-6222
- Conductivity effects on electromagnetic emissions (EME) from ice fracture. O'Keefe, S.G., et al, [1996,eng] 50-4221
- Cooperative polarisation in ice I_h and the unusual strength of the hydrogen bond. Heggie, M.I., et al, [1996,eng] 50-3958
- Cosmology: evolution of ice in interstellar space and the early solar system. Kouchi, A., et al, [1995,eng] 50-1030
- Crack velocities in freshwater and saline ice. Petrenko, V.F., et al, [1996,eng] 50-5299
- Cryomicroscopic determination of ice crystal growth in the system 2,4-pentanediol/water. Mehl, P.M., [1996,eng] 50-2744
- Detecting layered ground ice using a high-precision ground-based magnetic survey. Matushkin, B.A., [1985,rus] 50-243
- Diffuse interface analysis of ice nucleation in undercooled water. Gránásky, L., [1995,eng] 50-1279
- Diffusive properties of polymer membranes prepared by freeze/thaw techniques. Hickey, A.S., et al, [1995,eng] 50-2698
- Dipole moment of the water molecule in the condensed phase: a periodic Hartree-Fock estimate. Gatti, C., et al, [1995,eng] 50-3817
- Disorder in ice Ih. Nield, V.M., et al, [1995,eng] 50-1134
- Dispersion-force effects in interfacial premelting of ice. Wilen, L.A., et al, [1995,eng] 50-2134
- Ductile-to-brittle transition of compressed ice. Schulson, E.M., et al, [1995,eng] 50-2157
- Effect of X-radiation on the plastic deformation of ice. Hu, X.H., et al, [1996,eng] 50-5866
- Elastic constants of ice VI by Brillouin spectroscopy. Tulk, C.A., et al, [1996,eng] 50-5506
- Elastic properties of dense H₂O-ices studied by Brillouin spectroscopy. Shimizu, H., [1996,eng] 50-6725
- Electric field effects on growing ice surface force curves. Slaughterbeck, C.R., et al, [1996,eng] 50-5939
- Electrolytic processes in dirty planetary ices. Drobyshevskii, E.M., et al, [1995,eng] 50-655
- Electromechanical phenomena in ice. Petrenko, V.E., [1996,eng] 50-4546
- Electron-beam-induced amorphization of ice III or IX obtained by high-pressure freezing. Sartori, N., et al, [1996,eng] 50-6531
- Electron-stimulated dissociation of amorphous ice. Kimmel, G.A., et al, [1995,eng] 50-2160
- Elliptical halos, Botlinger's rings, and the ice-plate snow-star transition. Trankle, E., et al, [1996,eng] 50-6612
- Energetics of framework formation in cubic clathrate hydrates. Kosiakov, V.I., et al, [1995,eng] 50-3677
- Enrichment of CO over N₂ by their trapping in amorphous ice and implications to comet P/Halley. Nosesco, G., et al, [1996,eng] 50-5834
- Erratum for paper by K. Fujii. Fujii, K., [1996,eng] 50-5938
- Evaporation rate, free energy, and entropy of amorphous water at 150 K. Speedy, R.J., et al, [1996,eng] 50-5920
- Evidence for ferroelectric ordering of ice Ih. Jackson, S.M., et al, [1995,eng] 50-1573
- Experimental study on the melting transition at interface between ice crystal and substrate. Furukawa, Y., et al, [1994,eng] 50-3072
- Fluctuations during melting. Grimsditch, M., et al, [1996,eng] 50-6345
- Fluorescence spectra and lifetime of 2-naphthol in H₂O- and D₂O-ice(I_h) single crystal. Ping, Q., et al, [1995,eng] 50-2161
- Formation mechanism of side branches of dendritic ice crystals grown from vapor. Gonda, T., et al, [1996,eng] 50-5193
- Formation of amino acid precursors in cometary ice environments by cosmic radiation. Kobayashi, K., et al, [1995,eng] 50-652
- Formation of organic molecules in astronomical ices. Schutte, W.A., [1995,eng] 50-653
- Freeze concentration by layer crystallization. Flesland, O., [1995,eng] 50-5943

Ice pileup

- Freezing of a salt solution in a packed bed. Chellaiah, S., et al. [1996.eng] 50-3909
- Frost. Henry, J.A., [1996.eng] 50-4982
- Geometry and energy calculations of the HS-III polyhedral gas hydrate framework. Kosiakov, V.I., et al. [1995.eng] 50-3676
- Giant facets at ice grain boundary grooves. Wilen, W.A., et al. [1995.eng] 50-973
- Glacier geophysics at Taylor Dome: year 4. Waddington, E.D., et al. [1994.eng] 50-1899
- Grain multiplication mechanism for sea ice transition zone formation. Wei, Y.C., et al. [1995.eng] 50-1143
- Greenland '90: a first step toward using the polar ice cap as a Cherenkov detector. Barwick, S.W., et al. [1992.eng] 50-4263
- Helium atom scattering study of water adsorption on the NaCl(100) single crystal surface. Bruch, L.W., et al. [1995.eng] 50-412
- High-density amorphous ice, the frost on interstellar grains. Jenniskens, P., et al. [1995.eng] 50-2780
- High-pressure elastic properties of the VI and VII phase of ice in dense H₂O and D₂O. Shimizu, H., et al. [1996.eng] 50-4355
- Hydrological bibliography of Switzerland for 1992. Sevruck, B., et al. [1992.eng] 50-5028
- Ice polymorph pressure determination in a diamond-anvil cell. Haselton, H.T., Jr., et al. [1995.eng] 50-4088
- Ice/supercooled water linear correlation length from Raman spectroscopy. Walrafen, G.E., et al. [1995.eng] 50-152
- Ion irradiation of astrophysical ices. Strazzulla, G., et al. [1995.eng] 50-3022
- Isotopic exchange during glass transition of amorphous ice. Fisher, M., et al. [1995.eng] 50-150
- Kinetics of ice nucleation initiated by molecular crystals. Iatimirskii, V.K., et al. [1995.eng] 50-3815
- Laboratory infrared spectra (2.3-23 μm) of SO₂ phases: applications to ice surface analysis. Nash, D.B., et al. [1995.eng] 50-1463
- Lattice vibrations in ice I_h. Itoh, H., et al. [1996.eng] 50-6616
- Liquid ice melting along a bundle of heated cylinders. Yamada, M., et al. [1996.eng] 50-4965
- Low and high temperature materials storage. Inada, Y., [1993.eng] 50-103
- Low-order model of the Heinrich event cycle. MacAyeal, D.R., [1993.eng] 50-2868
- Mean amplitude of the OH...O hydrogen bond in ice and liquid water. Iijima, T., [1996.eng] 50-5022
- Melting driven thermohaline convection. Bénard, C., et al. [1996.eng] 50-3611
- Metal hydrolysis on a deeply cooled ice surface. Winter, H., et al. [1995.eng] 50-1102
- Method for continuous measurement of ice cover thickness. Nordell, B., et al. [1995.eng] 50-1145
- Model ice properties. Zufelt, J.E., et al. [1996.eng] 50-5673
- Molecular dynamics simulation of vapor deposited amorphous ice. Essmann, U., et al. [1995.eng] 50-419
- Molecular dynamics study of surface melting on ice crystal. Nada, H., et al. [1994.eng] 50-3073
- Monitoring clathrate hydrate formation on ice surfaces. Pietras, T., et al. [1995.eng] 50-2127
- Natural convection for the melting of ice in porous media in a rectangular enclosure. Chang, W.J., et al. [1996.eng] 50-4533
- Near-infrared absorption coefficients of solid nitrogen as a function of temperature. Tryka, K.A., et al. [1995.eng] 50-1078
- Neutron scattering of high pressure ice polymorphs. Li, J.C., et al. [1996.eng] 50-6344
- New high-pressure phase of ice. Benoit, M., et al. [1996.eng] 50-6096
- New laser plasma source for extreme-ultraviolet lithography. Jin, F., et al. [1995.eng] 50-3678
- New simple route to the synthesis of protease substrates in ice. Ullmann, D., et al. [1996.eng] 50-6713
- Nucleation of microcracks in ice cubes compressed equally on all boundaries. Weiss, J., et al. [1996.eng] 50-5867
- Nucleation rates in freezing of molecular clusters. Bartell, L.S., [1995.eng] 50-2346
- Numerical models of heat transfer during food freezing. Tocci, A.M., et al. [1995.eng] 50-596
- O₂ on Ganymede: spectral characteristics and plasma formation mechanisms. Calvin, W.M., et al. [1996.eng] 50-4256
- Observation of Fano interference in high-pressure ice VII. Aoki, K., et al. [1996.eng] 50-3337
- Observation of slip transmission through a grain boundary in ice. Jia, K., et al. [1996.eng] 50-5297
- On radio detection of ultrahigh energy neutrinos in antarctic ice. Frichter, G.M., et al. [1996.eng] 50-4024
- On the scattering behaviour of bullet-rosette and bullet-shaped ice crystals. Strauss, B., [1996.eng] 50-6228
- Organic compounds produced by photolysis of simulated cometary ices. Bernstein, M.P., et al. [1995.eng] 50-2724
- Origin and thermal evolution of icy satellites. Coradini, A., et al. [1995.eng] 50-1069
- Overview of recent program on mechanical properties of sea ice. Cole, D.M., et al. [1995.eng] 50-1842
- Oxidation of S(IV) during riming by cloud droplets. Iribarne, J.V., et al. [1995.eng] 50-1103
- Phase equilibria in extended simple point charge ice-water systems. Báez, L.A., et al. [1995.eng] 50-2606
- Phase transformation in materials with nonuniform phase transition temperatures. Hong, J.S., et al. [1995.eng] 50-755

- Phase transition of the hydrogen-bonded crystals and ice. Fujii, K., [1995.eng] 50-1112
- Phase transitions of ice confined in mesopores. Hansen, E.W., et al. [1996.eng] 50-4141
- Phase transitions of water films adsorbed on pyrogenic silica. Bogdan, A., et al. [1996.eng] 50-2021
- Photochemistry of chlorine dioxide in ice. Pursell, C.J., et al. [1995.eng] 50-154
- Polar ice stratigraphy from laser-light scattering: scattering from ice. Ram, M., et al. [1995.eng] 50-3098
- Potential food applications of high-pressure effects on ice-water transitions. Kalichevsky, M.T., et al. [1995.eng] 50-1955
- Power law determination of ice crystal particle velocities. Mitchell, D.L., [1996.eng] 50-6558
- Premelting of ice in porous silica glass. Ishizaki, T., et al. [1996.eng] 50-6759
- Proceedings. Workshop on Future Directions in Snow and Ice Research. Gallatin Gateway, MT, Oct. 3-4, 1995, [1995.eng] 50-4623
- Proton dynamics of doped ice. Akiyama, T., et al. [1996.eng] 50-6726
- Proton-ordered ice structures at zero pressure. A quantum-mechanical investigation. Pisani, C., et al. [1996.eng] 50-5935
- Quartzlike polymorph of ice. Svishchev, I.M., et al. [1996.eng] 50-4412
- Radiation chemistry of ices of planetological interest at low temperature. Strazzulla, G., [1995.eng] 50-654
- Radiation-induced polymerization in high pressure ice. Kirukhin, D.P., et al. [1995.eng] 50-415
- Radioactive heating of porous comet nuclei. Prialnik, D., et al. [1995.eng] 50-1464
- Reactivity of imidazoles in pulse and γ-irradiated liquid and frozen systems. Kalecińska, E., et al. [1996.eng] 50-3527
- Refractive index and density of vapor-deposited ice. Berland, B.S., et al. [1995.eng] 50-3096
- Refractive index of ice in the 1.4-7.8 μm spectral range. Gosse, S., et al. [1995.eng] 50-3358
- Refractive index of vapor-deposited ice. Brown, D.E., et al. [1996.eng] 50-5300
- Refractive-index measurements of natural air-hydrate crystals in an antarctic ice sheet. Uchida, T., et al. [1995.eng] 50-977
- Residual entropy of ice. Ihm, J.S., [1996.eng] 50-3643
- Role of uncompressed alcohol monolayers as ice nucleators. Majewski, J., et al. [1995.eng] 50-3040
- Scanning microscopy of an autofluorescent biological substance. Evans, J., et al. [1996.eng] 50-4532
- Scavenging of electrons and radicals in frozen chloride-alcohol glasses. Kalecińska, J., [1996.eng] 50-3526
- Shallow ice coring and borehole casing at Dome Fuji Station, East Antarctica. Motoyama, H., et al. [1995.eng] 50-1694
- Similarity of vibrational spectra of high-density amorphous ice and high-pressure phase ice VI. Kolesnikov, A.I., et al. [1995.eng] 50-937
- Simulated structure of ice nanocrystal surface. Buch, V., et al. [1996.eng] 50-4183
- Simulation of clathrate hydrate thermal conductivity. Inoue, R., et al. [1996.eng] 50-5505
- Simulation of extraterrestrial ice radiation absorption properties. Schutte, W.A., et al. [1995.eng] 50-3023
- Solidification of pure liquids and liquid mixtures inside ducts and over external bodies. Fukusako, S., et al. [1994.eng] 50-2348
- Spectra of mixed ices on Io. Dahmani, R., et al. [1996.eng] 50-6071
- Spectrometry of nucleic acid frozen solutions. Boriak, O.A., et al. [1996.eng] 50-4046
- Spectroscopy of deuterium oxide ice adsorbed onto a hydrocarbon. Engquist, I., et al. [1995.eng] 50-1855
- Spectroscopy of deuterium oxide ice desorption and substrate wettability. Engquist, I., et al. [1995.eng] 50-1570
- Sputtering of ices in the outer solar system. Johnson, R.E., [1996.eng] 50-5296
- Sputtering of water ice surfaces and the production of extended neutral atmospheres. Shi, M., et al. [1995.eng] 50-2774
- Stratigraphy and physics of the Taylor Dome ice core. Fitzpatrick, J.J., [1994.eng] 50-1900
- Structural characteristics of hydrogen-bonded networks in water and ice systems. Dore, J.C., et al. [1995.eng] 50-2697
- Structure of amphiphile monolayer adsorbed on ice Ih. Bell, K.P., et al. [1996.eng] 50-4023
- Structure of ice Ih from analysis of single-crystal neutron diffuse scattering. Nield, V.M., et al. [1995.eng] 50-2696
- Structure of ordinary ice I_h. Part II: Defects in ice. Volume 2: Dislocations and plane defects. Petrenko, V.F., et al. [1994.eng] 50-390
- Structures and phase transitions of amorphous ices. Okabe, I., et al. [1996.eng] 50-5103
- Supercooling and the Mpemba effect: when hot water freezes quicker than cold. Auerbach, D., [1995.eng] 50-5706
- Surface features of interstellar ice. McCoustra, M., et al. [1996.eng] 50-5244
- Surface layers on ice. Knight, C.A., [1996.eng] 50-6058
- Theory of inelastic x-ray scattering by phonons in ice. Johansson, P., [1996.eng] 50-6329
- Thermal conductivity of model ice comet surfaces. Ibadinov, Kh.I., et al. [1987.eng] 50-1770
- Thermal conductivity of normal and deuterated tetrahydrofuran clathrate hydrates. Andersson, O., et al. [1996.eng] 50-2719
- Thermodynamic analysis of the influence of electric fields on frost formation. Ma, H.B., et al. [1995.eng] 50-2156

- Thermodynamic stability of hydrates for ethane, ethylene, and carbon dioxide. Kvamme, B., et al. [1996.eng] 50-5019
- Thickness determination of a water film on dye-doped ice by fluorescence spectroscopy. Strausky, H., et al. [1996.eng] 50-3967
- Time dependence of dislocation arrays in ice during recrystallization. van der Elken, J., et al. [1996.eng] 50-6346
- Time-dependent wave-packet studies on the sticking of HCl to an ice surface. Wang, L.C., et al. [1996.eng] 50-4767
- Ultrasonic measurement of melting ice heat transfer coefficients. Bhansali, A.P., et al. [1996.eng] 50-6760
- Ultraviolet photodesorption from water ice. Westley, M.S., et al. [1995.eng] 50-3024
- Unfrozen water types in hydrated phospholipid bilayers. Hsieh, C.H., et al. [1995.eng] 50-3038
- Uptake of HBr on ice at polar atmospheric conditions. Chu, L.T., et al. [1995.eng] 50-3090
- X-ray topographic study of ice crystal dislocations. Liu, F.P., et al. [1992.eng] 50-5958
- Ice pileup**
- Countermeasure for ice floes overtopping over breakwater due to wave action. Sasajima, T., et al. [1996.jpn] 50-5883
- Distinct element modelling of seabed-ice rubble interaction. Evgin, E., et al. [1993.eng] 50-5597
- Dry-flowing avalanche run-up and run-out. McClung, D.M., et al. [1995.eng] 50-456
- Experimental studies on ice forces on conical structures using segmented model. Kato, K., et al. [1996.jpn] 50-5875
- Shear strength of ice rubble in laboratory tests. Lehms, E., et al. [1995.eng] 50-181
- Shore ice pile-up and ride-up: field observations, models, theoretical analyses. Kovacs, A., et al. [1979.eng] 50-856
- Study of multi-year pressure ridges and shore ice pile-up. Kovacs, A., [1975.eng] 50-855
- Three-dimensional simulation of river ice jams. Hopkins, M.A., et al. [1996.eng] 50-6155
- Ice plasticity**
- Asymptotic stability of the viscous-plastic sea ice rheology. Schulkes, R.M.S.M., [1996.eng] 50-4534
- Creep of ice crystals and the measurement of strain: some technical considerations. Barrette, P.D., et al. [1995.eng] 50-2962
- Ductile deformation of columnar saline ice under triaxial compressive loading. Melton, J.S., et al. [1995.eng] 50-2957
- Ductile-to-brittle transition of compressed ice. Schulson, E.M., et al. [1995.eng] 50-2157
- Failure of columnar saline ice under biaxial compression. Schulson, E.M., et al. [1995.eng] 50-2119
- Fracture toughness of freshwater ice—part II: analysis and micrography. Weber, L.J., et al. [1996.eng] 50-5159
- New flow law of ice-sheet ice. Azuma, N., [1995.jpn] 50-991
- Observation of slip transmission through a grain boundary in ice. Jia, K., et al. [1996.eng] 50-5297
- Simulation of the ice-structure interaction under the parabolic strength criterion for ice. Matskevich, D.G., [1995.eng] 50-190
- Strength and viscosity of ice. Zaretskii, I.U.K., et al. [1996.rus] 50-6825
- Unified viscoplastic model for the inelastic behavior of ice. Lee, J.H., et al. [1996.eng] 50-6176
- Ice plastics friction**
- See [also]: Plastics ice friction
- Ice pressure**
- 10 meter scale (macro-crack): scale effects on the fracturing of sea ice. Dempsey, J.P., et al. [1995.eng] 50-6298
- 1995 perspective on global design ice loads. Kennedy, K.P., [1995.eng] 50-2937
- Abrasion mode of a circular cylindrical concrete structure due to sea ice movement. Itoh, Y., et al. [1995.eng] 50-191
- Abstracts. International Symposium on Okhotsk Sea and Sea Ice. 11th. Mombetsu, Hokkaido, Japan, Feb. 25-28, 1996, [1996.eng] 50-5872
- Application of ice cover mechanics in design and operations of marine structures. Riska, K., et al. [1995.eng] 50-6303
- Assessment of the design load of bridge piers constructed in rivers freezing over in winter. Yamauchi, T., et al. [1994.jpn] 50-2835
- Calculating vertical ice loads on vertical structures at variable water levels. Nishihata, A., et al. [1996.jpn] 50-5879
- Compressive failure of columnar saline ice under multiaxial loading. Schulson, E.M., [1995.eng] 50-6282
- Crack nucleation in columnar ice—recent developments. Gupta, V., et al. [1995.eng] 50-2958
- Crack nucleation mechanisms in columnar ice—recent developments. Gupta, V., et al. [1995.eng] 50-6281
- Creep of ice crystals and the measurement of strain: some technical considerations. Barrette, P.D., et al. [1995.eng] 50-2962
- Creep of saline ice at low stresses and high temperatures. Richter-Menge, J.A., et al. [1995.eng] 50-179
- Deformation and failure of an ice cover at an ice-resistant structure. Danilenko, V.I., et al. [1995.eng] 50-2938
- Distinct element modelling of seabed-ice rubble interaction. Evgin, E., et al. [1993.eng] 50-5597
- Ductile deformation of columnar saline ice under triaxial compressive loading. Melton, J.S., et al. [1995.eng] 50-2957
- Dynamic impact between a viscoelastic ice floe and a rigid structure. Morland, L.W., [1996.eng] 50-3824
- Dynamic responses of highway bridge under shock forces of icefloe. Cai, Z.R., et al. [1995.eng] 50-192

Ice pressure ridges

Ice rafting

- Effect of size on distributed damage and fracture of sea ice. Bažant, Z.P., et al. [1995,eng] 50-6278
- Experimental investigations of the behavior of ice at the contact zone. Timco, G.W., et al. [1995,eng] 50-3807
- Experimental studies on ice forces on conical structures using segmented model. Kato, K., et al. [1996,jpn] 50-5875
- Experimental study of ice load on conical structures. Ohta, M., et al. [1996,jpn] 50-5877
- Experimental study of tearing toughness K_{IIC} for fresh water ice. Li, G.W., et al. [1995,eng] 50-2974
- Fatigue reliability calculation for structure members of offshore fixed platform. Fang, H.C., et al. [1995,eng] 50-218
- Field and laboratory experiments and modeling of the constitutive behavior of sea ice. Cole, D.M., [1995,eng] 50-6280
- Field measurements of ice loads: thermal loads on hydro-electric structures. Comfort, G., et al. [1994,eng] 50-853
- Fundamentals of ice lens formation. Takagi, S., [1975,eng] 50-3390
- High frequency acoustic response of sea ice to single load cycles: a preliminary analysis. Langhorne, P.J., et al. [1995,eng] 50-2940
- Ice loads on fixed and floating structures: panel report. Croasdale, K.R., et al. [1995,eng] 50-6300
- Ice processes at the 1 km scale. Hopkins, M.A., et al. [1995,eng] 50-6297
- Ice surface oscillation measurements on SIMI using strain, heave and tilt sensors. Wadhams, P., et al. [1995,eng] 50-6306
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995,eng] 50-195
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995,eng] 50-2942
- Ice-structure interaction research and arctic development. Kennedy, K.P., et al. [1995,eng] 50-6304
- Ice-structure interaction under slippage boundary conditions. Matskevich, D.G., [1995,eng] 50-2936
- Impact ice load acting on flat plate due to wave action. Hanada, M., et al. [1996,jpn] 50-5880
- Indentation pressure in ice/vertical structure interaction. Takeuchi, T., et al. [1995,eng] 50-2738
- Investigation of the stress development during cryogenic pipe freezing. Keary, A.C., et al. [1996,eng] 50-6438
- Local pressure characteristics by indentor with segmented local ice pressure panels. Kamesaki, K., et al. [1996,jpn] 50-5876
- Mechanism of the abrasion of concrete structures due to the movement of ice sheets. Ito, Y., et al. [1995,eng] 50-2653
- Mechanisms of ice gouging. Kioka, S., et al. [1995,eng] 50-194
- Method of estimating sea ice flexural strength based on hydrometeorological data. Gavrilov, V.P., et al. [1995,eng] 50-214
- Modeling of ice thickness in manure pits. Carrier, D., et al. [1995,fre] 50-5658
- Models of ice-structure contact for engineering applications. Riska, K., [1995,eng] 50-3808
- NRC centre for ice loads on Beaufort Sea structures. Timco, G.W., [1996,eng] 50-3238
- Numerical simulation of arctic pressure ridging. Hopkins, M.A., [1995,eng] 50-6289
- Of ocean waves and sea ice. Squire, V.A., et al. [1995,eng] 50-5241
- On dynamics of ice-structure interaction. Kajaste-Rudnitski, J., [1995,eng] 50-4169
- On the indentation of a blunt ice wedge. Selvadurai, A.P.S., et al. [1995,eng] 50-180
- On the structure of pressured sea ice. Kovacs, A., [1970,eng] 50-3835
- Optimal design of bow plating for ships operating in ice. Brown, P.W., [1993,eng] 50-378
- Pack ice stresses and their relationship to regional deformation. Richter-Menge, J.A., et al. [1995,eng] 50-6287
- Panel report on 100 km scale (pack ice). Coon, M.D., et al. [1995,eng] 50-6295
- Panel report on the 10 km scale—floe cluster. Overland, J.E., et al. [1995,eng] 50-6296
- Physical processes in ice cover. Smirnov, V.N., et al. [1995,eng] 50-6315
- Physically based constitutive modeling of ice. Connor, J.J., et al. [1995,eng] 50-6288
- Physically-based constitutive modeling of ice: damage and failure. Wu, M.S., et al. [1995,eng] 50-6293
- Problem of choice of the design parameters for ice thickness. Polomoshnov, A.M., et al. [1996,eng] 50-5901
- Proceedings. Vol.2. International Offshore and Polar Engineering Conference, 5th, Hague, Netherlands, June 11-16, 1995, [1995,eng] 50-175
- Proceedings. Volume IV. Arctic/polar technology. International Conference on Offshore Mechanics and Arctic Engineering (OMAE), 14th, Copenhagen, Denmark, June 18-22, 1995, [1995,eng] 50-2935
- Proceedings. Sea Ice Mechanics and Arctic Modeling Workshop, Anchorage, AK, Apr. 25-28, 1995, [1995,eng] 50-6271
- Recent advances in ice interaction and force estimation processes for vertical structures. Arunachalam, A.V.M., [1995,eng] 50-197
- Relation between sea ice loads and arctic offshore structures. Blanchet, D., et al. [1991,eng] 50-1721
- Sea Ice Mechanics Initiative (SIMI) summary plan, FY94-95, [1995,eng] 50-6294
- Sea ice mechanics related to thermally-induced stresses and fracturing in pack ice. Lewis, J.K., et al. [1995,eng] 50-6290
- Sea ice mechanics research. Coon, M.D., et al. [1995,eng] 50-6284
- Self-excited oscillations in ice floes and icebergs. Smirnov, V.N., et al. [1995,eng] 50-2946
- Shear strength of ice rubble in laboratory tests. Lehmus, E., et al. [1995,eng] 50-181
- Shore ice pile-up and ride-up: field observations, models, theoretical analyses. Kovacs, A., et al. [1979,eng] 50-856
- SIMI (Sea Ice Mechanics Initiative) panel on the 1cm-1m scale. Schulson, E.M., et al. [1995,eng] 50-6299
- Simulation of sea ice behaviour—a parametric study. Evgin, E., et al. [1995,eng] 50-2952
- Simulation of ship-ice collision dynamics. Phillips, L.D., [1994,eng] 50-5670
- Simulation of the ice-structure interaction under the parabolic strength criterion for ice. Matskevich, D.G., [1995,eng] 50-190
- Some examples of stationary investigations of cryogenic processes in Transbaikalia. Poznanin, V.L., et al. [1993,rus] 50-114
- Statistics of ice-structure interaction. Kajaste-Rudnitski, J., [1995,eng] 50-199
- Structure and flexural strength of sea ice and consolidation of pressure ridges. Shapiro, L.H., et al. [1995,eng] 50-6283
- Structure of internal stresses in the uncompacted ice cover. Sukhoroukov, K.K., [1995,eng] 50-193
- Thickness and fracture toughness of freshwater ice. Chang, C., et al. [1995,eng] 50-2975
- Uniaxial compressive strength of sea ice in Okhotsk Sea. Masaki, T., et al. [1996,jpn] 50-5888
- Variation of local pressures during ice-structure interaction. Johnston, M., [1994,eng] 50-376
- Yield conditions of an assembly of discrete ice floes. Sayed, M., et al. [1995,eng] 50-182
- See [also]: Ice loads; Ice push; Pressure ridges
- Ice pressure ridges**
See [also]: Pressure ridges
- Ice prevention**
Aircraft deicing. Roed, A., [1992,eng] 50-2983
- Aircraft icing handbook. [1993,eng] 50-5064
- Airfoil with integral de-icer using overlapped tubes. Rauchhorst, R.L., [1993,eng] 50-2338
- Anti-icing system for a gas turbine engine. Mouton, P.C., [1995,eng] 50-3463
- ATC and the icing dilemma. Glines, C.V., [1992,eng] 50-2982
- Clean wings for winter. Steenblik, J.W., [1992,eng] 50-2981
- Coil freezing: what a relief. Jacobs, T.L., [1995,eng] 50-2458
- Current status and problems of countermeasures against snow and cold for oil storage tanks. Toyama, S., [1988,jpn] 50-2284
- Device for protecting a pipeline from freezing. Diachenko, K.S., et al. [1992,rus] 50-1916
- Electric current heater for pipes. Vainio, U., [1990,eng] 50-2342
- Electromagnetic wave attenuating and deicing structure. Webster, S.D., et al. [1991,eng] 50-2343
- Experiments of shallow-buried water supply pipes. Meng, F.J., [1989,chi] 50-1386
- Flameout; preventing ice and water ingestion flameouts in high- and low-bypass turbine engines. [1989,eng] 50-2985
- Ground deicing problems cause accidents. Sumwalt, R.L., III, [1993,eng] 50-2991
- Heated anemometer for atmospheric icing environments. Kenyon, P.R., et al. [1992,eng] 50-3638
- Ice detection for turboprop aircraft. Render, P.M., et al. [1995,eng] 50-3691
- Ice protection for water intakes of the Perry Nuclear Power Plant. Wahanik, R.J., et al. [1976,eng] 50-884
- Ice-preventive covering. Persson, S., et al. [1992,eng] 50-2232
- Icing countermeasures for small parabolic receiving antennas. Suzuki, M., et al. [1977,jpn] 50-5796
- Icing degrades aircraft performance; fluids provide best defense against ice on the ground. [1992,eng] 50-3575
- Icing menace, part II. Glines, C.V., [1990,eng] 50-2987
- Icing menace. Glines, C.V., [1989,eng] 50-2986
- Inflight icing part III: operations. Steenblik, J.W., [1995,eng] 50-4704
- Investigation into ice detection parameters for turboprop aircraft. Render, P.M., et al. [1996,eng] 50-4218
- Investigation of ice-resistant coatings used to protect ice-breaker hull. Babitshev, V.A., et al. [1995,eng] 50-201
- Kinetics of gas hydrate formation and kinetic inhibition in offshore oil and gas operations. Englezos, P., [1995,eng] 50-171
- Low-temperature environmental testing system design—Part 1. Lynde, P.G., et al. [1996,eng] 50-2457
- Manual for highway winter anti-icing practices. Ketcham, S.A., et al. [1996,eng] 50-6060
- Mitigation of ice jams. Burrell, B.C., [1995,eng] 50-790
- New U.S. rules established for aircraft ground deicing and anti-icing. [1992,eng] 50-3576
- Newest weapons in the battle against airframe icing. Czaplyski, V., [1994,eng] 50-2989
- Part 135 Icing: is half a reg better than none?. DiNunno, G., [1993,eng] 50-2990
- Priorities and small pumps in cold region water distribution systems. Mauser, M.W., [1995,eng] 50-5667
- Prevention of icing in the intakes of aerospace propellers. Scott, J.L., et al. [1991,eng] 50-2236
- Proceedings. International Experts' Meeting on Wind Power in Icing Conditions, Helsinki, Finland, 1992. Boreas-North Wind-Pohjatuuli, [1992,eng] 50-3626
- Self-regulating deicer valve. Phillips, R.W., II, [1988,eng] 50-2244
- Splash board for car bodies. Szabó, Z., [1989,eng] 50-2341
- State-of-the-art on power line de-icing. Laforte, J.L., et al. [1996,eng] 50-5369
- Tailplane stall: the rime is one reason. Dow, J.P., Sr., et al. [1993,eng] 50-2978
- Thermal anti-icing of aircraft structures. Arnold, M.J., et al. [1993,eng] 50-2234
- Turboprop tailplane icing. Steenblik, J.W., [1992,eng] 50-2979
- Which deicing fluids should be used and how. DiNunno, G., [1992,eng] 50-2984
- Wind measurements at Ylläs broadcasting station 1982-1991. Lehtonen, P., [1992,eng] 50-3632
- Wind tunnel tests of ice-free anemometer. Motyka, J., et al. [1985,eng] 50-484
- Winter flying. [1985,eng] 50-3793
- See [also]: Chemical ice prevention; Ice control; Ice removal; Salting
- Ice push**
Arctic coastal plain shorelines. Hill, P.R., et al. [1994,eng] 50-492
- Build-up, decay and role of the sea-ice cover of the Liefdefjord, NW Spitsbergen. King, L., et al. [1994,ger] 50-1596
- Countermeasure for ice floes overtopping over breakwater due to wave action. Sasajima, T., et al. [1996,jpn] 50-5883
- Glaciotectionic process at Svalbard. Hambrey, M.J., et al. [1995,eng] 50-6559
- Model of shoreward movement of grounded lake ice. Sasaki, T., et al. [1995,eng] 50-3329
- Relation between gouging force and the shape of ice floe. Terai, Y., et al. [1996,jpn] 50-5887
- Sea ice scouring on the inner shelf of the southeastern Canadian Beaufort Sea. Héquette, A., et al. [1995,eng] 50-1830
- Shore ice pile-up and ride-up: field observations, models, theoretical analyses. Kovacs, A., et al. [1979,eng] 50-856
- Thermal ice ridges or ramparts in Lake Kussharo. Toukairin, A., [1996,eng] 50-5909
- Ice rafting**
Atlantic Ocean sedimentary evidence for Pleistocene ice rafting. Robinson, S.G., et al. [1995,eng] 50-1110
- Barents Sea Pleistocene ice sheet growth deduced from marine sediment provenance. Elverhøi, A., et al. [1995,eng] 50-2012
- Benthic foraminiferal assemblages and sea ice drift in the Arctic Ocean. Wollenburg, J., [1995,ger] 50-2443
- Biogenic composition of ice-rafted debris in Atlantic Ocean bottom sediment. van Kreveld, S.A., et al. [1996,eng] 50-5219
- Cenozoic erosion and sediment yield in the drainage area of the Storfjorden Fan. Hjelstuen, B.O., et al. [1996,eng] 50-5310
- Cenozoic Northern Hemisphere glaciations. Thiede, J., et al. [1995,eng] 50-5240
- Changes in North Atlantic deep-water formation associated with the Heinrich events. Maslin, M.A., [1995,eng] 50-638
- Clastic sediment features in the sea area adjacent to the South Shetland Islands. Feng, Y.J., et al. [1989,chi] 50-6783
- Comment on paper by Baumann et al. Forström, L., et al. [1996,eng] 50-6709
- Comment on paper by Blanchon et al. Clark, P.U., et al. [1995,eng] 50-1101
- Deglaciation of a Late Devonian British ice sheet. Merritt, J.W., et al. [1995,eng] 50-1858
- Deposition of organic matter in the Norwegian-Greenland Sea during the past 2.7 million years. Wagner, T., et al. [1995,eng] 50-2016
- Eolian dust in deep sea sediments from arctic pack ice. Pirman, S., et al. [1989,eng] 50-5408
- Evidence for Heinrich layers off Portugal (Tore Seamount: 39°N, 12°W). Lebreiro, S.M., et al. [1996,eng] 50-5220
- Evidence for Holocene seismic triggering of Arctic Ocean turbidites. Grantz, A., et al. [1996,eng] 50-6223
- Flux of debris transported by ice at three Alaskan tidewater glaciers. Hunter, L.E., et al. [1996,eng] 50-4897
- Foraminiferal evidence for Greenland environmental change. Jennings, A.E., et al. [1995,eng] 50-6079
- Formation and morphology of ice stalactites observed under deforming lead ice. Perovich, D.K., et al. [1995,eng] 50-452
- Geochemical criterion for recognition of Pleistocene ice rafting events. Thomson, J., et al. [1995,eng] 50-1250
- Glaciolacustrine environments. Ashley, G.M., [1995,eng] 50-3593
- Gulf of Alaska paleoclimatological influence on marine ecology. Lagoe, M.B., et al. [1996,eng] 50-6625
- Hudson Bay-Hudson Strait jökulhlaups and Heinrich events: a hypothesis. Johnson, R.G., et al. [1995,eng] 50-354
- Ice drift reconstructions from ice rafted coal fragments. Bischof, J., et al. [1990,eng] 50-926
- Ice rafting history from the Spitsbergen ice cap over the last 200 kyr. Lloyd, J.M., et al. [1996,eng] 50-5224
- Ice rafting sources for Younger Dryas detrital carbonate in the North Atlantic. Andrews, J.T., et al. [1995,eng] 50-1564
- Ice-rafted tephra sedimentation of the North Atlantic. Lacasse, C., et al. [1996,eng] 50-4140
- Iceberg furrows as paleowind indicators in Lake Ojibway. Veilleux, J.J., et al. [1996,eng] 50-2498

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- Iceberg sediment deposits in a Greenland glacimarine setting. Syvitski, J.P.M., et al. [1996.eng] 50-5319
- Identification of ice-rafted sediments in Atlantic Ocean bottom cores. Auffret, G.A., et al. [1996.eng] 50-5218
- Isotope tracking of Pleistocene ice-rafted debris. Gwiazda, R.H., et al. [1996.eng] 50-4399
- Late Cenozoic history of the Scandinavian and Barents Sea ice sheets. Mangerud, J., et al. [1996.eng] 50-5305
- Latest Quaternary foraminifers and sediment transport in Perovskits Canyon, Bering Sea. Starratt, S.W., [1995.eng] 50-3347
- Linking physical property records of Quaternary sediments to Heinrich events. Chi, J., et al. [1996.eng] 50-5221
- Low probability of east Antarctica Pliocene deglaciation. Warnke, D.A., et al. [1996.eng] 50-6628
- Marine clay deposits in ice water around the South Shetlands. Zhou, F.G., et al. [1989.chi] 50-6781
- Marine glacial deposition around the South Shetland Islands. Huang, H.Y., et al. [1989.chi] 50-6784
- Marine record of deglaciation from the continental margin off Nova Scotia. Keigwin, L.D., et al. [1995.eng] 50-3001
- Marine sedimentation rates as evidence of continental glaciation. Goldschmidt, P.M., [1995.eng] 50-1828
- Middle and Late Pleistocene evolution of the Bear Island Trough Mouth Fan. Laberg, J.S., et al. [1996.eng] 50-5322
- Modern glaciomarine environments. Powell, R.D., et al. [1995.eng] 50-3594
- Monitoring Termination II at high latitude: anomalies in the planktic foraminifera record. Bauch, H.A., [1996.eng] 50-5223
- North Pacific rapid climate variability. Kotilainen, A.T., et al. [1995.eng] 50-338
- Organic carbon in late Quaternary Arctic Ocean sediments. Schubert, C.J., [1995.eng] 50-2454
- Origin of the driftwood on the coasts of Iceland; a dendrochronological study. Eggertsson, O., [1993.eng] 50-4771
- Paleoceanographic surface water variations derived from ice-rafted sediments. Maslin, M.A., et al. [1995.eng] 50-565
- Paleoglacial events on Baffin Island, Labrador Sea. Fillon, R.H., et al. [1981.eng] 50-3621
- Pleistocene glacial history of the Svalbard area. Hebbeln, D., [1992.eng] 50-2558
- Pollution distribution and hydrographic variability of the Kara Sea. Pavlov, V.K., et al. [1995.eng] 50-4557
- Quaternary sedimentary processes and budgets in Orphan Basin, southwestern Labrador Sea. Hiscott, R.N., et al. [1996.eng] 50-4579
- Rapid climatic shifts during isotope stages 2-4 in the polar North Atlantic. Dokken, T.M., et al. [1996.eng] 50-6105
- Russian-German cooperation: Laptev Sea system. Kassens, H., ed. et al. [1995.eng] 50-2059
- Sea ice and sediment export from the Laptev Sea flow lead during 1991/92 winter season. Dethleff, D., [1995.eng] 50-2073
- Sediment transport by Laptev Sea ice. Reimnitz, E., et al. [1995.eng] 50-2072
- Sediment yields, lithofacies and mudrock in glaciomarine environments. Cai, J.K., [1994.eng] 50-695
- Sedimentology and geomorphology of fjords. Syvitski, J.P.M., et al. [1995.eng] 50-1116
- Statistical analysis of lithology of Arctic Ocean sediments. Darby, D.A., et al. [1996.eng] 50-5025
- Study of brash ice in the proximal marine zone of a sub-polar tidewater glacier. Smith, N.D., et al. [1996.eng] 50-6224
- Weddell Sea glaciomarine sedimentation variations. Crawford, K., et al. [1996.eng] 50-6261
- Ice reconnaissance**
See [also]: Ice conditions; Ice reporting; Ice surveys
- Ice refrigeration**
Actual conditions and problems in air conditioning of buildings by ice thermal storage. Ibamoto, T., [1988.jpn] 50-2275
- Current status and prospects of air conditioning systems using ice thermal storage. Takakusa, M., [1988.jpn] 50-2276
- Formation of ice layers in a straight walled, rectangular diffuser. Neumann, S.O., et al. [1996.eng] 50-6469
- Heat transfer during the freezing of water in a cylinder. Yim, C.S., et al. [1996.eng] 50-6466
- Heat transfer in staggered and in-line tube bank designs for ice making. Intemann, P.A., et al. [1996.eng] 50-6447
- Ice thermal storage-type air conditioning systems as seen in the patents. Igarashi, S., et al. [1995.jpn] 50-1176
- Ice tower—maximum capacity in the smallest area. Ganter, E., [1995.eng] 50-2607
- Ice regime**
See [also]: Ice conditions
- Ice relaxation**
Annealing effects on the internal friction of artificial ice single crystals. Oguro, M., et al. [1981.jpn] 50-5792
- Propagation of elastic waves in ice. Ryzhkin, I.A., [1984.eng] 50-5787
- Ice removal**
Aircraft deicing. Roed, A., [1992.eng] 50-2983
- Anti-icing system for a gas turbine engine. Mouton, P.C., [1995.eng] 50-3463
- Asphaltic compositions and uses thereof. Long, H.W., [1995.eng] 50-3465
- ATC and the icing dilemma. Glines, C.V., [1992.eng] 50-2982
- Atmospheric ice ablation processes on Mt. Equinox, Vermont, U.S.A. Ryerson, C.C., et al. [1996.eng] 50-5375
- Balancing safety and the environment. Mericas, D., et al. [1994.eng] 50-2123

- Biological treatment of waste water containing glycols from deicing agents. Nuschke, L., et al. [1996.eng] 50-3619
- Calculation of the amount of salt required to melt ice and snow on highways. Schneider, T.R., [1962.eng] 50-3881
- Clean wings for winter. Steenblik, J.W., [1992.eng] 50-2981
- De-icer. Briscoe, J.A., et al. [1988.eng] 50-2333
- Deicing device for cable. LaForte, J.L., et al. [1995.eng] 50-3459
- Device for the removal of snow and ice from road pavements. Veteris, V.I., et al. [1992.rus] 50-1934
- Direct calcium magnesium acetate production. Flickinger, M.C., et al. [1992.eng] 50-2230
- Dynamic response of ice shedding on electrical transmission lines. Fekr, M.R., et al. [1996.eng] 50-5338
- Electric current heater for pipes. Vanio, U., [1990.eng] 50-2342
- Electro-impulse de-icer. Adams, L.J., [1995.eng] 50-3469
- Electro-impulse deicing of the NASA Lewis altitude wind tunnel turning vanes. Ross, R., [1988.eng] 50-4100
- Electromagnetic wave attenuating and deicing structure. Webster, S.D., et al. [1991.eng] 50-2343
- Evaluating the effects of icing on wind turbines. Walsh, M., [1992.eng] 50-3636
- Evaluation procedures for deicing chemicals and improved sodium chloride. Chappelow, C.C., et al. [1993.eng] 50-875
- Experiences of wind gauges used for measurements in cold regions. Tammelin, B., [1992.eng] 50-3637
- Flashover between power lines caused by ice shedding. Savadjiev, K., et al. [1996.eng] 50-5386
- Ground deicing problems cause accidents. Sumwalt, R.L., III, [1993.eng] 50-2991
- Ground deicing. George, F., [1995.eng] 50-3688
- Ice detection apparatus for transportation safety. Stolarczyk, L.G., et al. [1995.eng] 50-3475
- Ice detection for turboprop aircraft. Render, P.M., et al. [1995.eng] 50-3691
- Ice shedding effects on an overhead transmission line. Jamaledine, A., et al. [1996.eng] 50-5337
- Ice storm management on an electrical utility system. Hall, J.W., [1996.eng] 50-5367
- Ice-breaking device frees structures. [1989.eng] 50-5650
- Ice-pavement bond disbonding—fundamental study. Blackburn, R.R., et al. [1993.eng] 50-876
- Icing degrades aircraft performance; fluids provide best defense against ice on the ground. [1992.eng] 50-3575
- Icing menace, part II. Glines, C.V., [1990.eng] 50-2987
- Icing menace. Glines, C.V., [1989.eng] 50-2986
- Icing test and rework of WECS for use on Lapland's fjells. Böhmke, G., et al. [1992.eng] 50-3635
- Inflight icing: certification vs. reality. Steenblik, J.W., [1995.eng] 50-1962
- Investigation into ice detection parameters for turboprop aircraft. Render, P.M., et al. [1996.eng] 50-4218
- Method and apparatus for timed de-icing. Kugelman, M.M., et al. [1987.eng] 50-2334
- Microstructure and mechanical properties of some small impact ice accretions. Hammond, D.W., [1996.eng] 50-5339
- Mitigation of ice jams. Burrell, B.C., [1995.eng] 50-790
- New U.S. rules established for aircraft ground deicing and anti-icing. [1992.eng] 50-3576
- Newest weapons in the battle against airframe icing. Czaplyski, V., [1994.eng] 50-2989
- No ice on board. Johnson, J.P., et al. [1995.eng] 50-1973
- Ottawa tests low-cost salt pre-wetting system. Miner, M., [1995.eng] 50-3292
- Part 135 icing: is half a reg better than none? DiNunno, G., [1993.eng] 50-2990
- Passive melting of ice and snow on solar photovoltaic arrays. Ross, M.M.D., et al. [1996.eng] 50-5370
- Preliminary results of ice-aluminum interfacial fracture toughness testing. Whelan, A.E., et al. [1995.eng] 50-2959
- Process and product for removing ice or snow from a traffic surface. Dieupart, F., [1993.eng] 50-3468
- Project III.11.1: New concepts in removing ice. Ierusalimski, A.V., [1996.eng] 50-4447
- Protection against chloride-induced corrosion. Berke, N.S., et al. [1988.eng] 50-4229
- Research overview of ground de/anti-icing products. Bernardin, S., et al. [1996.eng] 50-5401
- Self-regulating deicer valve. Phillips, R.W., II, [1988.eng] 50-2244
- Small airline continues to win big battle against aircraft ground icing. [1992.eng] 50-3574
- Snow and ice removal apparatus. Stanger, T.P., [1995.eng] 50-3480
- State-of-the-art on power line de-icing. LaForte, J.L., et al. [1996.eng] 50-5369
- Study of concrete bridges exposed to deicing salts. Novokshchenov, V., [1989.eng] 50-4225
- Tailplane stall: the time is one reason. Dow, J.P., Sr., et al. [1993.eng] 50-2978
- Test program for aircraft ground anti-icing fluids. Myers, B.B., [1992.eng] 50-3797
- Thermal calculation for anti-icer with micro-ejector. Qui, X.G., et al. [1995.eng] 50-1067
- Thermal machine for clearing airport pavements of snow and ice. Mogutnov, A.A., [1992.rus] 50-1910
- Transmission line icing mechanism and study of new de-icing techniques. Jiang, X.L., et al. [1996.eng] 50-5368
- Turboprop tailplane icing. Steenblik, J.W., [1992.eng] 50-2979

- Which deicing fluids should be used and how. DiNunno, G., [1992.eng] 50-2984
- Windshield defroster. Yoshikawa, H., et al. [1987.eng] 50-2242
- Windshield wiping device for automobiles. Kühbauch, G., [1993.eng] 50-2389
- Ice reporting**
Cryospheric observing systems and data management. Barry, R.G., [1994.eng] 50-3415
- Demonstration project to supply near real time sea ice information. Blackford, C., et al. [1994.eng] 50-1516
- Development of an ice information system (IIS) to be implemented at the NERSC. Jacob, A., [1995.eng] 50-2742
- Drift ice off Hokkaido. [1992.jpn] 50-486
- Ice conditions along the North-East Passage in view of ship trafficability studies. Riska, K., [1995.eng] 50-198
- IceNav shipboard radar integration. Marton, C., [1995.eng] 50-4042
- MANICE. Manual of standard procedures for observing and reporting ice conditions. 8th edition. Canada. Atmospheric Environment Service. Ice Services Branch. [1994.eng] 50-409
- Manual of ice protection. Sipos, B., ed. [1973.hun] 50-443
- Meteorological support for navigation along the Northern Sea Route. Kondratiev, K.I.A., et al. [1994.eng] 50-648
- Monitoring and modelling the ice conditions offshore Greenland. Valeur, H.H., et al. [1995.eng] 50-2971
- Oceanic remote sensing and sea ice monitoring. Johannessen, J.A., ed. et al. [1994.eng] 50-1509
- Remote sensing of sea ice by passive microwave radiometer. Enomoto, H., [1996.jpn] 50-3506
- Report of the International Ice Patrol in the North Atlantic, 1994 season. U.S. Coast Guard. [1994.eng] 50-52
- Response of a research aircraft to icing and evaluation of severity indices. Politovich, M.K., [1996.eng] 50-4406
- River ice motion detector. Zufelt, J.E., et al. [1995.eng] 50-389
- Satellite mapping of algal blooms and sea ice in the North Sea and the Barents Sea. [1994.eng] 50-1517
- Satellite radar monitoring of ice drift in the Laptev Sea. Aleksandrov, V.I., et al. [1995.eng] 50-2062
- Spaceborne radar imagery for ice reporting in the Baltic Sea. Hakansson, B., et al. [1995.eng] 50-1821
- United States Navy operational oceanographic nowcast/forecast system. Durham, D.L., [1994.eng] 50-5176
- Validation and evaluation of a workstation for monitoring sea ice. McIntyre, N., et al. [1994.eng] 50-1515
- See [also]: Ice surveys
- Ice ridges**
See [also]: Pressure ridges
- Ice roads**
Device for shaping ice roads. Khan, V.B., et al. [1992.rus] 50-1933
- New challenges for the pipeline engineer in the Russian Arctic. Brown, R.J., [1995.eng] 50-212
- Temporary snow and ice pavement structures. Scher, R.L., [1996.eng] 50-6189
- Using sea ice as ice platforms and ice roads in fishery harbors. Okubo, Y., et al. [1996.jpn] 50-5889
- Ice routing**
Arctic Pilot Project integrated route analysis. Chapter 2. Physical aspects of the route areas. [1981.eng] 50-3558
- Experimental voyage through Northern Sea Route. Yamaguchi, H., et al. [1996.jpn] 50-5874
- Ice conditions along the North-East Passage in view of ship trafficability studies. Riska, K., [1995.eng] 50-198
- Potential resistance of the Kara Sea ice cover. Gavrilov, V.P., et al. [1995.eng] 50-185
- Sea ice forecasting for ship routing and operations. Pritchard, R.S., et al. [1995.eng] 50-6301
- Validation and evaluation of a workstation for monitoring sea ice. McIntyre, N., et al. [1994.eng] 50-1515
- Ice rubber friction**
See [also]: Rubber ice friction
- Ice runways**
Aircraft operation for earth science study in the Yamato Mountains by JARE 35. Funaki, M., [1995.jpn] 50-3496
- Antarctic airfields. Mellor, M., [1995.eng] 50-1192
- Artificially compacted snow and temperature regime in a glacier active layer. Nazarov, V.D., [1992.rus] 50-149
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995.eng] 50-6322
- Australian ice airstrip is a failure. Handmer, D., et al. [1990.eng] 50-3841
- Canadian Air Force ice strip requirements. [1982.eng] 50-4594
- Compacted snow runway technology at McMurdo. Blaisdell, G.L., et al. [1995.eng] 50-1193
- Concept of the cooperative air transport system in East Antarctica. Klovov, V., et al. [1994.eng] 50-4279
- Effects of temperature and density on snow cover stability of the Molodzhnaya runway. Nazarov, V.D., [1992.rus] 50-146
- Pegasus: a glacial-ice runway for wheeled flight operations at McMurdo Station. Blaisdell, G.L., et al. [1995.eng] 50-6501
- Sea ice landing strip for Boeing-727 in northern Greenland. Sinha, N.K., [1995.eng] 50-2973
- Spring and summer radiation regime in artificially compacted snow. Nazarov, V.D., [1992.rus] 50-148
- Temperature regime of artificially compacted snow of the Molodzhnaya runway. Nazarov, V.D., [1992.rus] 50-147
- Temporary snow and ice pavement structures. Scher, R.L., [1996.eng] 50-6189

Ice salinity

- United States Antarctic Program. Roberts, C.A., et al, [1994,eng] 50-105
Workshop on Antarctic Air Transport Networks. Council of Managers of National Antarctic Programs, [1995,eng] 50-6270

Ice salinity

- Comparisons between the Okhotsk Sea and the Baltic Sea ice. Shirasawa, K., et al, [1996,eng] 50-5904
Exclusion of sodium chloride from ice during freezing. Cragin, J.H., [1995,eng] 50-3131
Freezing point depression by common salts: implications for corrosion in cold climates. Brass, G.W., [1996,eng] 50-5951
Grain structure of first year sea ice in a Greenland fjord. Johnston, M., et al, [1995,eng] 50-2965
Life forms in antarctic sea ice. Dahms, H.U., [1992,ger] 50-646
Method of estimating sea ice flexural strength based on hydrometeorological data. Gavrilov, V.P., et al, [1995,eng] 50-214
Modelling of icing on structures from fresh and light salt water. Frolov, A.D., et al, [1996,eng] 50-6458
Overview of recent program on mechanical properties of sea ice. Cole, D.M., et al, [1995,eng] 50-1842
Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savilev, B.A., [1963,rus] 50-3832

Ice sampling

- Chlorophyll distribution in a body of fresh water covered with ice. Zavoruev, V.V., et al, [1996,eng] 50-5816
Flux of debris transported by ice at three Alaskan tidewater glaciers. Hunter, L.E., et al, [1996,eng] 50-4897
Instruments for coring, structure and composition analysis and monitoring sea ice. Zagorodnov, V.S., et al, [1995,eng] 50-6317
Interpretation of hydrochemical evidence for meltwater routing at a high arctic glacier. Hodgkins, R., et al, [1995,eng] 50-2432
Report of the Hokkaido University 3rd Alaska glacier survey, June 17-July 28, 1975. Higashi, A., [1976,jpn] 50-482

Ice scoring

- Arctic coastal plain shorelines. Hill, P.R., et al, [1994,eng] 50-492
Arctic pipelines get to grips with scour. [1990,eng] 50-5587
Centrifuge modeling and numerical simulation of ice scour. Yang, Q.S., et al, [1996,eng] 50-5936
Estimation of burial depths for pipelines in arctic regions. Chouinard, L.E., [1995,eng] 50-1839
Glacial geomorphic features in the northern Barents Sea. Solheim, A., et al, [1990,eng] 50-927
Ice force and scour instrumentation for the White River, Vermont. Zabliansky, L.J., [1996,eng] 50-6073
Ice studies on the northern Sakhalin offshore. Truskov, P.A., et al, [1995,eng] 50-6316
Iceberg furrows as paleowind indicators in Lake Ojibway. Veillette, J.J., et al, [1996,eng] 50-2498
Impact of ice scouring on polar benthic habitats. Gunt, J., et al, [1996,eng] 50-6567
Lake Erie ice scour study. Lake, K., [1991,eng] 50-491
Large-diameter glory hole drilling: the evolution from 12- to 20-ft diameter. Shields, R.G., [1991,eng] 50-1738
Marine ecology of the Laguna San Rafael (southern Chile): ice scour and opportunism. Davenport, J., [1995,eng] 50-1105
Marine ice bottom gouging: some mechanisms and an approach to depth evaluation. Riabinin, V.E., et al, [1995,eng] 50-6314
Mechanisms of ice gouging. Kioka, S., et al, [1995,eng] 50-194

- Nearshore geotechnical and environmental properties in arctic regions. Clausner, J.E., et al, [1978,eng] 50-3941
Pipeline stability in an ice-scoured seabed. Clark, J.L., et al, [1990,eng] 50-100
Pollution distribution and hydrographic variability of the Kara Sea. Pavlov, V.K., et al, [1995,eng] 50-4557
Relation between gouging force and the shape of ice floe. Terai, Y., et al, [1996,jpn] 50-5887
Russian-German cooperation: Laptev Sea system. Kassens, H., ed, et al, [1995,eng] 50-2059
Sea floor morphology and glacial history of the Barents Sea. Solheim, A., et al, [1988,eng] 50-887
Sea ice induced gouging of the sea floor. Weeks, W.F., et al, [1995,eng] 50-6302
Sea ice scouring on the inner shelf of the southeastern Canadian Beaufort Sea. Héquette, A., et al, [1995,eng] 50-1830
Sediment reworking by ice gouging in the western Laptev Sea. Lindemann, F., et al, [1995,eng] 50-2096
Study of multi-year pressure ridges and shore ice pile-up. Kovacs, A., [1975,eng] 50-855
Underwater maintenance and inspection of CP systems (Cook Inlet, Alaska). Daley, J.C., et al, [1996,eng] 50-5502
See [also]: Stratons

Ice scouring

See [also]: Ice scoring

Ice sheets

- 10-century comparison of prominent bipolar volcanic events in ice cores. Langway, C.C., Jr., et al, [1995,eng] 50-583
110,000-yr record of explosive volcanism from the GISP2 (Greenland) ice core. Zielinski, G.A., et al, [1996,eng] 50-4575
135,000-yr Vostok SPECMAP common temporal framework. Sowers, T., et al, [1993,eng] 50-2867
Algorithm modeling stress gradients in grounded glaciers. Blatter, H., [1995,eng] 50-454

- Alteration of volatile inventories by polar clathrate formation on Mars. Musselwhite, D., et al, [1995,eng] 50-2133
Altimeter retracking algorithm accuracy for Greenland ice sheet growth. Davis, C.H., [1995,eng] 50-980
Antarctic geography. Siple, P.A., [1956,eng] 50-6095
Antarctic ice sheet melting in the southeast Pacific. Jacobs, S.S., et al, [1996,eng] 50-5458
Antarctic ice sheet. Drewry, D.J., [1996,eng] 50-4976
Antarctic journal of the United States, vol.28, no.4, [1993,eng] 50-138
Application of synthetic aperture radar (SAR) imagery on antarctic glaciology. Takahashi, A., et al, [1995,jpn] 50-4553
Arctic Centre news, 1993, No.3, [1993,eng] 50-3599
Arctic ice cap shrinking. Lange, G., [1993,eng] 50-1443
Aromatic hydrocarbons in Greenland ice and atmosphere. Masclet, P., et al, [1995,eng] 50-2572
Atmospheric chemistry changes versus past climate inferred from polar ice cores. Legrand, M., [1995,eng] 50-1643
Atmospheric CO₂ variations inferred from antarctic ice composition. Etheridge, D.M., et al, [1996,eng] 50-3446
Atmospheric surface pressure over the interior of Antarctica. Radok, U., et al, [1996,eng] 50-5678
Atomic emission spectrometry of Greenland snow lead impurities. Kobiński, R., et al, [1995,eng] 50-4082
Barents Sea ice sheet retreat. Forman, S.L., et al, [1996,eng] 50-5585

- Barents Sea Pleistocene ice sheet growth deduced from marine sediment provenance. Elverhøi, A., et al, [1995,eng] 50-2012
Behavior of the East Antarctic ice sheet as deduced from a coupled GCM/ice-sheet model. Verbitskii, M.I.A., et al, [1995,eng] 50-4538
Biomass burning recorded in the GISP2 ice core: a record from eastern Canada? Taylor, K.C., et al, [1996,eng] 50-4370
Biomass burning signatures in Greenland snow and atmosphere. Dibb, J.E., et al, [1996,eng] 50-3152
Case for cold-based continental ice sheets—a transient thermal model. Heine, J.T., et al, [1996,eng] 50-4890
Century of accumulation and temperature changes in Dronning Maud Land, Antarctica. Isaksson, E., et al, [1996,eng] 50-4352

- Changes in North Atlantic deep-water formation associated with the Heinrich events. Maslin, M.A., [1995,eng] 50-638
Changes in permafrost conditions. Vaikmäe, R., et al, [1995,eng] 50-506
Chinese loess accumulation compared to Greenland ice core climatology. An, Z.S., et al, [1995,eng] 50-1065
Chronology of late Wisconsin ice retreat from the western Ross Sea, Antarctica. Licht, K.J., et al, [1996,eng] 50-3814
Climate and ice-snow cover. Peng, G.B., et al, [1992,chi] 50-1168

- Climatic implications of solar modulation of cosmogenic isotopes in antarctic ice cores. Steig, E.J., et al, [1996,eng] 50-3549
Coincident events between SPASE and AMANDA detectors. Miller, T., et al, [1995,eng] 50-4305
Comment on paper by Baumann et al. Forsström, L., et al, [1996,eng] 50-6709
Comment on paper by Blanchon et al. Clark, P.U., et al, [1995,eng] 50-1101
Comment on paper by Reid, Jr., et al. Sharp, R.P., et al, [1996,eng] 50-6540

- Comparison of ice-sheet satellite altimeter retracking algorithms. Davis, C.H., [1996,eng] 50-2703
Contribution to the structural study of high latitude cold ice. Vallon, M., [1963,fre] 50-5741
Contributions of snow and fog to Greenland ice sheet ionic variations. Bergin, M.H., et al, [1995,eng] 50-586
Cores. Kneller, M., [1996,eng] 50-4981
Correction of satellite radar altimetry of antarctic ice sheets. Cooper, A.P.R., et al, [1996,eng] 50-5073

- Coupling PIXE and SEM/EDAX for characterizing atmospheric aerosols in ice-cores. Laj, P., et al, [1996,eng] 50-6324
Deep ice stris debate on climate stability. Monastersky, R., [1993,eng] 50-4800
Description of the Martian polar cap breeze. Fernández, W., [1995,eng] 50-3671
Diatoms in South Pole ice: implications for eolian contamination of Sirius Group deposits. Kellogg, D.E., et al, [1996,eng] 50-3387

- Diel variations of H₂O₂ in Greenland: a discussion of the cause and effect relationship. Bales, R.C., et al, [1995,eng] 50-634
Digital enhancement of ground probing radar data. Rees, H.V., et al, [1992,eng] 50-66
Distribution of deuterium excess in surface snow of the antarctic ice sheet. Ren, J.W., et al, [1995,eng] 50-978
Distribution of hydrogen peroxide in surface snow over antarctic ice sheet. Kamiyama, K., et al, [1996,eng] 50-3452

- Dynamics of ice flow. Menzies, J., [1995,eng] 50-3585
Elastic response of the earth to interannual variations in antarctic precipitation. Conrad, C.P., et al, [1995,eng] 50-3089
Elasto-delayed-elastic simulation of short-term deflection of fresh-water ice covers. Sinha, N.K., et al, [1996,eng] 50-5474

- Electrical conductivity measurements in ice. Sugiyama, K., et al, [1995,eng] 50-2575
Elevation change of the Greenland ice sheet from satellite altimetry. Wingham, D.J., [1995,eng] 50-5237
Erosion of the Laurentide region of North America by glacial and glaciofluvial processes. Bell, M., et al, [1990,eng] 50-1789

- ERS-1 altimetry on the Greenland ice sheet: preliminary investigations of annual variations. Andersen, O.B., [1994,eng] 50-5033

- Estimates of Greenland atmospheric impurity variations during deglaciation. Alley, R.B., et al, [1995,eng] 50-1872
European paleoclimatic variations inferred from Greenland ice core isotope analysis. Hafidason, H., et al, [1995,eng] 50-2528

- Evidence for a fluidized till deposit on the Ross Sea continental shelf. Jahns, E., [1994,eng] 50-2695

- Final stages in Laurentide ice sheet collapse, Hudson Strait. Andrews, J.T., et al, [1995,eng] 50-6556

- First results of ¹⁵N/¹⁴N ratios in nitrate from alpine and polar ice cores. Freyer, H.D., et al, [1996,eng] 50-3724

- Forest fire records inferred from Greenland ice core chemistry. Legrand, M., et al, [1996,eng] 50-3447

- Fracture toughness of ice and firn determined from the modified ring test. Fischer, M.P., et al, [1995,eng] 50-458

- Freshwater sub-ice antarctic lake. Kapitsa, A.P., et al, [1996,eng] 50-5213

- Geomorphology and dynamics of the Laurentide Ice Sheet in Wisconsin. Ham, N.R., [1994,eng] 50-693

- Glacial drainage towards the Mediterranean during the Middle and Late Pleistocene. Arkhipov, S.A., et al, [1995,eng] 50-1799

- Glacial flow systems in the zone of confluence between the Scandinavian and Novaya Zemlya ice sheets. Punkari, M., [1995,eng] 50-2130

- Glacial isostatic uplift of Tibet as a consequence of a former ice sheet. Kuhle, M., [1995,eng] 50-6064

- Glacial rebound of the British Isles—III: constraints on mantle viscosity. Lambeck, K., et al, [1996,eng] 50-4737

- Glaciers and ice sheets. Menzies, J., [1995,eng] 50-3584

- Glacio-meteorological and isotopic studies along the ECG line, central Greenland. Fischer, H., et al, [1995,eng] 50-1873

- Global warming cuts no ice in Greenland. Gribbin, J., [1995,eng] 50-1966

- Great lake under the ice. Ellis-Evans, J.C., et al, [1996,eng] 50-5601

- Greenland '90: a first step toward using the polar ice cap as a Cherenkov detector. Barwick, S.W., et al, [1992,eng] 50-4263

- Greenland and United Kingdom paleotemperatures comparisons from Greenland snow accumulation rates. Lowe, J.J., et al, [1995,eng] 50-1082

- Greenland ice core records and rapid climate change. Dowdeswell, J.A., et al, [1995,eng] 50-5239

- Greenland ice core sediments correlated with oceanic sediments. Grönvold, K., et al, [1995,eng] 50-1251

- Greenland ice sheet climate record of the past 16,500 years. Stuiver, M., et al, [1995,eng] 50-2015

- Greenland ice sheet in response to various climate scenarios. Calov, R., et al, [1996,eng] 50-6435

- Greenland ice sheet thickness changes measured by laser altimetry. Krabill, W., et al, [1995,eng] 50-751

- Greenland ice sheet thickness changes measured by laser altimetry. Thomas, R., et al, [1993,eng] 50-4803

- Greenland Ice Sheet. Alley, R.B., [1996,eng] 50-4986

- Greenland paleotemperatures derived from ice core isotope profiles. Johnsen, S.J., et al, [1995,eng] 50-2027

- Greenland's ice holds key to climate puzzle. Kiernan, V., [1996,eng] 50-6546

- Groundwater flow beneath ice sheets: part I—large scale patterns. Boulton, G.S., et al, [1995,eng] 50-2128

- Growth and decay of the Laurentide Ice Sheet and comparisons with Fennoscandia. Ives, J.D., et al, [1990,eng] 50-1787

- Gulf of Mexico meltwater influx during Laurentide deglaciation. Marchitto, T.M., et al, [1995,eng] 50-340

- Heat flux over a melting Greenland ice sheet. Braithwaite, R.J., [1995,eng] 50-1877

- Heinrich events and western US glaciation. Clark, P.U., et al, [1995,eng] 50-558

- Hemispheric climate relations revealed by bottom sediment/ice core correlations. Charles, C.D., et al, [1996,eng] 50-6632

- High-resolution ammonium ice core record covering a complete glacial-interglacial cycle. Fuhrer, K., et al, [1996,eng] 50-3448

- Historical records of fatty acids in an ice core from Site-J, Greenland. Kawamura, K., et al, [1995,eng] 50-3247

Ice shelves

Ice shelves

- Ice-sheet growth and high-latitudes sea-surface temperature. Berger, A., et al. [1996,eng] 50-5862
- Ice-volume forcing of East Asian winter monsoon variations in the past 800,000 years. Ding, Z.L., et al. [1995,eng] 50-965
- Implications of bedrock cosmic ray exposure age for Fennoscandian ice sheet height. Brook, E.J., et al. [1996,eng] 50-3813
- Increasing CO₂, decreasing insolation, and initiation of ice sheets. Chu, S.P. [1994,eng] 50-671
- Influence of a finite glaciation phase on predictions of post-glacial isostatic adjustment. Mitrovica, J.X., et al. [1995,eng] 50-2723
- Inland ice and nunataks, Queen Maud Land. Swinbank, C., [1959,eng] 50-6202
- Interhemispheric correlation of Late Pleistocene glacial events. Lowell, T.V., et al. [1995,eng] 50-231
- Inventory of Antarctic sub-glacial lakes. Siegert, M.J., et al. [1996,eng] 50-6415
- Inverse relation between ice extent and the late Paleozoic glacial record of Gondwana. González-Bonorio, G., et al. [1995,eng] 50-1807
- Is there any real evidence for a huge shelf ice sheet in East Siberia? Sher, A. [1995,eng] 50-499
- Isotope analysis of Greenland ice sheet stratigraphic disturbances. Fuchs, A., et al. [1996,eng] 50-5461
- Isotope composition of the ice and subglacial geology near the Allan Hills. Faure, G., et al. [1993,eng] 50-6319
- Isotopic climatic records in the Allerød-Bølling-Younger Dryas and post-Younger Dryas events. Epstein, S., [1995,eng] 50-2804
- Large scale motion and temperature distributions in land based ice shields—a review. Hutter, K., et al. [1996,eng] 50-6430
- Last Scottish ice-sheet: facts and speculative discussion. Sissons, J.B., [1981,eng] 50-3620
- Late Cenozoic history of the Scandinavian and Barents Sea ice sheets. Mangerud, J., et al. [1996,eng] 50-5305
- Late Cenozoic tectonics and the dynamics of the west antarctic ice sheet. Behrendt, J.C., et al. [1994,eng] 50-1884
- Late Wisconsinian ice retreat from the Scotian Shelf. King, L.H., [1996,eng] 50-6533
- Lead isotopic ratios in Greenland and antarctic snow and ice. Chisholm, W., et al. [1995,eng] 50-1256
- Limiting resolution of ice-sheet elevations derived from pulse-limited satellite altimetry. Wingham, D.J., [1995,eng] 50-461
- Limits on the areal extent of the Barents Sea ice sheet in Late Weichselian time. Lambeck, K., [1996,eng] 50-5307
- Little Ice Ages. Grove, J.M., [1996,eng] 50-4993
- Long-term ice-sheet stability study in Ross Sea cores. Licht, K., et al. [1994,eng] 50-1893
- Low-order model of the Heinrich event cycle. MacAyeal, D.R., [1993,eng] 50-2868
- Maintenance of the last great ice sheets: a UGAMP GCM study. Hall, N.M.J., et al. [1996,eng] 50-5531
- Mapping tide-water glacier dynamics in East Greenland using Landsat data. Dwyer, J.L., [1995,eng] 50-1879
- Margin of the last Barents-Kara ice sheet at Markhida, northern Russia. Tveranger, J., et al. [1995,eng] 50-2014
- Marine fossils and glacial history of raised beach deposits around Lützow-Holm Bay. Igarashi, A., et al. [1995,eng] 50-3695
- Marine record of deglaciation from the continental margin off Nova Scotia. Keigwin, L.D., et al. [1995,eng] 50-3001
- Measurement of ice-sheet topography using satellite-radar interferometry. Joughin, I., et al. [1996,eng] 50-4887
- Measuring firn thickness and accumulation temperature. Craig, H., et al. [1996,eng] 50-3640
- Measuring geophysical parameters of the Greenland ice sheet using airborne radar altimetry. Ferraro, E.J., et al. [1995,eng] 50-1881
- Meltwater generation, infiltration and runoff from the Greenland ice sheet. Zou, J.H., [1993,eng] 50-699
- Meteorites as surface exposure markers of blue icefield stability. Benoit, P.H., et al. [1994,eng] 50-1886
- Meteorites as time markers on antarctic blue ice fields. Benoit, P.H., [1995,eng] 50-1408
- Method for continuous measurement of ice cover thickness. Nordell, B., et al. [1995,eng] 50-1145
- Microwave emission from density-stratified antarctic firn at 6 cm wavelength. West, R.D., et al. [1996,eng] 50-4892
- Microwave emission from polar firn. West, R.D., [1994,eng] 50-662
- Microwave remote sensing of ice sheets by SAR interferometry. Nishio, F., [1995,eng] 50-1175
- Model of arctic radiation fog trace gas processing. Bergin, M.H., et al. [1996,eng] 50-5764
- Model of Greenland and antarctic ice sheet thickness variations. Verbitskii, M.I.A., et al. [1995,eng] 50-642
- Moraine observations at the foot of Independence Hills. Ishimaru, S., et al. [1995,eng] 50-4382
- New flow law of ice-sheet ice. Azuma, N., [1995,eng] 50-991
- No iridium anomaly after the 1908 Tunguska impact: evidence from a Greenland ice core. Rasmussen, K.L., et al. [1995,eng] 50-2741
- North Atlantic fossils and Heinrich events. Rahman, A., [1995,eng] 50-559
- Novel Pleistocene ice flow directions in Poland and Germany. Lagerlund, E., et al. [1995,eng] 50-509
- Numerical modelling of ice sheet fluctuation in the Russian Arctic. Siegert, M.J., et al. [1995,eng] 50-1800
- Numerical reconstruction of a soft-bedded Laurentide Ice Sheet during the last glacial maximum. Clark, P.U., et al. [1996,eng] 50-6539
- Numerical simulation of the Martian polar cap breeze. Fernández, W., [1995,eng] 50-3672
- Observation of snow crystals in Antarctica and Greenland. Harada, K., [1995,eng] 50-4385
- On ancient ice-sheet and ice age in the Tibetan Plateau. Xu, D.M., et al. [1995,eng] 50-5632
- On radio detection of ultrahigh energy neutrinos in antarctic ice. Frichter, G.M., et al. [1996,eng] 50-4024
- On the concentrations of O₂, N₂, and Ar in trapped gases from ice cores. Bender, M., et al. [1995,eng] 50-633
- Organic carbon paleo-pCO₂ and marine-ice core correlations and chronology. Raymo, M.E., et al. [1996,eng] 50-3601
- Origin of present-day antarctic precipitation from surface snow deuterium excess data. Ciais, P., et al. [1995,eng] 50-636
- Origin of till sequences beneath mid-latitude ice sheets. Boulton, G.S., [1996,eng] 50-6243
- Paleoglaciology's grand unsolved problem. Grosvald, M.G., et al. [1995,eng] 50-453
- Planar forcing of floating ice sheets. Zhao, Z.G., et al. [1996,eng] 50-1108
- Pleistocene glacial lake sedimentology. Scotland, Benn, D.I., [1996,eng] 50-5827
- Pleistocene glaciation of the Outer Hebrides, Scotland. Ballantyne, C.K., et al. [1995,eng] 50-6212
- Pleistocene glaciomarine isostatic rebound, Puget Lowland, Washington. Dethier, D.P., et al. [1995,eng] 50-1832
- Polar ice stratigraphy from laser-light scattering: scattering from ice. Ram, M., et al. [1995,eng] 50-3098
- Polythermal model of the antarctic ice sheet. Hansen, I., et al. [1996,eng] 50-6434
- Position measurements during the 1959 International Glaciological Expedition in Greenland. Hofmann, W., [1958,ger] 50-4632
- Postglacial rebound from VLBI geodesy: on establishing vertical reference. Argus, D.F., [1996,eng] 50-5459
- Probability of sea level rise. Titus, J.G., et al. [1995,eng] 50-5783
- Probing ice sheets with imaging radar. Raney, R.K., [1993,eng] 50-3033
- Problematic ice sheets. Rutter, N.W., [1995,eng] 50-498
- Progress in glaciology and Quaternary glaciation research in China since 1978. Shi, Y.F., et al. [1995,eng] 50-4510
- Quaternary Fourier stratigraphy: orbital templates and Milankovitch anomalies. Berger, W.H., [1994,eng] 50-1066
- Quaternary glacial transport in the Hudson Bay region. Parent, M., et al. [1995,eng] 50-4527
- Radar investigations of firn structures and crevasses. Glover, J.M., et al. [1992,eng] 50-58
- Radar measurements of melt zones on the Greenland ice sheet. Jezek, K.C., et al. [1994,eng] 50-4804
- Radiation conditions on the Greenland ice sheet. Konzelmann, T., [1994,eng] 50-69
- Radiation exposure rate over the antarctic ice sheet. Nakajima, T., et al. [1995,eng] 50-3416
- Radiative fluxes and their impact on the energy balance of the Greenland ice sheet. Konzelmann, T., et al. [1995,eng] 50-1871
- Radiometric data and modeled snowpack conditions for Dye 2, Greenland. Mote, T.L., et al. [1996,eng] 50-4961
- Rapid isostatic rebound in southwestern Iceland at the end of the last glaciation. Ingólfsson, O., et al. [1995,eng] 50-1802
- Rapid oscillations in Vostok and GRIP ice cores. Yiou, P., et al. [1995,eng] 50-772
- Recent air pollution variations inferred from Greenland ice sheet heavy metal concentrations. Candelone, J.P., et al. [1995,eng] 50-590
- Reconstruction of the late Palaeozoic ice sheet on southwestern Gondwana. Visser, J.N.J., [1993,eng] 50-6318
- Refractive-index measurements of natural air-hydrate crystals in an antarctic ice sheet. Uchida, T., et al. [1995,eng] 50-977
- Research on the glaciation of the Larsemann Hills, East Antarctica. Li, S.K., [1995,eng] 50-3641
- Role of ice in the global water cycle. Lawford, R.G., [1993,eng] 50-5079
- Role of North Atlantic margin uplift in Cenozoic glaciation. Eyles, N., [1996,eng] 50-3386
- Satellite imagery of ice sheet drainage basins, Russian Arctic. Dowdeswell, J.A., et al. [1995,eng] 50-3327
- Satellite imagery of the onset of streaming flow of ice streams C and D, West Antarctica. Hodge, S.M., et al. [1996,eng] 50-4301
- SCAR Report No.11, Feb. 1996. Scientific Committee on Antarctic Research, [1996,eng] 50-5803
- Scientific plan for a regional research programme in the Arctic on global change. International Arctic Science Committee (IASC), Oslo, Norway, [1994,eng] 50-1508
- Seismic survey of the Ross Sea continental shelf. Shipp, S.S., et al. [1994,eng] 50-2694
- Shear margins in glaciers and ice sheets. Raymond, C., [1996,eng] 50-4894
- Simple model to estimate atmospheric concentrations of aerosol chemical species based on snow core chemistry at Summit, Greenland. Bergin, M.H., et al. [1995,eng] 50-3097
- Simulation of summer snowmelt on the Greenland ice sheet using a one-dimensional model. Rowe, C.M., et al. [1995,eng] 50-585
- Simulation of summer snowmelt on the Greenland ice sheet using a one-dimensional model. Rowe, C.M., et al. [1995,eng] 50-585
- Sliding rocks at the Racetrack, Death Valley: what makes them move. Reid, J.B., Jr., et al. [1995,eng] 50-1106
- Small ice cap instability in the presence of fluctuations. Lee, W.H., et al. [1995,eng] 50-641
- Snow accumulation and transport dynamics on the Ross Ice Shelf. Braaten, D.A., [1994,eng] 50-2219
- Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces. Zibordi, G., et al. [1996,eng] 50-5467
- Solar particle origin for polar ice core nitrate anomalies. Zeiler, E.J., et al. [1995,eng] 50-1184
- Sound reflection from ice cover. Kudriashov, V.M., [1996,eng] 50-4627
- Southwest Pacific paleoceanography and development of the East Antarctic Ice Sheet. Flower, B.P., et al. [1995,eng] 50-2609
- Spectroscopy of ice clathrate decomposition to air bubbles. Pauer, F., et al. [1996,eng] 50-3067
- Straight line measurements of an open four-sided figure. Hofmann, W., [1958,ger] 50-4633
- Stratigraphic detection of Greenland ice sheet chemical changes. Wolff, E.W., et al. [1995,eng] 50-584
- Subglacial sediment deformation and rapid changes in the Laurentide Ice Sheet. Jensen, J.W., et al. [1996,eng] 50-5915
- Summary of Project IGCP-253. Lundqvist, J., et al. [1995,eng] 50-497
- Surface ice flow and anisotropic internal radar echoes in Queen Maud Land ice sheet. Maeno, H., et al. [1995,eng] 50-2577
- Surface temperature from ERS-1 ATSR infrared thermal satellite data in polar regions. Stroeve, J., et al. [1996,eng] 50-6568
- Ten million year histories of obliquity and precession: the influence of the ice-age cycle. Jiang, X.H., et al. [1996,eng] 50-5044
- Terrestrial component of the cryosphere. Melnikov, P.A., et al. [1993,eng] 50-5483
- Thermal regime of Holocene Greenland ice sheet moraine formation. Van Tatenhove, F.G.M., et al. [1996,eng] 50-5582
- Thermomechanical response of the Greenland ice sheet to various climate scenarios. Calov, R., et al. [1996,eng] 50-4522
- Toba eruption sulfates recorded in GISP2 ice core. Zielinski, G.A., et al. [1996,eng] 50-5288
- Topographic control on the dynamics of the Svalbard-Barents Sea ice sheet. Siegert, M.J., et al. [1996,eng] 50-5306
- Topographic origin for double-ridge features in visible imagery of ice divides in Antarctica. Goodwin, A.H., et al. [1995,eng] 50-1870
- Towards a hydrological model for computerized ice-sheet simulations. Alley, R.B., [1996,eng] 50-6092
- Two-step deglaciation of the southeastern Barents Sea. Poliak, L., et al. [1995,eng] 50-561
- Ultratransparent antarctic ice as a supernova detector. Halzen, F., et al. [1996,eng] 50-6323
- Variations in Atlantic Ocean surface paleoceanography. Sarnthein, M., et al. [1995,eng] 50-3003
- Volcanic stratospheric loading derived from Greenland ice core measurements. Zielinski, G.A., [1995,eng] 50-1331
- Vostok ice core deuterium variations over the last two glacial cycles. Waelbroeck, C., et al. [1995,eng] 50-4089
- Water kept liquid by warmth from within. Bentley, C.R., [1996,eng] 50-5602
- Water vapor saturation at low altitudes around Mars aphelion: a key to Mars climate? Clancy, R.T., et al. [1996,eng] 50-5831
- Waveform model for surface and volume scattering from ice and snow. Newkirk, M.H., et al. [1996,eng] 50-3886
- Younger Dryas as viewed through the Summit Greenland ice cores. Mayewski, P.A., [1994,eng] 50-5301
- Younger Dryas margin of the Scandinavian ice sheet—an introduction. Andersen, B.G., et al. [1995,eng] 50-510

Ice snow interface

Ice solid interface

- Glaciology of the McMurdo Ice Shelf in the area of air operations. Klokov, V., et al. [1995,eng] 50-1194
- GPS recording of Hells Gate ice shelf tidal responses. Bondesan, A., et al. [1994,eng] 50-3765
- High basal melt rates in Pine Island Glacier. Jenkins, A., et al. [1994,eng] 50-2227
- Ice shelf breakup. Fahnestock, M., [1996,eng] 50-3490
- Iceberg sediment deposits in a Greenland glaciomarine setting. Syvitski, J.P.M., et al. [1996,eng] 50-5319
- Improved use of passive microwave data for sea ice detection. Heygster, G.C., et al. [1992,eng] 50-225
- Internal and basal ice changes near the grounding line derived from radio-echo sounding. Uratsuka, S., et al. [1996,eng] 50-4895
- Movement of fuel spills in the Ross Ice Shelf. Tumeo, M.A., et al. [1994,eng] 50-5216
- Movement of the ice shelf at Maudheim. Swinbank, C., [1958,eng] 50-6525
- Observations of the grounding-line area at a floating glacier terminus. Powell, R.D., et al. [1996,eng] 50-6264
- Partial disintegration of antarctic ice. Simões, J.C., [1995,por] 50-3936
- Planktonic communities of melt ponds on the McMurdo Ice Shelf, Antarctica. James, M.R., et al. [1995,eng] 50-1282
- Rapid collapse of northern Larsen Ice Shelf, Antarctica. Rott, H., et al. [1996,eng] 50-2571
- Recent retreat of ice shelves on the Antarctic Peninsula. Vaughn, D., et al. [1995,eng] 50-2155
- Record of Holocene paleoclimate changes from glacial marine sediments in Lallemand Fjord. Shevenell, A.E., [1996,eng] 50-4074
- Sediments from the southern Weddell Sea. Melles, M., et al. [1995,eng] 50-5442
- Shelf freezing and cryolithozone evolution of the Laptev Sea. Fartyshov, A.I., [1990,rus] 50-1631
- Strain net and ice flow monitoring of Hells Gate ice shelf. Bondesan, A., et al. [1995,eng] 50-4392
- Subglacial lake burst variations in Iceland. Gudmundsson, M.T., et al. [1995,eng] 50-449
- Submersible remote controlled vehicles for glacier-ocean-sediment study. Dowdeswell, J.A., et al. [1996,eng] 50-4902
- Sulphur biogeochemistry in meltwater ponds on the McMurdo Ice Shelf. De Mora, S.J., et al. [1996,eng] 50-3577
- Summer plankton beneath the McMurdo Ice Shelf at White I. Knox, G.A., et al. [1996,eng] 50-3403
- Temperature variability beneath Ronne Ice Shelf, Antarctica, from thermistor cables. Nicholls, K.W., [1996,eng] 50-2846
- Towed geophone system for use in snow-covered terrain. King, E.C., et al. [1996,eng] 50-6225
- Turbulent transfer over an antarctic ice shelf. Vinje, T.E., [1969,eng] 50-3953
- Weddell Sea glaciomarine sedimentation variations. Crawford, K., et al. [1996,eng] 50-6261
- Ice snow interface**
See [also]: Snow ice interface
- Ice solid interface**
1995 perspective on global design ice loads. Kennedy, K.P., [1995,eng] 50-2937
- Abraded rock landforms (whalebacks) developed under ice streams in mountain areas. Evans, I.S., [1996,eng] 50-6234
- Abrasion mode of a circular cylindrical concrete structure due to sea ice movement. Itoh, Y., et al. [1995,eng] 50-191
- Abrasion of various kinds of stones due to a movement of ice sheet. Hanada, M., et al. [1996,jpn] 50-5884
- Abstracts. International Symposium on Okhotsk Sea and Sea Ice, 11th, Mombetsu, Hokkaido, Japan, Feb. 25-28, 1996. [1996,eng] 50-5872
- Adhesive properties of gas hydrates and ice. Bondarev, E.A., et al. [1996,eng] 50-6496
- Adsorption and desorption of water on single crystal MgO(100): the role of surface defects. Stürniman, M.J., et al. [1996,eng] 50-5937
- Alaskan glacier basal ice deformation. Hart, J.K., [1995,eng] 50-1882
- Algorithm modeling stress gradients in grounded glaciers. Blatter, H., [1995,eng] 50-454
- Alleviating the effects of frost action on gas distribution and regulator station piping. Arnold, J.M., et al. [1985,eng] 50-4363
- Analysis of ice-formation in a stenotic tube. Suh, J.S., et al. [1996,eng] 50-6460
- Analysis of outer shell wear for ice-going ships. Shemendiuk, G.P., et al. [1996,eng] 50-4467
- Analysis of thermal stresses around a cryosurgical probe. Rabin, Y., et al. [1996,eng] 50-5814
- Analytical study of frost nucleation and growth during the crystal growth period. Şahin, A.Z., [1995,eng] 50-44
- Anisotropy in the adsorption of H₂O at low coordination sites on Pt(111). Morgenstern, M., et al. [1996,eng] 50-6199
- Antifreeze proteins and their potential use in frozen foods. Griffith, M., et al. [1995,eng] 50-5691
- Application of ice cover mechanics in design and operations of marine structures. Riska, K., et al. [1995,eng] 50-6303
- Assessment of the design load of bridge piers constructed in rivers freezing over in winter. Yamauchi, T., et al. [1994,jpn] 50-2835
- Attempt to draw a scenario of ice/propeller interaction. Tamura, K., et al. [1996,eng] 50-4475
- Augmentation or suppression of ice accumulation on a cold flat-plate in water-flow channel. Hirata, T., et al. [1996,eng] 50-6462
- Basal debris entrainment of Canadian arctic glaciers. Zdanowicz, C.M., et al. [1996,eng] 50-6247
- Basal friction of Ice Stream E, West Antarctica. MacAyeal, D.R., et al. [1995,eng] 50-448
- Basal ice facies and their formation in the western Alps. Hubbard, B., et al. [1995,eng] 50-2805
- Bedrock surface weathering on Finnish fjell summits. McCarroll, D., et al. [1996,eng] 50-5825
- Bedrock topographic effects on subglacial erosion. Rea, B.R., et al. [1996,eng] 50-6249
- Blasting surface waste with ice. Ashley, S., [1995,eng] 50-1968
- Borehole video analysis of subglacial flow and structure. Harper, J.T., et al. [1995,eng] 50-1100
- Breakthrough loads of floating ice sheets: small-scale tests with urea model ice. Sodhi, D.S., [1995,eng] 50-2939
- Calculating vertical ice loads on vertical structures at variable water levels. Nishihata, A., et al. [1996,jpn] 50-5879
- Calorimetric study of water two-dimensionally condensed on the homogeneous surface of a solid. Nagao, M., et al. [1995,eng] 50-2024
- Case for cold-base continental ice sheets—a transient thermal model. Heine, J.T., et al. [1996,eng] 50-4890
- Cavities and the effective pressure between abrading clasts and bedrock. Hindmarsh, R.C.A., [1996,eng] 50-6237
- Centrifuge modeling and numerical simulation of ice scour. Yang, Q.S., et al. [1996,eng] 50-5936
- Characteristics of basal ice at Engabreen, northern Norway. Jansson, P., et al. [1996,eng] 50-6248
- Characteristics of surface roughness associated with leading-edge ice accretion. Shin, J.W., [1996,eng] 50-4407
- Climatological significance of moraine ridges in Iceland. Krüger, J., [1995,eng] 50-2858
- Comment on paper by Reid, Jr., et al. Sharp, R.P., et al. [1996,eng] 50-6540
- Compacted snow road. 1. Properties of snow. Eriksson, R., [1959,eng] 50-3853
- Computational modelling of brittle ice fragmentation. Tuhkuri, J., [1996,eng] 50-5942
- Computer model of glaze accretion on wires. Draganovic, G., et al. [1996,eng] 50-5160
- Condensation of cometary ice analogs. Patnaik, A., et al. [1996,eng] 50-6222
- Contact force and damage evolution in a moving uniaxial ice bar. Shin, J.G., et al. [1990,eng] 50-99
- Controls on glacier surging in Svalbard. Hamilton, G.S., et al. [1996,eng] 50-4900
- Cool thermal discharges from ice melting with specified heat fluxes on the boundary. Yeh, H.M., et al. [1996,eng] 50-5521
- Definition of the loading regime on offshore structures from drifting ice covers. Bekker, A.T., et al. [1996,eng] 50-4463
- Deformation and failure of an ice cover at an ice-resistant structure. Danilenko, V.I., et al. [1995,eng] 50-2938
- Deforming bed conditions on the Dänischer Wohld Peninsula, northern Germany. Hart, J.K., et al. [1996,eng] 50-6536
- Design and analysis of a low speed drag plow for use in deep snow. Walsh, M.R., [1991,eng] 50-6198
- Design of ice booms. Foltyn, E.P., et al. [1996,eng] 50-6068
- Determination of the ice strength for calculation of the ice load. Bekker, A.T., et al. [1996,eng] 50-4462
- Development of models of freezing and convection during cryogenic pipe freezing. Keary, A.C., et al. [1996,eng] 50-6464
- Development of optimum hull forms for icebreaking cargo ships for the Northern Sea Route. Kishi, S., et al. [1996,eng] 50-4473
- Development of the original ice borehole jack. Masterson, D.M., et al. [1996,eng] 50-5051
- Dispersion-force effects in interfacial premelting of ice. Wilen, L.A., et al. [1995,eng] 50-2134
- Distinct element modelling of seabed-ice rubble interaction. Evgin, E., et al. [1993,eng] 50-5597
- Drifting ice forces on offshore piles. Afanas'ev, V.P., et al. [1990,eng] 50-98
- Ductile-to-brittle transition of compressed ice. Schulson, E.M., et al. [1995,eng] 50-2157
- Dynamic impact between a viscoelastic ice floe and a rigid structure. Morland, L.W., [1996,eng] 50-3824
- Dynamic responses of highway bridge under shock forces of icefloe. Cai, Z.R., et al. [1995,eng] 50-192
- Early stages of till genesis: an example from Fanore, County Clare, Ireland. Croot, D.G., et al. [1996,eng] 50-5828
- Earthquake response offshore structures surrounded by ice floes (Part 11). Okamoto, N., et al. [1996,jpn] 50-5882
- Effect of microclimate on road superstructures. Final report. Dysli, M., et al. [1986,fr] 50-3320
- Effects of localized deformation on melting processes in ice. Wilson, C.J.L., et al. [1996,eng] 50-5470
- Ejection velocity of ice impact fragments. Arakawa, M., et al. [1995,eng] 50-2153
- Elasticity of partially saturated frozen sand. Jacoby, M., et al. [1996,eng] 50-4323
- Electro-impulse deicing of the NASA Lewis altitude wind tunnel turning vanes. Ross, R., [1988,eng] 50-4100
- Environmental loading studies for the CSA Offshore Structures Code. Allyn, N., et al. [1995,eng] 50-1411
- Estimation of freeze drying transport coefficients. Lombrafia, J.I., et al. [1996,eng] 50-5692
- Evaluation of winter vehicle traction with different types of tires. Lu, J.J., et al. [1995,eng] 50-5709
- Evaluation procedures for deicing chemicals and improved sodium chloride. Chappelow, C.C., et al. [1993,eng] 50-875
- Experimental investigations of the behavior of ice at the contact zone. Timco, G.W., et al. [1995,eng] 50-3807
- Experimental studies on ice forces on conical structures using segmented model. Kato, K., et al. [1996,jpn] 50-5875
- Experimental study of ice load on conical structures. Ohta, M., et al. [1996,jpn] 50-5877
- Experimental study of skiing turns, pt.3. Sahashi, T., et al. [1996,eng] 50-5919
- Experimental study of tearing toughness K_{IIIc} for fresh water ice. Li, G.W., et al. [1995,eng] 50-2974
- Experimental study on abrasion of various concretes due to ice movement. Itoh, Y., et al. [1992,eng] 50-2762
- Experimental study on the melting transition at interface between ice crystal and substrate. Furukawa, Y., et al. [1994,eng] 50-3072
- Failure of columnar saline ice under biaxial compression. Schulson, E.M., et al. [1995,eng] 50-2119
- Fatigue reliability calculation for structure members of offshore fixed platform. Fang, H.C., et al. [1995,eng] 50-218
- Field experiments on snow avalanche mechanics. Schweizer, J., et al. [1995,eng] 50-1056
- Flaking tests to measure large scale strength of ice. Jones, S.J., et al. [1996,eng] 50-4430
- Flow properties of crushed ice. Singh, S.K., et al. [1995,eng] 50-2999
- Flux of debris transported by ice at three Alaskan tidewater glaciers. Hunter, L.E., et al. [1996,eng] 50-4897
- Formation of condensates on dust in interstellar clouds. Duley, W.W., et al. [1995,eng] 50-3290
- Formation of De geer moraines deposited subglacially, central Québec. Beaudry, L.M., et al. [1995,eng] 50-5035
- Formation of ice layers in a straight walled, rectangular diffuser. Neumann, S.O., et al. [1996,eng] 50-6469
- Fracture in the compression of a brittle material—columnar grained ice. Wu, H.C., et al. [1974,eng] 50-3788
- Fracture toughness of ice and firn determined from the modified ring test. Fischer, M.P., et al. [1995,eng] 50-458
- Free vibrations of a snowboard. Sakata, T., et al. [1996,eng] 50-4568
- Freeze closing of a convectively cooled parallel plate channel. Lipnicki, Z., et al. [1996,eng] 50-6461
- Freezing of a liquid jet on the inside surface of a cold pipe. Naraghi, M.N., [1994,eng] 50-691
- Freezing of a liquid jet on the inside surface of a cold pipe. Naraghi, M.N., [1994,eng] 50-691
- Frost durability of high strength concrete: effect of internal cracking on ice formation. Jacobsen, S., et al. [1996,eng] 50-6097
- Glacial erosion as a consequence of subglacial sediment deformation. Boulton, G.S., [1996,eng] 50-4891
- Glacial geology and petrography of erratics in Shackleton Range, Antarctica. Höffe, H.C., et al. [1995,eng] 50-1525
- Glacial influence on offshore Norwegian sediment properties. Sætem, J., et al. [1996,eng] 50-5320
- Glacial quarrying: a simple theoretical model. Hallet, B., [1996,eng] 50-6233
- Global chemical weathering on glacial time scales. Kump, L.R., et al. [1994,eng] 50-1239
- Groundwater flow beneath ice sheets: part I—large scale patterns. Boulton, G.S., et al. [1995,eng] 50-2128
- Gulf Canada probabilistic ice load model: operation and parametric sensitivity study. Watson, D.A., et al. [1995,eng] 50-1413
- Heat transfer during the freezing of water in a cylinder. Yim, C.S., et al. [1996,eng] 50-6466
- Heat transfer in staggered and in-line tube bank designs for ice making. Intemann, P.A., et al. [1996,eng] 50-6447
- Hydraulic resistance acting on ice floes. Kawai, K., et al. [1996,jpn] 50-5885
- Hydraulic run-away: a mechanism for thermally regulated surges of ice sheets. Fowler, A.C., et al. [1995,eng] 50-1876
- Hydrology of a polythermal glacier, Erikbreen, northern Spitsbergen. Vatne, G., et al. [1995,eng] 50-3150
- Ice accretion and persistence measuring instrument. Franklin, C.H., et al. [1991,eng] 50-4364
- Ice adhesion near the melting point. Kamata, Y., et al. [1996,eng] 50-6487
- Ice force and scour instrumentation for the White River, Vermont. Zabilansky, L.J., [1996,eng] 50-6073
- Ice fracture and spalling in ice-structure interaction. Zou, B., et al. [1996,eng] 50-5473
- Ice loads on fixed and floating structures: panel report. Croasdale, K.R., et al. [1995,eng] 50-6300
- Ice management in Lac St. Pierre. Carter, D., et al. [1995,eng] 50-4043
- Ice model test basin opens in Helsinki. [1989,eng] 50-5649
- Ice resistance of three bow forms for the NSR cargo ship. Izumiya, K., et al. [1996,eng] 50-4471
- Ice shedding from cables. Druetz, J., et al. [1995,eng] 50-1144
- Ice tank tests on pressure ridge formation. Lensu, M., et al. [1995,eng] 50-4582
- Ice-breaking device frees structures. [1989,eng] 50-5650
- Ice-pavement bond disbonding—fundamental study. Blackburn, R.R., et al. [1993,eng] 50-876
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995,eng] 50-195
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995,eng] 50-2942

Ice solid interface

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- Ice-structure interaction research and arctic development. Kennedy, K.P., et al. [1995.eng] 50-6304
- Ice-structure interaction under slippage boundary conditions. Matskevich, D.G., [1995.eng] 50-2936
- Ice/metal interfaces: fracture energy and fractography. Wei, Y., et al. [1996.eng] 50-5243
- Iceberg-structure interaction probabilities for design. Fuglem, M., et al. [1996.eng] 50-5052
- Icing of wind turbine rotor blades during operation. Seifert, H., [1992.eng] 50-3631
- Identification of ice classes and rules for ships intended to navigate in the Arctic. Karavanov, S.B., et al. [1996.eng] 50-4464
- Impact ice load acting on flat plate due to wave action. Hanada, M., et al. [1996.jp] 50-5880
- Impact of subglacial groundwater flow on moraine formation. Boulton, G.S., et al. [1995.eng] 50-2129
- Indentation pressure in ice/vertical structure interaction. Takeuchi, T., et al. [1995.eng] 50-2738
- Influence of cavitation on icebreaker propellers. Walker, D., et al. [1995.eng] 50-200
- Influence of glaciation on the basin temperature regime. Johansen, H., et al. [1996.eng] 50-5328
- Influence of ice conditions on NSR transit sailing. Vefsnmo, S., et al. [1996.eng] 50-4459
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1995.eng] 50-2954
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1996.eng] 50-5161
- Innovations on a quartz crystal microbalance frost-point hygrometer. Kaluzhny, M., et al. [1995.eng] 50-414
- Instability trends of inertially coupled galloping, part 2: periodic variations. Yu, P., et al. [1995.eng] 50-1054
- Internal and basal ice changes near the grounding line derived from radio-echo sounding. Uratsuka, S., et al. [1996.eng] 50-4895
- Interpretation of field measurements for ice engineering applications. Gold, L.W., [1996.eng] 50-5050
- Interpretation of in situ borehole ice strength measurement tests. Masterson, D.M., [1996.eng] 50-5049
- Interpretation of subglacially-deformed materials. Benn, D.I., et al. [1996.eng] 50-5583
- Investigation of ice-resistant coatings used to protect ice-breaker hull. Babsev, V.A., et al. [1995.eng] 50-201
- Investigation of sea ice shear properties. Zanegin, V.G., et al. [1990.eng] 50-101
- Investigation of the stress development during cryogenic pipe freezing. Keary, A.C., et al. [1996.eng] 50-6438
- Is erosion by deforming subglacial sediments significant? (Toward till continuity). Cuffey, K., et al. [1996.eng] 50-6235
- Laboratory study of sediment deformation: stress heterogeneity and grain-size evolution. Iverson, N.R., et al. [1996.eng] 50-6256
- Laboratory tests for ice interaction with steel booms. Timco, G.W., et al. [1996.eng] 50-5812
- Landform and sediment associations of dry-based glaciers in arid polar environments. Humphreys, K.A., et al. [1996.eng] 50-6577
- Large strain finite-element analysis of snow. Meschke, G., et al. [1996.eng] 50-5923
- Large-scale loading and collapse of natural sea ice and natural-artificial ice laminates. Lichtenberger, G.J., [1991.eng] 50-1718
- Laurentide ice sheet oscillations as cause of Atlantic Ocean Heinrich events. MacAyeal, D.R., [1993.eng] 50-2869
- Light flash and ionization from hypervelocity impacts on ice. Burchell, M.J., et al. [1996.eng] 50-6530
- Links between proglacial stream sediments and glacier motion. Willis, J.C., et al. [1996.eng] 50-6091
- Lobal interactions and rheologic superposition in subglacial till near Bradville, Ontario, Canada. Hicock, S.R., [1992.eng] 50-2550
- Local pressure characteristics by indenter with segmented local ice pressure panels. Kamesaki, K., et al. [1996.jp] 50-5876
- Mass dependence of energy loss in collisions of icy spheres: an experimental study. Dilley, J., et al. [1996.eng] 50-5196
- Measurement of ice accretion and persistence at unmanned sites. Final report. Hill, G.E., [1990.eng] 50-4365
- Mechanics of marine screw propeller ice cutting processes. Veitch, B., [1995.eng] 50-4154
- Mechanism of the abrasion of concrete structures due to the movement of ice sheets. Ito, Y., et al. [1995.eng] 50-2653
- Method to calculate pack ice driving forces. Evgin, E., et al. [1995.eng] 50-1283
- Method to prevent weld zone corrosion in offshore structures. DeGer, D.D., et al. [1991.eng] 50-1726
- Mobile offshore platform and a method for its assembly and dismantling. Ioan, V.S., [1992.rus] 50-1948
- Model for spraying and three-dimensional icing on a stern trawler. Chung, K.K., et al. [1995.eng] 50-2955
- Model of protecting the geological environment in the permafrost region. Kagan, A.A., [1995.eng] 50-343
- Model of shoreward movement of grounded lake ice. Sasaki, T., et al. [1995.eng] 50-3329
- Modeling of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996.eng] 50-6715
- Modelling of continuous crushing of ice in front of offshore structures. Brown, T.G., et al. [1995.eng] 50-575
- Modelling of frost formation in rotary heat exchangers. Bilo-deau, S., et al. [1996.eng] 50-6477
- Modelling of icing on structures from fresh and light salt water. Frolov, A.D., et al. [1996.eng] 50-6458
- Models of ice-structure contact for engineering applications. Riska, K., [1995.eng] 50-3808
- Molecular dynamics simulation of vapor deposited amorphous ice. Essmann, U., et al. [1995.eng] 50-419
- Moraine formation from subglacial frozen sedimentation. Krüger, J., [1996.eng] 50-5830
- Multiaxial creep of saline ice. Golubov, A.I., et al. [1990.eng] 50-102
- Non-contact loads on propellers in ice-blocked flows. Luzzik, L., et al. [1995.eng] 50-2941
- Northern Sea Route: future & perspective. Northern Sea Route: future & perspective. Proceedings of INSROP Symposium, Tokyo, Oct. 1-6, 1995, [1996.eng] 50-4419
- Northumberland Strait bridge: analysis techniques and results. Ghali, A., et al. [1996.eng] 50-5046
- NRC centre for ice loads on Beaufort Sea structures. Timco, G.W., [1996.eng] 50-3238
- Nucleation of microcracks in ice cubes compressed equally on all boundaries. Weiss, J., et al. [1996.eng] 50-5867
- Numerical reconstruction of a soft-bedded Laurentide Ice Sheet during the last glacial maximum. Clark, P.U., et al. [1996.eng] 50-6539
- Observations of pressure effects on the creep of ice single crystals. Cole, D.M., [1996.eng] 50-4901
- Observations of the grounding-line area at a floating glacier terminus. Powell, R.D., et al. [1996.eng] 50-6264
- Offshore structure and installation method. Waddell, J.W., [1995.eng] 50-3479
- On dynamics of ice-structure interaction. Kajaste-Rudniski, J., [1995.eng] 50-4169
- On the generation of internal waves beneath sea ice by a moving load. Duffy, D.G., [1996.eng] 50-3825
- On the indentation of a blunt ice wedge. Selvadurai, A.P.S., et al. [1995.eng] 50-180
- Optimal design of bow plating for ships operating in ice. Brown, P.W., [1993.eng] 50-378
- Origin of till sequences beneath mid-latitude ice sheets. Boulton, G.S., [1996.eng] 50-6243
- Particle model for quasibrittle fracture and application to sea ice. Jirasek, M., et al. [1995.eng] 50-495
- Performance of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996.eng] 50-3408
- Permafrost and thermal interfaces from Norman Wells pipeline ditchwall logs. Nixon, J.F., et al. [1991.eng] 50-1746
- Permafrost influence on glacier sediment deformation. Euzemüller, B., et al. [1996.eng] 50-6240
- Phase transitions of water films adsorbed on pyrogenic silica. Bogdan, A., et al. [1996.eng] 50-2021
- Pleistocene glacial lake sedimentology. Scotland. Benn, D.I., [1996.eng] 50-5827
- Pleistocene glacier thicknesses inferred from electron microscopy of till microtextures. Mahaney, W.C., [1995.eng] 50-3365
- Possible consequences of glacially induced groundwater flow. Forsberg, C.F., [1996.eng] 50-5325
- Predicting abrasion of bridge piers by ice. Hara, F., et al. [1995.eng] 50-2655
- Preliminary results from fatigue tests on in situ sea ice beams. Haskell, T.G., et al. [1996.eng] 50-5469
- Preliminary results of ice-aluminum interfacial fracture toughness testing. Whelan, A.E., et al. [1995.eng] 50-2959
- Premelting of ice in porous silica glass. Ishizaki, T., et al. [1996.eng] 50-6759
- Pressure melting and ice skating. Colbeck, S.C., [1995.eng] 50-408
- Problem of choice of the design parameters for ice thickness. Polomoshnov, A.M., et al. [1996.eng] 50-5901
- Proceedings of the First European Offshore Mechanics Symposium, 1990. European Offshore Mechanics Symposium, First, Trondheim, Norway, Aug. 20-22, 1990, [1990.eng] 50-93
- Proceedings. Vol.2. International Offshore and Polar Engineering Conference, 5th, Hague, Netherlands, June 11-16, 1995, [1995.eng] 50-175
- Proceedings. Volume IV. Arctic/polar technology. International Conference on Offshore Mechanics and Arctic Engineering (OMAE), 14th, Copenhagen, Denmark, June 18-22, 1995, [1995.eng] 50-2935
- Proceedings. Colloquium on Frost Heave Testing and Research, Nottingham, England, May 18, 1977, [1977.eng] 50-2311
- Proceedings. International Symposium on Glacial Erosion and Sedimentation, Reykjavik, Iceland, Aug. 20-25, 1995, [1996.eng] 50-6232
- Proceedings. International Symposium on Thermal Engineering and Sciences for Cold Regions, 5th, Ottawa, May 19-22, 1996, [1996.eng] 50-6428
- Production of high-strength concrete for the Hibernia offshore concrete platform. Hoff, G.C., et al. [1994.eng] 50-2764
- Project III.11.1: New concepts in removing ice. Jerusalem, A.V., [1996.eng] 50-4447
- Propagation of sound above a finite layer of snow. Nicolas, J., et al. [1985.eng] 50-3699
- Recent advances in ice interaction and force estimation processes for vertical structures. Arunachalam, A.V.M., [1995.eng] 50-197
- Recent drumlins, flutes and lineations at Vestari-Hagafellsjökull, Iceland. Hart, J.K., [1995.eng] 50-1880
- Refractive index and density of vapor-deposited ice. Berland, B.S., et al. [1995.eng] 50-3096
- Reinforcement percentage effects on bending strength of soil-ice mixtures. Nixon, W.A., et al. [1995.eng] 50-358
- Relation between sea ice loads and arctic offshore structures. Blanchet, D., et al. [1991.eng] 50-1721
- Relevance of glacial bed debris to glacial mechanics. Gow, A.J., et al. [1996.eng] 50-6251
- Role of uncompressed alcohol monolayers as ice nucleators. Majewski, J., et al. [1995.eng] 50-3040
- Russian-German cooperation: Laptev Sea system. Kassens, H., ed. et al. [1995.eng] 50-2059
- Salient features of the design of large arctic ships with a restricted draft. Tsoi, L.G., [1996.eng] 50-4431
- Sea ice data report. Kovacs, A., et al. [1970.eng] 50-3854
- Sea ice formation in Cook Inlet Alaska: a high energy environment. Nelson, W.G., [1995.eng] 50-2944
- Sea ice scouring on the inner shelf of the southeastern Canadian Beaufort Sea. Héquette, A., et al. [1995.eng] 50-1830
- Sediment reworking by ice gouging in the western Laptev Sea. Lindemann, F., [1995.eng] 50-2096
- Sedimentation during needle ice growth in soil. Branson, J., et al. [1996.eng] 50-3646
- Series of model tests in ice of ice-going cargo ships for future traffic in the Northern Sea Route. Ishikawa, S., et al. [1996.eng] 50-4472
- Shear margins in glaciers and ice sheets. Raymond, C., [1996.eng] 50-4894
- Simulation of ice floe movement around an ocean structure. Rheem, C.K., et al. [1996.eng] 50-4433
- Simulation of ship-ice collision dynamics. Phillips, L.D., [1994.eng] 50-5670
- Simulation of the ice-structure interaction under the parabolic strength criterion for ice. Matskevich, D.G., [1995.eng] 50-190
- Simulation of wet-snow accretion by axial growth on a transmission line conductor. Poots, G., et al. [1995.eng] 50-2349
- Singularities in simulation of ice sheet-solid impact regime. Darr, D.G., et al. [1995.eng] 50-2163
- Sliding of glacial till over bedrock. Hindmarsh, R.C.A., [1996.eng] 50-6238
- Sliding rocks at the Racetrack, Death Valley: what makes them move. Reid, J.B., Jr., et al. [1995.eng] 50-1106
- Smart skis and other adaptive structures. Ashley, S., [1995.eng] 50-4618
- Solidification and melting of water around a vertical heat transfer plate. Hirasawa, Y., et al. [1996.eng] 50-6470
- Solidification of water in a buried pipe. Negiz, A., et al. [1995.eng] 50-1967
- Spectroscopy of deuterium oxide ice adsorbed onto a hydrocarbon. Engquist, I., et al. [1995.eng] 50-1855
- Spectroscopy of deuterium oxide ice desorption and substrate wettability. Engquist, I., et al. [1995.eng] 50-1570
- Standardization of corrosion wear of shell plating for ice ships operations. Kulesh, V.A., et al. [1996.eng] 50-4466
- Statistics of ice-structure interaction. Kajaste-Rudniski, J., [1995.eng] 50-199
- Strength of composite ice-resisting walls subjected to combined loads. Stephens, M.J., et al. [1990.eng] 50-95
- Stresses in sea ice in the neighboring force interaction zone. Nikitin, V.A., et al. [1995.eng] 50-5522
- Structural failure of the *Titanic*. Garzke, W.H., Jr., et al. [1994.eng] 50-5177
- Structural ice control: review of existing methods. Tuthill, A.M., [1995.eng] 50-393
- Study of dynamic effects on icebreaking in 2-dimension: computations and components of icebreaking load. Yamaguchi, H., et al. [1996.eng] 50-4469
- Study of dynamic effects on icebreaking in 2-dimension: experiment. Usami, A., et al. [1996.eng] 50-4468
- Subglacial chemical erosion in a Swiss mountain glacier. Brown, G.H., et al. [1996.eng] 50-6236
- Suspended sediment weathering in alpine glacial meltwater. Brown, G.H., et al. [1996.eng] 50-6088
- Test methods for abrasion of concrete structures by ice. Hara, F., et al. [1995.eng] 50-2654
- Testing of ships in ice. Ryvlin, A.I.A., et al. [1980.rus] 50-3388
- Thermal stability of the freezing front in porous media such as soils. Bronfenbrener, L., et al. [1996.eng] 50-6479
- Thermomechanical response of the Greenland ice sheet to various climate scenarios. Calov, R., et al. [1996.eng] 50-4522
- Thickness and fracture toughness of freshwater ice. Chang, C., et al. [1995.eng] 50-2975
- Tholeiitic-alkalic transition at subglacial volcanoes, Tuya region, British Columbia, Canada. Moore, J.G., et al. [1995.eng] 50-3012
- Topographic control on the dynamics of the Svalbard-Barents Sea ice sheet. Siegert, M.J., et al. [1996.eng] 50-5306
- Towards a hydrological model for computerized ice-sheet simulations. Alley, R.B., [1996.eng] 50-6092
- Traction and hardening tests of mobile missile launcher over frozen ground. Chamberlain, E.J., et al. [1988.eng] 50-2524
- Triaxial experiments on iceberg and glacier ice. Gagnon, R.E., et al. [1995.eng] 50-1874
- Triaxial tests on crushed ice. Singh, S.K., et al. [1996.eng] 50-5468
- Ultraviolet photodesorption from water ice. Westley, M.S., et al. [1995.eng] 50-3024
- Uniaxial constant compressive stress creep tests on sea ice. Sinha, N.K., et al. [1995.eng] 50-3000

Ice spectroscopy

- Variation in ice strength at its interaction with ice and structures. Krasnov, I.U.N., [1990,eng] 50-97
- Variation of local pressures during ice-structure interaction. Johnston, M., [1994,eng] 50-376
- Velocity dependence of ice failure load in a 2-dimensional ship model. Adachi, M., et al. [1996,eng] 50-5878
- Water pressure and basal sliding on Storglaciären, northern Sweden. Jansson, P., [1995,eng] 50-446
- Ice spectroscopy**
- Accelerator mass spectrometry: new applications. Sydal, H.A., [1995,eng] 50-2309
- Adsorption and ionization of HCl on an ice surface. Banham, S.F., et al. [1996,eng] 50-5940
- Adsorption and photochemistry of dinitrogen tetroxide on low temperature ice layers. Rieley, H., et al. [1996,eng] 50-4295
- Amorphous ice molecular transitions under electron bombardment. Kimmel, G.A., et al. [1995,eng] 50-156
- Anisotropy in the adsorption of H₂O at low coordination sites on Pt(111). Morgenstern, M., et al. [1996,eng] 50-6199
- Condensation of cometary ice analogs. Patnaik, A., et al. [1996,eng] 50-6222
- Elastic constants of ice VI by Brillouin spectroscopy. Tulk, C.A., et al. [1996,eng] 50-5506
- Elastic properties of dense H₂O-ices studied by Brillouin spectroscopy. Shimizu, H., [1996,eng] 50-6725
- Electron-stimulated dissociation of amorphous ice. Kimmel, G.A., et al. [1995,eng] 50-2160
- Feasibility of infrared sensing of Martian cloud and surface ices. Johnson, B.R., et al. [1996,eng] 50-3865
- Fluorescence spectra and lifetime of 2-naphthol in H₂O- and D₂O-ice(I_h) single crystal. Ping, Q., et al. [1995,eng] 50-2161
- Formation of amino acid precursors in cometary ice environments by cosmic radiation. Kobayashi, K., et al. [1995,eng] 50-6452
- High-pressure elastic properties of the VI and VII phase of ice in dense H₂O and D₂O. Shimizu, H., et al. [1996,eng] 50-4355
- Ice/supercooled water linear correlation length from Raman spectroscopy. Walrafen, G.E., et al. [1995,eng] 50-152
- Infrared spectroscopy of organics of planetological interest at low temperatures. Khanna, R.K., [1995,eng] 50-656
- Interaction of peroxydic acid with solid H₂O ice. Li, Z.J., et al. [1996,eng] 50-4350
- Ion irradiation of astrophysical ices. Strazzulla, G., et al. [1995,eng] 50-3022
- Ionisation and solvation of stratospherically relevant molecules on ice films. Banham, S.F., et al. [1995,eng] 50-5959
- Isotopic exchange during glass transition of amorphous ice. Fisher, M., et al. [1995,eng] 50-150
- Laboratory comparisons of organic materials to interstellar dust and the Murchison meteorite. Pendleton, Y.J., [1995,eng] 50-3025
- Laboratory infrared spectra (2.3-23 μm) of SO₂ phases: applications to Io surface analysis. Nash, D.B., et al. [1995,eng] 50-1463
- Laser ablation of organic molecules from frozen matrices. Belov, M.E., et al. [1995,eng] 50-3720
- Mean amplitude of the OH...O hydrogen bond in ice and liquid water. Iijima, T., [1996,eng] 50-5022
- Monitoring clathrate hydrate formation on ice surfaces. Pietrass, T., et al. [1995,eng] 50-2127
- Neutral and ionized PAHs: contribution to the interstellar extinction. Salama, F., et al. [1995,eng] 50-3021
- Neutron scattering of high pressure ice polymorphs. Li, J.C., et al. [1996,eng] 50-6344
- Observation of Fano interference in high-pressure ice VII. Aoki, K., et al. [1996,eng] 50-3337
- Organic compounds produced by photolysis of simulated cometary ices. Bernstein, M.P., et al. [1995,eng] 50-2724
- Phase transitions of water films adsorbed on pyrogenic silica. Bogdan, A., et al. [1996,eng] 50-2021
- Photochemistry of chlorine dioxide in ice. Pursell, C.J., et al. [1995,eng] 50-154
- Production and chemical analysis of cometary ice tholins. McDonald, G.D., et al. [1996,eng] 50-5833
- Radiation chemistry of ices of planetological interest at low temperature. Strazzulla, G., [1995,eng] 50-654
- Reactivity of imidazoles in pulse and γ-irradiated liquid and frozen systems. Kalecińska, E., et al. [1996,eng] 50-3527
- Recent molecular dynamics simulation studies on ice: vibrational spectra of ice. Itoh, H., [1996,jpn] 50-4938
- Refractive index of ice in the 1.4-7.8-μm spectral range. Gosse, S., et al. [1995,eng] 50-3358
- Refractive index of vapor-deposited ice. Brown, D.E., et al. [1996,eng] 50-5300
- Scavenging of electrons and radicals in frozen chloride-alcohol glasses. Kalecińska, J., [1996,eng] 50-3526
- Simulated structure of ice nanocrystal surface. Buch, V., et al. [1996,eng] 50-4183
- Simulation of extraterrestrial ice radiation absorption properties. Schutte, W.A., et al. [1995,eng] 50-3023
- Spectra of nitrogen component of ices in cosmic dust. Whittier, D.C.B., et al. [1996,eng] 50-6210
- Spectrometry of frozen organic surface ionization. Betts, R.L., et al. [1995,eng] 50-657
- Spectrometry of nucleic acid frozen solutions. Boriak, O.A., et al. [1996,eng] 50-4046
- Spectropolarimetry of the 3 micron ice feature toward the Becklin-Neugebauer object. Hough, J.H., et al. [1996,eng] 50-5504

- Spectroscopic damage to hydrated specimens in vitreous ice. Leapman, R.D., et al. [1995,eng] 50-1648
- Spectroscopy of deuterium oxide ice adsorbed onto a hydrocarbon. Engquist, I., et al. [1995,eng] 50-1855
- Spectroscopy of deuterium oxide ice desorption and substrate wettability. Engquist, I., et al. [1995,eng] 50-1570
- Spectroscopy of freezing mechanisms of sulfuric acid aerosols. Bertram, A.K., et al. [1996,eng] 50-4143
- Spectroscopy of ice clathrate decomposition to air bubbles. Pauer, F., et al. [1996,eng] 50-3067
- Spectroscopy of ices in quiescent cosmic dust clouds. Chiar, J.E., et al. [1995,eng] 50-2779
- Spectroscopy of photolysis in frozen solution systems. Yamauchi, S., et al. [1993,eng] 50-1467
- Structure of ice Ih from analysis of single-crystal neutron diffuse scattering. Nield, V.M., et al. [1995,eng] 50-2696
- Thickness determination of a water film on dye-doped ice by fluorescence spectroscopy. Strausky, H., et al. [1996,eng] 50-3967
- Transition from normal to fast sound in liquid water. Sette, F., et al. [1996,eng] 50-5710
- Ultraviolet photodesorption from water ice. Westley, M.S., et al. [1995,eng] 50-3024
- Vapor deposited water ice: astrophysical implications. Sack, N.J., [1992,eng] 50-697
- Ice stakes**
- See [also]: Markers
- Ice storms**
- Alberta Hail Project Data Archive available on the World Wide Web. Kochubajda, B., et al. [1996,eng] 50-5201
- Analyses of conductor ice accretion and meteorological characteristics. Luo, N., et al. [1996,eng] 50-5376
- Anemometer for transmission line maintenance in heavy icing areas. Ozawa, A., et al. [1996,eng] 50-5395
- Aviation meteorology for visual and instrument flight rules: aircraft icing. McCool, K.B., [1992,eng] 50-3706
- Cable galloping model for thin ice accretions. McComber, P., et al. [1996,eng] 50-5381
- Calibration of anemometers for use in icing conditions. Makkonen, L., et al. [1996,eng] 50-5348
- Classification of hailstorm systems in north China and the characteristics of hailstorm cells. Yang, P.C., et al. [1983,eng] 50-4095
- Climate of freezing rain over the province of Québec in Canada: a preliminary analysis. Laflamme, J.N., et al. [1996,eng] 50-5333
- Combined wind and ice loads from historical extreme wind and ice data. Krishnasamy, S., et al. [1996,eng] 50-5350
- Combined wind and ice loads on telecommunication towers in Quebec, Phase I. Elfashny, K., et al. [1996,eng] 50-5353
- Comparison of glaze and in-cloud icing events on a test line. Druetz, J., et al. [1995,eng] 50-2951
- Design of an anemometer for extreme conditions. Krynski, L., et al. [1996,eng] 50-4028
- Efficacy of ice detector hoarfrost observations. Ryerson, C.C., et al. [1996,eng] 50-4033
- Evaluation of the proposed ASOS freezing rain sensor. Ramsay, A.C., [1996,eng] 50-4034
- Extreme warm frontal icing on 25 February 1994 causes an aircraft accident near Uttoxeter. Pike, W.S., [1995,eng] 50-2796
- February 1994 ice storm in the southeastern U.S. Lott, J.N., et al. [1996,eng] 50-5372
- Focus 2000: wind, ice, and fog. Annual Mount Washington Observatory Symposium. 4th. North Conway, NH, June 23-24, 1995. [1996,eng] 50-4027
- Freezing-rain reporting capability of the Automated Surface Observing System (ASOS). Ramsay, A.C., [1996,eng] 50-5334
- Galloping of iced electrical transmission lines. Popplewell, N., et al. [1996,eng] 50-5377
- Ground and aircraft weather observations and in-flight aircraft icing. Bernstein, B.C., et al. [1996,eng] 50-5373
- Hail in southwestern France. I. Hailfall characteristics and hailstorm environment. Dessens, J., [1986,eng] 50-4911
- Hail prevention in southwestern France. Dessens, J., [1986,eng] 50-4912
- Hailstorm in Hong Kong. Lee, B.Y., et al. [1996,eng] 50-3962
- Hailstorms. Bluestein, H.B., [1996,eng] 50-4988
- How to measure the wind accurately in icing conditions. Kenyon, P.R., et al. [1996,eng] 50-4030
- Ice accretion in freezing rain. Jones, K.F., [1996,eng] 50-2245
- Ice accretion weight on overhead transmission line cables. Savadjiev, K., et al. [1996,eng] 50-5351
- Ice and snow damage to high voltage overhead lines in Romania. Goia, L.M., et al. [1996,eng] 50-5366
- Ice storm data base and ice severity map. Shan, L., et al. [1996,eng] 50-5330
- Ice storm management on an electrical utility system. Hall, J.W., [1996,eng] 50-5367
- Icing rate meter estimation of transmission line icing. McComber, P., et al. [1996,eng] 50-4031
- Measurements of ice and snow loads on the Tyee Lake 138 kV line. Peabody, A.B., [1996,eng] 50-5346
- Measuring wind speed in freezing rain. Claffey, K.J., et al. [1996,eng] 50-4029
- Mesoscale and microscale characteristics of a CASP II severe ice pellet storm. Hanesiak, J.M., [1994,eng] 50-4170
- Mesoscale and microscale structure of a severe ice pellet storm. Hanesiak, J.M., et al. [1995,eng] 50-1526

- Methods to estimate ice accumulations on surface structures. Schaub, W.R., Jr., [1996,eng] 50-5360
- Modeling power line icing in freezing precipitation. Makkonen, L., [1996,eng] 50-5362
- National climatic reference base for exceptional wet snow and rime ice episodes. Raison, T., et al. [1996,eng] 50-5331
- National winter storms operations plan. [1995,eng] 50-1073
- Potential icing forecast compared with NOAA-14 images. Fuchs, W., et al. [1996,eng] 50-5374
- Power loss in inclement weather. Volk, L., [1992,eng] 50-3796
- Proceedings. IWAIS '96. International Workshop on Atmospheric Icing of Structures, 7th. Chicoutimi, Quebec, June 3-7, 1996. [1996,eng] 50-5329
- Program to improve aircraft icing forecasts. Sand, W.R., et al. [1991,eng] 50-3265
- Proposed icing severity index based upon meteorology. Politovich, M.K., et al. [1991,eng] 50-3263
- Simple model for freezing rain ice loads. Jones, K.F., [1996,eng] 50-5399
- Study and analysis of the factors having influence on ice coating of electric wires. Wang, S.L., [1996,eng] 50-5394
- Supercooled liquid water in Colorado Front Range winter storms. Rasmussen, R.M., et al. [1991,eng] 50-3264
- Urban hailstorms: a view from Alberta. Charlton, R.B., et al. [1995,eng] 50-3960
- Validation of ice accretion models for freezing precipitation using field data. Haldar, A., et al. [1996,eng] 50-5361
- Video monitoring of atmospheric icing. Wareing, J.B., et al. [1995,eng] 50-204
- Wet snow icing combined with strong wind—field inspections and field measurements. Eliasson, A.J., et al. [1996,eng] 50-5352
- Ice strength**
- Adhesive properties of gas hydrates and ice. Bondarev, E.A., et al. [1996,eng] 50-6496
- Borehole penetration and expansion devices for ice testing. Ladanyi, B., [1996,eng] 50-5048
- Crack nucleation in columnar ice—recent developments. Gupta, V., et al. [1995,eng] 50-2958
- Creep of ice crystals and the measurement of strain: some technical considerations. Barrette, P.D., et al. [1995,eng] 50-2962
- Development of the original ice borehole jack. Masterson, D.M., et al. [1996,eng] 50-5051
- Ductile-to-brittle transition of compressed ice. Schulson, E.M., et al. [1995,eng] 50-2157
- Elastic fracture mechanics and fracture propagation in rock and ice. Fischer, M.P., [1994,eng] 50-696
- Failure of columnar saline ice under biaxial compression. Schulson, E.M., et al. [1995,eng] 50-2119
- Fracture in the compression of a brittle material—columnar grained ice. Wu, H.C., et al. [1974,eng] 50-3788
- Fracture toughness of freshwater ice—part I: experimental technique and results. Weber, L.J., et al. [1996,eng] 50-5158
- Fracture toughness of freshwater ice—part II: analysis and micrography. Weber, L.J., et al. [1996,eng] 50-5159
- Fracture toughness of ice and firn determined from the modified ring test. Fischer, M.P., et al. [1995,eng] 50-458
- Geochemical studies of layered ground ice and frozen rocks (from work on Ney-To Lake). Dubikov, G.I., [1983,rus] 50-312
- Ice adhesion near the melting point. Kamata, Y., et al. [1996,eng] 50-6487
- Ice and construction. Makkonen, L., ed. [1994,eng] 50-399
- Ice shell roof for use in cold areas. Kokawa, T., [1984,eng] 50-3166
- Ice-pavement bond disbonding—fundamental study. Blackburn, R.R., et al. [1993,eng] 50-876
- Interpretation of field measurements for ice engineering applications. Gold, L.W., [1996,eng] 50-5050
- Interpretation of in situ borehole ice strength measurement tests. Masterson, D.M., [1996,eng] 50-5049
- Mechanics of ice strength and breakup when erecting ice structures in the Arctic. Krasnov, I.U.N., [1989,rus] 50-2254
- Mechanism for consolidating ice and saline frozen ground with polyvinyl alcohol admixtures. Cheverev, V.G., et al. [1993,rus] 50-127
- Microstructure and mechanical properties of some small impact ice accretions. Hammond, D.W., [1996,eng] 50-5339
- Model ice properties. Zufelt, J.E., et al. [1996,eng] 50-5673
- Multiaxial creep of saline ice. Golubov, A.I., et al. [1990,eng] 50-102
- Orientation dependence of elastic constants for ice. Parameswaran, V.R., [1987,eng] 50-4223
- Pegasus: a glacial-ice runway for wheeled flight operations at McMurdo Station. Blaisdell, G.L., et al. [1995,eng] 50-6501
- Preliminary results from fatigue tests on in situ sea ice beams. Haskell, T.G., et al. [1996,eng] 50-5469
- Preliminary results of ice-aluminum interfacial fracture toughness testing. Whelan, A.E., et al. [1995,eng] 50-2959
- Proceedings. Workshop on Future Directions in Snow and Ice Research. Gallatin Gateway, MT, Oct. 3-4, 1995. [1995,eng] 50-4623
- Reinforcement percentage effects on bending strength of soil-ice mixtures. Nixon, W.A., et al. [1995,eng] 50-358
- Rheology of water ices V and VI. Durham, W.B., et al. [1996,eng] 50-3450
- Strength and viscosity of ice. Zaretshki, I.U.K., et al. [1996,rus] 50-6825
- Triaxial experiments on iceberg and glacier ice. Gagnon, R.E., et al. [1995,eng] 50-1874

Ice structure

- Triaxial tests on crushed ice. Singh, S.K., et al. [1996,eng] 50-5468
- Unified viscoplastic model for the inelastic behavior of ice. Lee, J.H., et al. [1996,eng] 50-6176
- Variation in ice strength at its interaction with ice and structures. Krasnov, I.U.N., [1990,eng] 50-97
- Wing crack models of the brittle compressive failure of ice. Nixon, W.A., [1996,eng] 50-3826
- See [also]: Ice cover strength
- Ice structure**
- Borehole video analysis of subglacial flow and structure. Harper, J.T., et al. [1995,eng] 50-1100
- Comparison of arctic, antarctic, and Himalayan ice. Pathak, R.C., [1989,eng] 50-3401
- Compressive failure of columnar saline ice under multiaxial loading. Schulson, E.M., [1995,eng] 50-6282
- Constitutive equations and fracture models for sea ice. Rodin, G.J., et al. [1995,eng] 50-6292
- Contribution to the structural study of high latitude cold ice. Vallon, M., [1963,fre] 50-5741
- Cooperative polarisation in ice I_h and the unusual strength of the hydrogen bond. Heggie, M.I., et al. [1996,eng] 50-3958
- Crack nucleation mechanisms in columnar ice—recent developments. Gupta, V., et al. [1995,eng] 50-6281
- Elastic properties of dense H_2O -ices studied by Brillouin spectroscopy. Shimizu, H., [1996,eng] 50-6725
- Evidence for ferroelectric ordering of ice Ih. Jackson, S.M., et al. [1995,eng] 50-1573
- Field and laboratory experiments and modeling of the constitutive behavior of sea ice. Cole, D.M., [1995,eng] 50-6280
- Grain structure of first year sea ice in a Greenland fjord. Johnston, M., et al. [1995,eng] 50-2965
- High-density amorphous ice, the frost on interstellar grains. Jenniskens, P., et al. [1995,eng] 50-2780
- Ice textures in an ice core from the Guliya Ice Cap. Huang, M.H., et al. [1995,eng] 50-4514
- Ice-core analysis for sea-ice development in Ross, Amundsen and Bellingshausen seas, 1993 and 1994 winters. Jeffries, M.O., et al. [1995,eng] 50-6503
- Ice/supercooled water linear correlation length from Raman spectroscopy. Walrafen, G.E., et al. [1995,eng] 50-152
- Inland ice and nunataks, Queen Maud Land. Swinbank, C., [1959,eng] 50-6202
- Instruments for coring, structure and composition analysis and monitoring sea ice. Zagorodnov, V.S., et al. [1995,eng] 50-6317
- Internal and basal ice changes near the grounding line derived from radio-echo sounding. Uratuka, S., et al. [1996,eng] 50-4895
- Internal layer folding patterns from radar studies of ice streams B and C. Jacobel, R.W., et al. [1994,eng] 50-1892
- Mean amplitude of the OH...O hydrogen bond in ice and liquid water. Iijima, T., [1996,eng] 50-5022
- Microwave emission from density-stratified antarctic firn at 6 cm wavelength. West, R.D., et al. [1996,eng] 50-4892
- Microwave emission from polar firn. West, R.D., [1994,eng] 50-662
- New device for the measurement of air content in polar ice. Lipenkov, V.I.A., et al. [1995,eng] 50-462
- New flow law of ice-sheet ice. Azuma, N., [1995,jpn] 50-991
- New high-pressure phase of ice. Benoit, M., et al. [1996,eng] 50-6096
- New results from studies of layered ground ice in Yamal. Dubikov, G.I., et al. [1985,rus] 50-242
- On the sedimentological character of alpine basal ice facies. Hubbard, B., et al. [1996,eng] 50-6259
- On the structure of pressured sea ice. Kovacs, A., [1970,eng] 50-3835
- Overview of recent program on mechanical properties of sea ice. Cole, D.M., et al. [1995,eng] 50-1842
- Physically based constitutive modeling of ice. Connor, J.J., et al. [1995,eng] 50-6288
- Proceedings. Sea Ice Mechanics and Arctic Modeling Workshop, Anchorage, AK, Apr. 25-28, 1995, [1995,eng] 50-6271
- Scale effects on the fracture and constitutive behavior of sea ice. Dempsey, J.P., et al. [1995,eng] 50-6279
- Sea Ice Mechanics Initiative (SIMI) summary plan, FY94-95, [1995,eng] 50-6294
- SIMI (Sea Ice Mechanics Initiative) panel on the 1cm-1m scale. Schulson, E.M., et al. [1995,eng] 50-6299
- Simulation of sea ice behaviour—a parametric study. Evgen, E., et al. [1995,eng] 50-2952
- Spectroscopy of deuterium oxide ice adsorbed onto a hydrocarbon. Engquist, I., et al. [1995,eng] 50-1855
- Structure and flexural strength of sea ice and consolidation of pressure ridges. Shapiro, L.H., et al. [1995,eng] 50-6283
- Structure of amphiphile monolayer adsorbed on ice Ih. Bell, K.P., et al. [1996,eng] 50-4023
- Structure of ordinary ice I_h . Part II: Defects in ice. Volume 2: Dislocations and plane defects. Petrenko, V.F., et al. [1994,eng] 50-390
- Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savelev, B.A., [1963,rus] 50-3832
- Studies of clean and sediment-laden ice in the Laptev Sea. Eicken, H., et al. [1995,eng] 50-2071
- Texture of glacier and river ice on Mount Xixia Bangma. Huang, M.H., [1982,chi] 50-6599
- Upward flushing of sea water through first year sea ice. Hudier, E.J.J., et al. [1995,eng] 50-4210

Ice sublimation

- Adsorption model of polar stratospheric cloud physics. Henson, B.F., et al. [1996,eng] 50-5460
- Alcohols in interstellar ice mantles. Charnley, S.B., et al. [1995,eng] 50-5101
- Atmospheric ice ablation processes on Mt. Equinox, Vermont, U.S.A. Ryerson, C.C., et al. [1996,eng] 50-5375
- Changes of model mixtures during freezing and drying. Shalaev, E.I.U., et al. [1996,eng] 50-4531
- Comments on paper by P.S. Anderson. Makkonen, L., et al. [1996,eng] 50-6587
- Condensation of cometary ice analogs. Patnaik, A., et al. [1996,eng] 50-6222
- Consistent treatment of the evaporation of rain and snow for use in large-scale models. Gregory, D., [1995,eng] 50-353
- Cosmoglaciology: evolution of ice in interstellar space and the early solar system. Kouchi, A., et al. [1995,eng] 50-1030
- Electrification associated with the evaporation of ice. Latham, J., et al. [1965,eng] 50-3950
- Enrichment of CO over N_2 by their trapping in amorphous ice and implications to comet P/Halley. Notesco, G., et al. [1996,eng] 50-5834
- Erosion on Titan: past and present. Lorenz, R.D., et al. [1996,eng] 50-5832
- Estimation of freeze drying transport coefficients. Lombrana, J.L., et al. [1996,eng] 50-5692
- Formation of organic molecules in astronomical ices. Schutte, W.A., [1995,eng] 50-653
- Freeze concentration by layer crystallization. Fiesland, O., [1995,eng] 50-5943
- Ice shedding from cables. Druetz, J., et al. [1995,eng] 50-1144
- Ionisation and solvation of stratospherically relevant molecules on ice films. Banham, S.F., et al. [1995,eng] 50-5959
- Laboratory studies of astrophysical ices. Dissly, R.W., [1994,eng] 50-680
- Numerical models of heat transfer during food freezing. Tocci, A.M., et al. [1995,eng] 50-596
- Ottawa firm makes wastewater 'white as snow'. Kneisel, S., [1996,eng] 50-6744
- Parameterization of cloud ice crystal conversion processes, pt.1. Harrington, J.Y., et al. [1995,eng] 50-3260
- Photochemistry of Triton's atmosphere and ionosphere. Krasnopolsky, V.A., et al. [1995,eng] 50-2121
- Production and chemical analysis of cometary ice tholins. McDonald, G.D., et al. [1996,eng] 50-5833
- Radioactive heating of porous comet nuclei. Prialnik, D., et al. [1995,eng] 50-1464
- Relationship of tropospheric dry layers to freezing precipitation type. Smith, G., [1995,eng] 50-6684
- Satellite regolith frozen ground collapse as solar system geological paradigm. Moore, J.M., et al. [1996,eng] 50-6588
- Scavenging of gases during growth of ice crystals. Santachiara, G., et al. [1995,eng] 50-2470
- Seasonal nitrogen cycles on Pluto. Hansen, C.J., et al. [1996,eng] 50-4347
- Seasonal nitrogen cycles on Triton and Pluto. Hansen, C.J., [1994,eng] 50-682
- Spectrometry of nucleic acid frozen solutions. Boriak, O.A., et al. [1996,eng] 50-4046
- Sputtering of ices in the outer solar system. Johnson, R.E., [1996,eng] 50-5296
- State of SO_2 on Io's surface. Kerton, C.R., et al. [1996,eng] 50-4257
- Sublimation of dry ice pellets used for cloud seeding. Kochtubajda, B., et al. [1985,eng] 50-4593
- Theory of atmospheric ice crystal growth and sublimation. Nelson, J.T., et al. [1996,eng] 50-4351
- Thermal conductivity of model ice comet surfaces. Ibadinov, Kh.I., et al. [1987,eng] 50-1770
- Thermodynamic analysis of the influence of electric fields on frost formation. Ma, H.B., et al. [1995,eng] 50-2156
- Ultraviolet photodesorption from water ice. Westley, M.S., et al. [1995,eng] 50-3024
- Vapor deposited water ice: astrophysical implications. Sack, N.J., [1992,eng] 50-697
- Ice surface**
- Automated DIMM telescope for Antarctica. Dopita, M.A., et al. [1996,eng] 50-5270
- Comment on "Surface layers on ice" by C.A. Knight. Baker, M.B., et al. [1996,eng] 50-6059
- Comment on paper by Avila et al. Jayaratne, R., et al. [1996,eng] 50-5454
- Effect of sea ice frost flowers on infrared surface observations. Martin, S., et al. [1996,eng] 50-5858
- Ice sheet surface features between 80 and 90S, along 90W. Yoshikawa, K., [1995,eng] 50-4386
- Ice thickness on Lewis Cliff Ice Tongue, 1993-1994. Echelmeyer, K., et al. [1994,eng] 50-1887
- Ice velocities near a relic flow feature on Siple Dome. Jacobel, R.W., et al. [1994,eng] 50-1891
- Impulse radar studies of interface roughness. Jezek, K.C., et al. [1992,eng] 50-60
- Laboratory study of microwave backscattering from saline ice. Porco, R.L., [1994,eng] 50-683
- Meteorites as surface exposure markers of blue icefield stability. Benoit, P.H., et al. [1994,eng] 50-1886
- On the modelling of ice cover fracture. Slepian, L.I., [1990,eng] 50-94
- Simulated structure of ice nanocrystal surface. Buch, V., et al. [1996,eng] 50-4183

- Source of errors in surface area measurements of glacier mass balance. Jacobsen, F.M., et al. [1995,eng] 50-1865
- Spectra of mixed ices on Io. Dahmani, R., et al. [1996,eng] 50-6071
- Strain net and ice flow monitoring of Hells Gate ice shelf. Bondesan, A., et al. [1995,eng] 50-4392
- Surface ice flow and anisotropic internal radar echoes in Queen Maud Land ice sheet. Maeno, H., et al. [1995,eng] 50-2577
- Surface layers on ice. Knight, C.A., [1996,eng] 50-6058
- Vapor deposited water ice: astrophysical implications. Sack, N.J., [1992,eng] 50-697
- See [also]: Glacier surfaces
- Ice surveys**
- 1993 biennial report. University of Washington. College of Ocean & Fisheries Science. Applied Physics Laboratory. [1993,eng] 50-5203
- 1994/95 winter ice in the Baltic Sea between the Ems and the Oder rivers. Strübing, K., [1995,ger] 50-4535
- Abstracts. International Symposium on Okhotsk Sea and Sea Ice, 11th, Mombetsu, Hokkaido, Japan, Feb. 25-28, 1996, [1996,eng] 50-5872
- Airborne imaging microwave radiometer—part I: radiometric analysis. Collins, M.J., et al. [1996,eng] 50-4763
- Algorithm to enhance sea ice concentration estimates from radiometric brightness temperatures. St. Germain, K.M., et al. [1992,eng] 50-3564
- Altimeter retracking algorithm accuracy for Greenland ice sheet growth. Davis, C.H., [1995,eng] 50-980
- Analysis of coastal ice cover using ERS-1 SAR data. Leshkevich, G., et al. [1995,eng] 50-1822
- Annual report 1995. National Snow and Ice Data Center. World Data Center-A for Glaciology. [1995,eng] 50-4604
- Arctic Pilot Project integrated route analysis. Chapter 2. Physical aspects of the route areas [1981,eng] 50-3558
- Arctic sea ice extent and thickness. Wadhams, P., [1995,eng] 50-5235
- Automated approach to the sea-ice motion estimation. Mocetezuma Flores, M., et al. [1994,eng] 50-5175
- Automatic ice motion retrieval from ERS-1 SAR images using the optical flow method. Sun, Y., [1996,eng] 50-5824
- AUV operations in the Arctic. Bellingham, J.G., et al. [1995,eng] 50-6307
- Barents Sea ice concentration from SSM/I data. Smith, D.M., [1996,eng] 50-6695
- Biennial report 1993-1994. Alaska. University. Geophysical Institute, [1995,eng] 50-2450
- Build-up, decay and role of the sea-ice cover of the Liefdefjord, NW Spitsbergen. King, L., et al. [1994,ger] 50-1596
- Charting movement of sea ice by satellite. Carsey, F., [1995,eng] 50-715
- Comparison of ice-sheet satellite altimeter retracking algorithms. Davis, C.H., [1996,eng] 50-2703
- Comparison of second-order classifiers for SAR sea ice discrimination. Barber, D.G., et al. [1993,eng] 50-1446
- Comparisons between the Okhotsk Sea and the Baltic Sea ice. Shirasawa, K., et al. [1996,eng] 50-5904
- Cryospheric observing systems and data management. Barry, R.G., [1994,eng] 50-3415
- Demonstration of operational sea-ice monitoring in the Baltic Sea with ERS-1 SAR. Herland, E.A., et al. [1995,eng] 50-1820
- Demonstration project to supply near real time sea ice information. Blackford, C., et al. [1994,eng] 50-1516
- Design of an Airborne Imaging Microwave Radiometer. Paul, J.L., et al. [1992,eng] 50-3570
- Detection of radar targets in sea-ice clutter. Lin, C.P., et al. [1996,eng] 50-5895
- Development of an ice information system (IIS) to be implemented at the NERSC. Jacob, A., [1995,eng] 50-2742
- Dielectric properties and microwave remote sensing of snow and ice. Matsuoka, T., et al. [1995,jpn] 50-3511
- Diffusive coefficients of arctic sea-ice motion estimate through SAR. Kakuta, S., et al. [1996,eng] 50-5893
- Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al. [1996,eng] 50-4766
- Distribution of seasonal net production of sea ice on the Arctic Ocean. Kakuta, S., et al. [1996,eng] 50-5894
- Drift ice off Hokkaido. [1992,jpn] 50-486
- Estimating sea ice thickness from impulse radar sounding time of flight data. Kovacs, A., et al. [1992,eng] 50-61
- Expert system for automated interpretation of ground penetrating radar data. Lee, S., et al. [1992,eng] 50-62
- Field observations and measurements of ice jams. Petryk, S., et al. [1995,eng] 50-791
- Fuzzy classification of earth terrain covers using complex polarimetric SAR data. Du, L., et al. [1996,eng] 50-4018
- Great Lakes ice cover studies. U.S. National Oceanic and Atmospheric Administration. Great Lakes Environmental Research Laboratory (GLERL), Ann Arbor, MI. [1995,eng] 50-2479
- Greenland ice sheet thickness changes measured by laser altimetry. Krabill, W., et al. [1995,eng] 50-751
- Greenland Sea ice variations recorded by spaceborne photography. Mitchelson-Jacob, E.G., [1996,eng] 50-4292
- Ground penetrating radar. Pilon, J.A., ed. [1992,eng] 50-54
- Heat flux from leads in pack ice from a Landsat TM image. Lindsay, R.W., [1994,eng] 50-5179
- Ice conditions along the North-East Passage in view of ship trafficability studies. Riska, K., [1995,eng] 50-198
- Ice conditions in the Greenland waters. 1957. [1967,eng] 50-1231

Ice temperature

- Ice conditions in the Greenland waters, 1958.[1967.eng] 50-1232
- Ice conditions in the Greenland waters, 1959.[1968.eng] 50-1233
- Ice conditions in the Greenland waters, 1960.[1964.eng] 50-1234
- Ice conditions in the Greenland waters, 1961.[1965.eng] 50-1235
- Ice conditions in the Greenland waters, 1962.[1968.eng] 50-1124
- Ice conditions in the Greenland waters, 1963.[1970.eng] 50-1125
- Ice conditions in the Greenland waters, 1964.[1971.eng] 50-1236
- Ice conditions in the Greenland waters, 1966.[1981.eng] 50-1257
- Ice conditions in the Greenland waters, 1968.[1983.eng] 50-1258
- Ice conditions in the Greenland waters, 1974.[1985.eng] 50-1259
- Ice conditions in the Greenland waters, 1975.[1982.eng] 50-1260
- Ice conditions in the Greenland waters, 1976.[1982.eng] 50-1126
- Ice conditions in the Greenland waters, 1977.[1983.eng] 50-1127
- Ice conditions in the Greenland waters, 1978.[1985.eng] 50-1128
- Ice conditions in the Greenland waters, 1979.[1985.eng] 50-1129
- Ice conditions in Zalew Szczecinski (Stettiner Haff) during the winter 1994/95. Schmelzer, N., et al. [1995.eng] 50-4536
- Ice conditions off Greenland. Fabricius, J.S., et al. [1959.dan] 50-406
- Ice dynamics in the south-western Laptev Sea as derived from ERS-1 SAR images. Kolatschek, J., et al. [1995.eng] 50-2063
- Ice studies on the northern Sakhalin offshore. Truskov, P.A., et al. [1995.eng] 50-6316
- Ice thickness data, winter 1992-1993.[1995.eng] 50-985
- Ice thickness data, winter 1993-1994. Final issue.[1996.eng] 50-3711
- Impulse radar studies of interface roughness. Jezek, K.C., et al. [1992.eng] 50-60
- Information states in sea ice imagery. Kerman, B.R., [1995.eng] 50-6311
- Interannual variability of the ice cover in the Chukchi and Beaufort Seas. Chouinard, L.E., et al. [1995.eng] 50-187
- Intercomparisons of sea ice concentration from SSM/I and AVHRR data of the Ross Sea. Zibordi, G., et al. [1995.eng] 50-938
- Laboratory study of microwave backscattering from saline ice. Porco, R.L., [1994.eng] 50-683
- Lake ice and its remote sensing monitoring in the Tibetan Plateau. Chen, X.Z., et al. [1995.chi] 50-5634
- MANICE. Manual of standard procedures for observing and reporting ice conditions. 8th edition. Canada. Atmospheric Environment Service. Ice Services Branch, [1994.eng] 50-409
- Measurements of the underside topography of sea ice by moored subsea sonar. Melling, H., et al. [1995.eng] 50-160
- Method of estimating sea ice flexural strength based on hydrometeorological data. Gavrilov, V.P., et al. [1995.eng] 50-214
- Modelling interannual sea ice variability in the Gulf of St. Lawrence. DeTracey, B., [1993.eng] 50-375
- Monitoring and modelling the ice conditions offshore Greenland. Valur, H.H., et al. [1995.eng] 50-2971
- Monitoring lead dynamics with ERS-1 synthetic aperture radar imagery. Wackerman, C.C., et al. [1994.eng] 50-1512
- Monitoring winter hydrologic characteristics of lakes by microwave radiometry. Bordonkii, G.S., et al. [1995.eng] 50-1402
- Multisensor observations of winter sea ice in the Greenland Sea. Toudal, L., [1994.eng] 50-1514
- North Water polynya studies in Baffin Bay, Apr. 1978-Dec. 1979. Müller, F., et al. [1980.eng] 50-3974
- North-East Water polynya: satellite observations summer 1992 and 1993. Gudmandsen, P., et al. [1995.eng] 50-1814
- NRC centre for ice loads on Beaufort Sea structures. Timco, G.W., [1996.eng] 50-3238
- Observations of sea ice and icebergs in the western Barents Sea during the winter of 1987. Løset, S., et al. [1995.eng] 50-213
- Ocean Drilling Program in Fram Strait and prediction of ice-free conditions. Wadhams, P., et al. [1995.eng] 50-215
- Oceanic remote sensing and sea ice monitoring. Johannessen, J.A., ed. et al. [1994.eng] 50-1509
- Oceanic satellites in the Global Ocean Observing System. Sherman, J.W., III, [1993.eng] 50-4801
- Operational use of ERS-1 SAR images in the Canadian ice monitoring programme. Shokr, M.E., et al. [1996.eng] 50-4017
- Polar sea ice off West Greenland—a review. Fabricius, J.S., et al. [1995.eng] 50-2972
- Proceedings. Vol.2. International Offshore and Polar Engineering Conference, 5th, Hague, Netherlands, June 11-16, 1995. [1995.eng] 50-175
- Propagation of sound from a moving airborne source in an ice-covered ocean. Grudskii, S.M., et al. [1996.eng] 50-4626
- Radar design for geophysical sounding. Oswald, G.K.A., [1992.eng] 50-64

- Regional and floe-floe deformation. Overland, J.E., et al. [1995.eng] 50-6286
- Remote sensing of sea ice by passive microwave radiometer. Enomoto, H., [1996.jpn] 50-3506
- Report of the International Ice Patrol in the North Atlantic, 1994 season. U.S. Coast Guard, [1994.eng] 50-52
- Research of the ice climatology of the Baltic Sea. Leppäranta, M., et al. [1996.eng] 50-5905
- Retrieval of thin ice thickness from multifrequency polarimetric SAR data. Kwok, R., et al. [1995.eng] 50-349
- SAR observations of arctic freeze-up compared to SSM/I during ARCTIC91. Petersson, M.I., et al. [1996.eng] 50-6694
- Satellite mapping and monitoring of sea ice. Smith, D.M., et al. [1994.eng] 50-5197
- Satellite mapping of algal blooms and sea ice in the North Sea and IJsselmeer. Roozkrans, H., [1994.eng] 50-1517
- Satellite observation of lake ice as a climate indicator. Wynne, R.H., et al. [1993.eng] 50-2862
- Satellite radar monitoring of ice drift in the Laptev Sea. Aleksandrov, V.I.U., et al. [1995.eng] 50-2062
- Satellite radar observations of Beaufort Sea autumn freeze-up. Winebrenner, D.P., et al. [1996.eng] 50-6218
- Satellite radar survey of Japan Sea ice processes. Martin, S., et al. [1995.eng] 50-1810
- Satellite remote sensing of the Arctic Ocean and adjacent seas. Comiso, J.C., [1995.eng] 50-1160
- Satellite remote sensing tools for sea ice engineering. Cavané, A., et al. [1995.eng] 50-184
- Satellite SAR identification of lake water resources on the North Slope. Jeffries, M.O., et al. [1996.eng] 50-6177
- Sea ice and sediment export from the Laptev Sea fluvial lead during 1991/92 winter season. Dethleff, D., [1995.eng] 50-2073
- Sea ice concentrations derived from satellite microwave imagery. Lomax, A.S., et al. [1995.eng] 50-1244
- Sea ice concentrations derived from SMMR and SSM/I. Bjørge, E., et al. [1994.eng] 50-1513
- Sea ice detection at Showa Station from MOS-1 mosaics. Ishida, K., et al. [1996.jpn] 50-5892
- Sea ice in the global climate system: requirements for an ocean observing system. Allison, I., et al. [1995.eng] 50-4248
- Sea ice landing strip for Boeing-727 in northern Greenland. Sinha, N.K., [1995.eng] 50-2973
- Sea ice off the Icelandic coasts, October 1987-September 1988.[1988.ice] 50-3556
- Sea ice off the Icelandic coasts, October 1988-September 1989.[1990.ice] 50-3557
- Sea ice radar backscatter and the fusion of active and passive microwave data. Beaven, S.G., [1995.eng] 50-4171
- Seasonal variability of sea ice sizes and thickness on the northern Sakhalin shelf. Polomoshnov, A.M., et al. [1995.eng] 50-189
- Shipboard observations of ice conditions off the Okhotsk Sea coast. Shimoda, H., et al. [1996.jpn] 50-5898
- Short term variations of sea ice cover. Chouinard, L.E., et al. [1995.eng] 50-186
- Snow and ice research in Japan during the past 50 years. Nakamura, T., [1995.jpn] 50-606
- Space data from scientific projects. Harries, J.E., [1991.eng] 50-4094
- Spaceborne radiometry of Barents Sea ice cover variations. Bjørge, E., et al. [1994.eng] 50-5077
- Spatial and temporal variability in southern ocean sea ice coverage. Stammerjohn, S.E., [1993.eng] 50-5520
- SSM/I time series observations of Great Lakes ice and snow. Pilant, D., [1995.eng] 50-3107
- Steering Group for the Global Digital Sea-ice Data Bank. Fourth session. Final report. Commission for Marine Meteorology, [1994.eng] 50-6075
- Studies of clean and sediment-laden ice in the Laptev Sea. Eicken, H., et al. [1995.eng] 50-2071
- Studies on the method of image processing and analysis of lake ice and snow. Li, W.J., et al. [1995.chi] 50-3995
- Study of antarctic pack ice. Stevens, J.E., [1995.eng] 50-5154
- Study of the morphology of a discontinuous section of a first year arctic pressure ridge. Bowen, R.G., et al. [1996.eng] 50-3829
- Surface-based studies of microwave arctic sea ice signatures during end of summer and early autumn. Darovskikh, A.N., [1995.eng] 50-2065
- Thickness of summer Arctic Ocean multiyear ice. Eicken, H., et al. [1995.eng] 50-2112
- Validation and evaluation of a workstation for monitoring sea ice. McIntyre, N., et al. [1994.eng] 50-1515
- Validation of backscatter models for level and deformed sea-ice in ERS-1 SAR images. Carlström, A., et al. [1995.eng] 50-1811
- Wind events compared with polynya area estimates derived from SSM/I data. Markus, T., et al. [1993.eng] 50-5596
- See [also]: Ice reporting
- Ice temperature**
- Artificially compacted snow and temperature regime in a glacier active layer. Nazarov, V.D., [1992.rus] 50-149
- Case for cold-base continental ice sheets—a transient thermal model. Heine, J.T., et al. [1996.eng] 50-4890
- Challenging an ice-core paleothermometer. MacAyeal, D.R., [1995.eng] 50-628
- Creep of saline ice at low stresses and high temperatures. Richter-Menge, J.A., et al. [1995.eng] 50-179
- Field measurements of ice loads: thermal loads on hydro-electric structures. Comfort, G., et al. [1994.eng] 50-853

Ice vapor interface

- Flaking tests to measure large scale strength of ice. Jones, S.J., et al. [1996.eng] 50-4430
- Giant facets at ice grain boundary grooves. Wilen, W.A., et al. [1995.eng] 50-973
- Glacial cirque formation in northern Scandinavia. Richardson, C., et al. [1996.eng] 50-6246
- Glaciology and glacial geomorphology of fjords in Spitsbergen. King, L., et al. [1994.ger] 50-1586
- Greenland paleotemperatures derived from ice core isotope profiles. Johnsen, S.J., et al. [1995.eng] 50-2027
- Ice adhesion near the melting point. Kamata, Y., et al. [1996.eng] 50-6487
- Ice and hydrate freezing points of aqueous ethylene oxide solutions. Glew, D.N., et al. [1995.eng] 50-45
- Influence of temperature on microdischarges between ice particles. Coquillat, S., et al. [1996.eng] 50-5385
- Large Arctic temperature change in the Holocene. Cuffey, K.M., et al. [1995.eng] 50-629
- Large scale motion and temperature distributions in land based ice shields—a review. Hutter, K., et al. [1996.eng] 50-6430
- Measuring firm thickness and accumulation temperature. Craig, H., et al. [1996.eng] 50-3640
- Microwave emission from polar firm. West, R.D., [1994.eng] 50-662
- Moisture movement and freezing pressures. Hoekstra, P., [1968.eng] 50-1976
- Reconstruction of the paleotemperature of the air according to ground ice isotopes. Koniakhin, M.A., [1990.rus] 50-1632
- Satellite remote sensing of the Arctic Ocean and adjacent seas. Comiso, J.C., [1995.eng] 50-1160
- Sea ice concentrations derived from SMMR and SSM/I. Bjørge, E., et al. [1994.eng] 50-1513
- Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savel'ev, B.A., [1963.rus] 50-3832
- Summer temperatures from an ice core at Law Dome. Han, J.K., [1989.chi] 50-6771
- Temperature conditions of the glaciers on the northern slope of Mount Xixia Bangma. Huang, M.H., [1982.chi] 50-6598
- Temperature distribution in Collins Ice Cap, King George I. Han, J.K., et al. [1995.eng] 50-3615
- Thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. Björnsson, H., et al. [1996.eng] 50-4888
- Thermomechanical response of the Greenland ice sheet to various climate scenarios. Calov, R., et al. [1996.eng] 50-4522
- Upward flushing of sea water through first year sea ice. Hudier, E.J.J., et al. [1995.eng] 50-4210
- Ice thermal properties**
- Actual conditions and problems in air conditioning of buildings by ice thermal storage. Ibamoto, T., [1988.jpn] 50-2275
- Atmospheric electricity and charge transfer from temperature gradients in ice. Latham, J., [1967.eng] 50-5786
- Cosmoglaciology: evolution of ice in interstellar space and the early solar system. Kouchi, A., et al. [1995.eng] 50-1030
- Current status and prospects of air conditioning systems using ice thermal storage. Takakusa, M., [1988.jpn] 50-2276
- Forced-convection melting characteristics of liquid ice in a horizontal rectangular duct. Yamada, M., et al. [1996.eng] 50-6465
- Formation of ice layers in a straight walled, rectangular diffuser. Neumann, S.O., et al. [1996.eng] 50-6469
- Heat transfer during a water jet impinging on the underside of ice. Bhansali, A.P., [1994.eng] 50-678
- Heat transfer during the freezing of water in a cylinder. Yim, C.S., et al. [1996.eng] 50-6466
- Heat transfer in staggered and in-line tube bank designs for ice making. Intemmann, P.A., et al. [1996.eng] 50-6447
- Ice thermal storage-type air conditioning systems as seen in the patents. Igarashi, S., et al. [1995.jpn] 50-1176
- Large scale motion and temperature distributions in land based ice shields—a review. Hutter, K., et al. [1996.eng] 50-6430
- Low and high temperature materials storage. Inada, Y., [1993.eng] 50-103
- Performance of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996.eng] 50-3408
- Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savel'ev, B.A., [1963.rus] 50-3832
- Ice thickness**
- See [also]: Glacier thickness; Ice cover thickness
- Ice tongues**
- See [also]: Glacier tongues
- Ice transported sediments**
- See [also]: Ice rafting
- Ice tunnels**
- Characteristics of basal ice at Engabreen, northern Norway. Jansson, P., et al. [1996.eng] 50-6248
- Ice underside**
- See [also]: Ice bottom surface
- Ice vapor interface**
- 1-D model of the formation and evolution of polar stratospheric clouds. Panegrossi, G., et al. [1996.eng] 50-3812
- Adsorption and ionization of HCl on an ice surface. Banham, S.F., et al. [1996.eng] 50-5940
- Adsorption and photochemistry of dinitrogen tetroxide on low temperature ice layers. Rieley, H., et al. [1996.eng] 50-4295
- Adsorption model of polar stratospheric cloud physics. Henson, B.F., et al. [1996.eng] 50-5460
- Adsorption of methane on natural snow. Chaix, L., et al. [1996.eng] 50-5963
- Aerosol uptake by model polar stratospheric cloud surfaces. Graham, J.D., et al. [1996.eng] 50-4144

Ice veins

- Airborne hydrogen peroxide measurements in supercooled clouds. Snider, J.R., et al. [1995,eng] 50-2114
- Aircraft-generated aerosols and visible contrails. Kärcher, B., [1996,eng] 50-6544
- Alteration of volatile inventories by polar clathrate formation on Mars. Musselwhite, D., et al. [1995,eng] 50-2133
- Analytical study of frost nucleation and growth during the crystal growth period. Şahin, A.Z., [1995,eng] 50-44
- Bubble formation experiments in snow densification. Ishii, S., et al. [1995,eng] 50-3248
- Comment on "Surface layers on ice" by C.A. Knight. Baker, M.B., et al. [1996,eng] 50-6059
- Comparison between arctic and antarctic polar stratospheric clouds. Dye, J.E., et al. [1996,eng] 50-6542
- Consistent treatment of the evaporation of rain and snow for use in large-scale models. Gregory, D., [1995,eng] 50-353
- Cosmoclology: evolution of ice in interstellar space and the early solar system. Kouchi, A., et al. [1995,eng] 50-1030
- Denitrification mechanisms in the polar stratospheres. Toon, O.B., et al. [1990,eng] 50-6001
- Distribution of hydrogen peroxide in surface snow over antarctic ice sheet. Kamiyama, K., et al. [1996,eng] 50-3452
- Effect of sea ice frost flowers on infrared surface observations. Martin, S., et al. [1996,eng] 50-5858
- Electric field effects on growing ice surface force curves. Slaughterbeck, C.R., et al. [1996,eng] 50-5939
- Energetics of framework formation in cubic clathrate hydrates. Kosiakov, V.I., et al. [1995,eng] 50-3677
- Explicit cloud physics parameterization for operational numerical weather prediction. Schultz, P., [1995,eng] 50-1529
- Formation of polar stratospheric clouds on preactivated background aerosols. Zhang, R.Y., et al. [1996,eng] 50-6510
- Geometry and energy calculations of the HS-III polyhedral gas hydrate framework. Kosiakov, V.I., et al. [1995,eng] 50-3676
- Heterogeneous interactions of aerosol radicals on simulated cloud ice surface. Cooper, P.L., et al. [1996,eng] 50-4142
- Heterogeneous interactions of stratospheric aerosols. Abbatt, J.P.D., [1996,eng] 50-6512
- Ice cloud microphysics in a general circulation model, pt.1. Fowler, L.D., et al. [1996,eng] 50-5015
- Ice cloud microphysics in a general circulation model, pt.3. Fowler, L.D., et al. [1996,eng] 50-5017
- Influence of the growth mechanisms of snow particles on their chemical composition. Takahashi, T., et al. [1996,eng] 50-5610
- Interaction of peroxyacid with solid H₂O ice. Li, Z.J., et al. [1996,eng] 50-4350
- Ionisation and solvation of stratospherically relevant molecules on ice films. Banham, S.F., et al. [1995,eng] 50-5959
- Laboratory studies of astrophysical ices. Dissly, R.W., [1994,eng] 50-680
- Modelling of frost formation in rotary heat exchangers. Bilo-deau, S., et al. [1996,eng] 50-6477
- Monitoring clathrate hydrate formation on ice surfaces. Pietrass, T., et al. [1995,eng] 50-2127
- Natural ice nucleus measurement under high supersaturation. Mizuno, H., et al. [1995,eng] 50-3719
- Parameterization of cloud ice crystal conversion processes, pt.1. Harrington, J.Y., et al. [1995,eng] 50-3260
- Photochemistry of chlorine dioxide in ice. Pursell, C.J., et al. [1995,eng] 50-154
- Rapid glaciation of slightly supercooled cumulus clouds. Mason, B.J., [1996,eng] 50-5010
- Reaction probabilities of ClONO₂ and N₂O₅ on polar stratospheric cloud materials. Hanson, D.R., et al. [1991,eng] 50-3649
- Reactivity of ClONO₂ on H₂¹⁸O ice and organic liquids. Hanson, D.R., [1995,eng] 50-1416
- Refractive index of vapor-deposited ice. Brown, D.E., et al. [1996,eng] 50-5300
- Relationship between atmospheric composition and snow composition for HCl and HNO₃. Dominé, F., et al. [1995,eng] 50-2392
- Relationship of tropospheric dry layers to freezing precipitation type. Smith, G., [1995,eng] 50-6684
- Relative humidity influences on cirrus cloud ice crystal formation. Heymsfield, A.J., et al. [1995,eng] 50-3259
- Role of droplet composition in polar stratospheric cloud freezing. Mellinger, S.K., et al. [1995,eng] 50-4874
- Seasonal nitrogen cycles on Triton and Pluto. Hansen, C.J., [1994,eng] 50-682
- Simulated structure of ice nanocrystal surface. Buch, V., et al. [1996,eng] 50-4183
- Simulation of rain production in convective clouds, pt.1. Reisin, T., et al. [1996,eng] 50-4369
- SO₂ distributions on Io. Sartoretti, P., et al. [1996,eng] 50-6529
- Solvation of hydrogen halides on the surface of ice. Robertson, S.H., et al. [1995,eng] 50-6069
- Sorption of nonpolar organic vapors by ice and snow. Hoff, J.T., et al. [1995,eng] 50-644
- Spectroscopy of ices in quiescent cosmic dust clouds. Chiar, J.E., et al. [1995,eng] 50-2779
- Sublimation of dry ice pellets used for cloud seeding. Kochubajda, B., et al. [1985,eng] 50-4593
- Sulfuric acid monohydrate: formation and heterogeneous chemistry in the stratosphere. Zhang, R.Y., et al. [1995,eng] 50-635
- Surface layers on ice. Knight, C.A., [1996,eng] 50-6058

- The presence of metastable HNO₃/H₂O solid phases in the stratosphere inferred from ER 2 data. Tabazadeh, A., et al. [1996,eng] 50-5254
- Theory of atmospheric ice crystal growth and sublimation. Nelson, J.T., et al. [1996,eng] 50-4351
- Thermal conductivity of model ice comet surfaces. Ibadinov, Kh.I., et al. [1987,eng] 50-1770
- Thermodynamic analysis of the influence of electric fields on frost formation. Ma, H.B., et al. [1995,eng] 50-2156
- Thermodynamic stability of hydrates for ethane, ethylene, and carbon dioxide. Kvamme, B., et al. [1996,eng] 50-5019
- Time-dependent wave-packet studies on the sticking of HCl to an ice surface. Wang, L.C., et al. [1996,eng] 50-4767
- Tropospheric dehydration by subvisible cirrus clouds. Jensen, E.J., et al. [1996,eng] 50-5287
- Unsuitability of meteoritic and other nuclei for polar stratospheric cloud freezing. Biermann, U.M., et al. [1996,eng] 50-6513
- Uptake of chlorine dioxide by model PSCs under stratospheric conditions. Brown, L.A., et al. [1996,eng] 50-4164
- Uptake of HBr on ice at polar atmospheric conditions. Chu, L.T., et al. [1995,eng] 50-3090
- Vapor deposited water ice: astrophysical implications. Sack, N.J., [1992,eng] 50-697
- Water vapor saturation at low altitudes around Mars aphelion: a key to Mars climate? Clancy, R.T., et al. [1996,eng] 50-5831
- Ice veins**
- Cryogenic phenomena in the lithosphere. Gavrilov, A.V., et al. [1996,rus] 50-6352
- Cryogenic structure of surface deposits in Central Yakutia. Konchenko, L.A., [1996,rus] 50-6378
- Cryolithological structure of Quaternary deposits on Wrangel Island. Kotov, A.N., et al. [1996,rus] 50-6379
- Effect of introduced disturbances on the development of thermoclastic processes. Glavatskiy, V.V., et al. [1996,rus] 50-6404
- Ice complex and greenhouse gases. Kunitzki, V.V., [1996,rus] 50-6380
- Reconstruction of the paleotemperature of the air according to ground ice isotopes. Koniakhin, M.A., [1990,rus] 50-1632
- Relationship between surface and subsurface glaciation on the East European Plain in the Dnepr cold epoch. Nechaev, V.P., [1996,rus] 50-6357
- Tridium analysis of ground ice: results and prospects. Chizhov, A.B., et al. [1996,rus] 50-6385
- See [also]: Ground ice; Ice wedges
- Ice volume**
- 1994/95 winter ice in the Baltic Sea between the Ems and the Oder rivers. Strübing, K., [1995,ger] 50-4535
- Alteration of volatile inventories by polar clathrate formation on Mars. Musselwhite, D., et al. [1995,eng] 50-2133
- Arctic sea ice extent and thickness. Wadhams, P., [1995,eng] 50-5235
- Asian glacier ice flow and mass continuity. Cherkasov, P.A., et al. [1996,eng] 50-6057
- Changes in ice volume of the Fedchenko Glacier over three decades (1928-1958). Dorofeev, I.G., [1972,rus] 50-548
- Distribution of seasonal net production of sea ice on the Arctic Ocean. Kakuta, S., et al. [1996,eng] 50-5894
- Elastic response of the earth to interannual variations in antarctic precipitation. Conrad, C.P., et al. [1995,eng] 50-3089
- Glacier resources and distributive characteristics in the Central Asia Tianshan Mountains. Liu, C.H., [1995,chi] 50-5630
- Glaciers and climate of the mountains of the former USSR during the Neoglaciation. Serebrianniy, L.R., et al. [1996,eng] 50-6552
- Ice-sheet growth and high-latitudes sea-surface temperature. Berger, A., et al. [1996,eng] 50-5862
- Ice-volume forcing of East Asian winter monsoon variations in the past 800,000 years. Ding, Z.L., et al. [1995,eng] 50-965
- Late Cenozoic history of the Scandinavian and Barents Sea ice sheets. Mangerud, J., et al. [1996,eng] 50-5305
- Long-term ice-sheet stability study in Ross Sea cores. Licht, K., et al. [1994,eng] 50-1893
- Low probability of east Antarctica Pliocene deglaciation. Warnke, D.A., et al. [1996,eng] 50-6628
- Method for continuous measurement of ice cover thickness. Nordell, B., et al. [1995,eng] 50-1145
- Microwave permittivity of dry snow. Mätzler, C., [1996,eng] 50-3887
- Modeling of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996,eng] 50-6715
- Paleoclimatological variations from isotope analysis of marine deposits. Rial, J.A., [1995,eng] 50-1286
- Possible influence of glacial eustasy on antarctic shelf stratigraphy. Bartek, L.R., et al. [1996,eng] 50-4823
- Predicting the Vostok CO₂ curve. Saltzman, B., et al. [1995,eng] 50-821
- Quaternary Fourier stratigraphy: orbital templates and Milankovitch anomalies. Berger, W.H., [1994,eng] 50-1066
- Radar measurements of melt zones on the Greenland ice sheet. Jezek, K.C., et al. [1994,eng] 50-4804
- Reconstruction of the ice winter severity since 1701 in the western Baltic. Koslowski, G., et al. [1995,eng] 50-1957
- Sea ice extent and surface mass accumulation in Amundsen, Bellingshausen and Weddell seas. Giovinetto, M.B., et al. [1993,eng] 50-3553
- Sea-ice evolution in the Amundsen and Bellingshausen Seas. Jacobs, S.S., [1994,eng] 50-2226

Ice water interface

- Snow and ice characteristics of the Bellingshausen Sea, during the spring melt. Aldworth, E., [1995,eng] 50-1022
- Source of errors in surface area measurements of glacier mass balance. Jacobsen, F.M., et al. [1995,eng] 50-1865
- Summer solstice solar radiation, the 100 kyr ice age cycle, and the next ice age. Ledley, T.S., [1995,eng] 50-1214
- Ten million year histories of obliquity and precession: the influence of the ice-age cycle. Jiang, X.H., et al. [1996,eng] 50-5044
- Western Weddell stratification and ice cover. Gordon, A.L., et al. [1994,eng] 50-2224
- Ice water interface**
- 1991 ice jamming along the Saint John River: a case study. Beltaos, S., et al. [1996,eng] 50-5809
- Acoustic and seismic studies of ice mechanics. Farmer, D., et al. [1995,eng] 50-6272
- Action of HPLC6 antifreeze polypeptide in solution. Brooke-Taylor, C.A., et al. [1996,eng] 50-5298
- Adhesion of oil to plastics, stainless steel and ice. Liukkonen, S., et al. [1995,eng] 50-5716
- Analogue computer for solving growth problems of floating ice. Schwerdtfeger, P., [1964,eng] 50-4608
- Analysis of ice-formation in a stenotic tube. Suh, J.S., et al. [1996,eng] 50-6460
- Analysis of the Kominet pipeline oil. Lambert, P., et al. [1995,eng] 50-5734
- Antarctic ice sheet melting in the southeast Pacific. Jacobs, S.S., et al. [1996,eng] 50-5458
- Arctic oceanography: marginal ice zones and continental shelves. Smith, W.O., Jr., ed. et al. [1995,eng] 50-1159
- Asymptotic stability of the viscous-plastic sea ice rheology. Schulkes, R.M.S.M., [1996,eng] 50-4534
- Augmentation or suppression of ice accumulation on a cold flat-plate in water-flow channel. Hirata, T., et al. [1996,eng] 50-6462
- AUV operations in the Arctic. Bellingham, J.G., et al. [1995,eng] 50-6307
- Backscattering radar measurements of spherical ice cloud crystals. Prodi, F., et al. [1996,eng] 50-4502
- Biogenic organic compounds in ponds on the McMurdo Ice Shelf. Schall, C., et al. [1996,eng] 50-3703
- Biogeochemical cycling in a seasonally anoxic lake. Hamilton-Taylor, J., et al. [1996,eng] 50-5818
- Biological processes on arctic continental shelves: ice-ocean-biotic interactions. Grebmeier, J.M., et al. [1995,eng] 50-1166
- Brief review of physical and mathematical models of frost heave. Holden, J.T., [1981,eng] 50-2137
- Bubbles for ice melting. [1996,eng] 50-4182
- Calculation of spectral albedo for a melt pond. Makshtas, A., et al. [1995,eng] 50-2066
- Calculation of the strength of the ice cover during breakup of rivers. Ginzburg, B.M., et al. [1995,eng] 50-351
- Calculation of water transport in the LR 90 test. Onalp, A., [1977,eng] 50-2325
- Calibration of time domain reflectometry for measurement of liquid water in frozen soils. Seyfried, M.S., et al. [1996,eng] 50-3308
- Calorimetric determination of permafrost water-ice phase composition. Fortier, R., et al. [1996,eng] 50-4863
- Characteristics of freezing in five lakes within the jurisdiction of Kushiro. Toukairin, A., [1996,eng] 50-5908
- Characteristics of frequency spectra of wind waves in the presence of ice floes. Hayakawa, T., et al. [1996,jpn] 50-5881
- Characteristics of sound reflected from sea ice. Aleksandrov, I.A., et al. [1995,eng] 50-3153
- Characteristics of tide-water calving at Glacier San Rafael, Chile. Warren, C.R., et al. [1995,eng] 50-450
- Chemical oceanography of the Arctic and its shelf seas. Anderson, L.G., [1995,eng] 50-1164
- Chlorophyll distribution in a body of fresh water covered with ice. Zavoruev, V.V., et al. [1996,eng] 50-5816
- Circulation and transport of water along the western Weddell Sea margin. Muench, R.D., et al. [1995,eng] 50-568
- Climate change and biological oceanography of the Arctic Ocean. Gradinger, R., [1995,eng] 50-5233
- Coastal environments of the western Kara and eastern Barents Seas. Pirman, S.L., et al. [1995,eng] 50-4558
- Comment on "Surface layers on ice" by C.A. Knight. Baker, M.B., et al. [1996,eng] 50-6059
- Comments and reply on paper of Venkatesh et al. Marko, J.R., et al. [1995,eng] 50-601
- Competition of precipitation particles in a model with parameterized cloud microphysics. Wacker, U., [1995,eng] 50-413
- Comprehensive review of oil spill combustion studies. Walavalkar, A.Y., et al. [1996,eng] 50-5559
- Compressive creep of polycrystalline ice containing a liquid phase. de la Chapelle, S., et al. [1995,eng] 50-595
- Convection induced polyynas during the freezing of antarctic seawater. Hadji, L., [1996,eng] 50-6452
- Corn snow—today's skiing, tomorrow's meltwater. Colbeck, S.C., [1996,eng] 50-4758
- Coupling and propagation of elastic waves in arctic pack ice. Jarvis, S.M., et al. [1994,eng] 50-5178
- Crack velocities in freshwater and saline ice. Petrenko, V.F., et al. [1996,eng] 50-5299
- Cryomicroscopic determination of ice crystal growth in the system 2,4-pentandiol/water. Mehl, P.M., [1996,eng] 50-2744
- Deep water formation in the Greenland Sea. Pawlowicz, R.A., et al. [1996,eng] 50-6669

Ice water interface

Ice water interface

- Dense water formation on arctic shelves. Gawarkiewicz, G., et al. [1996,eng] 50-6671
- Development and stability of preferential flow paths in a layered snowpack. Schneebeli, M., [1995,eng] 50-2402
- Development of a quantitative model of frost heave. Holden, J.T., [1977,eng] 50-2322
- Development of models of freezing and convection during cryogenic pipe freezing. Keary, A.C., et al. [1996,eng] 50-6464
- Diffuse interface analysis of ice nucleation in undercooled water. Gránásky, L., [1995,eng] 50-1279
- Dispersion-force effects in interfacial premelting of ice. Wilen, L.A., et al. [1995,eng] 50-2134
- Disposition of solar radiation in sea ice and the upper ocean. Ebert, E.E., et al. [1995,eng] 50-572
- Distribution of sea-ice algae in Hudson Bay. Monti, D., et al. [1996,eng] 50-5211
- Distribution of water in hailstones. Chylek, P., et al. [1984,eng] 50-4495
- Disturbances in the thermohaline structure of the near-surface ocean layer in the wake of an iceberg. Abaza, V.P., et al. [1995,rus] 50-4202
- Dynamics of river ice jam release. Shen, H.T., et al. [1996,eng] 50-6156
- Effect of breakup of melting snowflakes on the resulting size distribution of raindrops. Fujiyoshi, Y., et al. [1996,eng] 50-6724
- Effect of sea ice on the salinity of antarctic bottom waters. Toggweiler, J.R., et al. [1995,eng] 50-336
- Effect of snow hydrology on glacial runoff. Fountain, A.G., [1996,eng] 50-6084
- Effects of floating ice cracks on propagation of flexural waves. Bukatov, A.E., et al. [1996,eng] 50-3410
- Effects of moraine-bank sediment budgets on valley glacier stability. Hunter, L.E., et al. [1996,eng] 50-6263
- Effects of sea ice cover on atmospheric methane over the Sea of Okhotsk. Lammers, S., et al. [1995,eng] 50-1147
- Effects of the variation in suction and heat flow during the frost heaving process. Jones, R.H., [1977,eng] 50-2323
- Electric field effects on growing ice surface force curves. Slaughterbeck, C.R., et al. [1996,eng] 50-5939
- Electric fields and charges near 0°C in stratiform clouds. Shepherd, T.R., et al. [1996,eng] 50-5821
- Electrical freezing potentials measured in a pingo growing in the western Canadian Arctic. Parameswaran, V.R., et al. [1996,eng] 50-5471
- Emulsion breaking igniters: recent developments in oil spill igniter concepts. Guénette, C.C., et al. [1995,eng] 50-5729
- Engineering repercussions of ocean wave propagation in ice-infested seas. Squire, V.A., [1995,eng] 50-176
- Environmental factors influencing the biodegradation of petroleum hydrocarbons in cold seawater. Siron, R., et al. [1995,eng] 50-651
- Erosion by water flowing under ice. Tietze, W., [1961,ger] 50-5747
- Estimating sea ice thickness from impulse radar sounding time of flight data. Kovacs, A., et al. [1992,eng] 50-61
- Estimation of mean flow velocity in ice-covered channels—discussion. Engel, P., et al. [1996,eng] 50-6338
- Estimation of mean velocity for flow under ice cover. Teal, M.J., et al. [1995,eng] 50-4040
- Evaluation of controls on iceberg-calving glaciers. Wiles, G.C., et al. [1995,eng] 50-3324
- Evaluation of flow resistance in ice-covered channels. Braileanu, F., et al. [1996,eng] 50-6157
- Evaporation rate, free energy, and entropy of amorphous water at 150 K. Speedy, R.J., et al. [1996,eng] 50-5920
- Examining the use of time domain reflectometry for measuring liquid water content in frozen soil. Spaans, E.J.A., et al. [1995,eng] 50-2543
- Exclusion of sodium chloride from ice during freezing. Cragin, J.H., [1995,eng] 50-3131
- Experimental closure of the heat and mass transfer theory of spheroidal hailstones. Greenan, B.J.W., et al. [1995,eng] 50-2117
- Experimental study on the melting transition at interface between ice crystal and substrate. Furukawa, Y., et al. [1994,eng] 50-3072
- Field observations and measurements of ice jams. Petryk, S., et al. [1995,eng] 50-791
- Fifteen years of arctic acoustics and ice camps. Von der Heydt, K., et al. [1996,eng] 50-6667
- Flow-finger continuity in serial thick-sections in a melting Sierran snowpack. McGurk, B.J., et al. [1995,eng] 50-2401
- Formation and evolution of the surface mixed layer and halocline of the Arctic Ocean. Rudels, B., et al. [1996,eng] 50-5261
- Formation and morphology of ice stalactites observed under deforming lead ice. Perovich, D.K., et al. [1995,eng] 50-452
- Formation of ice between hydrotalcite particles measured by thermoporometry. Titulaer, M.K., et al. [1996,eng] 50-6330
- Formation of ice layers in a straight walled, rectangular diffuser. Neumann, S.O., et al. [1996,eng] 50-6469
- Freeze closing of a convectively cooled parallel plate channel. Lipnicki, Z., et al. [1996,eng] 50-6461
- Freeze concentration by layer crystallization. Flesland, O., [1995,eng] 50-5943
- Freeze-thaw dewatering and structural enhancement of fine coal tails. Stahl, R.P., et al. [1995,eng] 50-357
- Freezing of an aqueous sodium chloride saturated packed bed. Choi, J., et al. [1993,eng] 50-5781
- Fresh water in Svalbard fjord ecosystems. Węśławski, J.M., et al. [1995,eng] 50-4137
- Freshwater impact on Hudson bay ecosystems under sea ice, pt.2. Legendre, L., et al. [1996,eng] 50-4020
- Frost heave due to ice lens formation in freezing soils. 1. Theory and verification. Sheng, D., et al. [1995,eng] 50-742
- Fundamentals of ice lens formation. Takagi, S., [1975,eng] 50-3390
- Giant facets at ice grain boundary grooves. Wilen, W.A., et al. [1995,eng] 50-973
- GPS recording of Hells Gate ice shelf tidal responses. Bondesan, A., et al. [1994,eng] 50-3765
- Grain multiplication mechanism for sea ice transition zone formation. Wei, Y.C., et al. [1995,eng] 50-1143
- Grain-scale mechanisms influencing the elution of ions from snow. Cragin, J.H., et al. [1996,eng] 50-1975
- Heat and dissolved oxygen transport processes in ice-covered lakes. Ellis, C.R., [1994,eng] 50-373
- Heat transfer during a water jet impinging on the underside of ice. Bhanjali, A.P., [1994,eng] 50-678
- Heat transfer during the freezing of water in a cylinder. Yim, C.S., et al. [1996,eng] 50-6466
- Heat transfer in an ice-water saturated porous medium. Zhang, X.L., [1993,eng] 50-5782
- High pressure-differential thermal analysis of ice-water equilibrium at 1.5-5.0 GPa. Xu, Y.S., et al. [1995,eng] 50-3392
- Hindsight on river ice jam stability. Beliaos, S., [1996,eng] 50-6425
- Hydraulic resistance acting on ice floes. Kawai, K., et al. [1996,jpn] 50-5885
- Hydrochemical study of snow meltwater and snow cover. Suzuki, K., [1995,eng] 50-2404
- Ice buoy tests of Barents Sea tidal motions. Pease, C.H., et al. [1995,eng] 50-2776
- Ice content retrieval from clouds using Doppler radar. Sauvageot, H., [1996,eng] 50-2772
- Ice drift and oil spill hazard off Sakhalin. Kalinin, E.N., et al. [1996,eng] 50-5900
- Ice effects on Mackenzie River hydraulics at the outlet of Great Slave Lake. Chen, X.B., [1993,eng] 50-377
- Ice jam processes. Beliaos, S., [1995,eng] 50-786
- Ice surface oscillation measurements on SIMI using strain, heave and tilt sensors. Wadhams, P., et al. [1995,eng] 50-6306
- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., [1995,eng] 50-2480
- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., et al. [1995,eng] 50-4039
- Ice-covered temperate lake limnology. Agbeti, M.D., et al. [1995,eng] 50-739
- Ice/supercooled water linear correlation length from Raman spectroscopy. Walrafen, G.E., et al. [1995,eng] 50-152
- Iceberg observations and estimation of submarine ridges in the western Weddell Sea. Viehoff, T., et al. [1995,eng] 50-1818
- Implications of glacial hydrology and flow for subglacial drainage dynamics. Raymond, C.F., et al. [1995,eng] 50-451
- Impulse radar studies of interface roughness. Jezek, K.C., et al. [1992,eng] 50-60
- In-situ burning of crude oil and emulsions in broken ice. Guénette, C.C., et al. [1996,eng] 50-5557
- Incorporation and rejection of alum sludge flocs by an advancing freezing front. Parker, P.J., et al. [1996,eng] 50-6170
- Incorporation of a drainage layer and infiltration into FROST. Abdel-Salam, A., et al. [1993,eng] 50-6050
- Inertial currents in the Beaufort Sea: observations of response to wind and shear. Merrifield, M.A., et al. [1996,eng] 50-4299
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1995,eng] 50-2954
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1996,eng] 50-5161
- Interactive oil spill trajectory model for Alaskan arctic waters. Britch, R.P., et al. [1990,eng] 50-468
- Interface location and flow visualization in water-ice systems. Elkouh, N., et al. [1996,eng] 50-6459
- Investigation of the dynamic loading of ice. Chizhov, V.E., [1996,eng] 50-5269
- Ion flux through a shallow snowpack: effects of initial conditions and melt sequences. Davis, R.E., et al. [1995,eng] 50-2405
- Ions and dipoles in water and ice, and their transfer through the interface. Von Hippel, A., et al. [1974,eng] 50-5739
- JAMSTEC coupled model of arctic sea-ice and ocean. Kakuta, S., et al. [1996,eng] 50-4478
- Kinetics of ice nucleation initiated by molecular crystals. Atsimirskii, V.K., et al. [1995,eng] 50-3815
- Laboratory tests of oil fate in cold water, ice and waves. Timco, G.W., et al. [1995,eng] 50-51
- Life cycle of *Parabiodocera antarctica* at Showa Station. Tanimura, A., et al. [1996,eng] 50-6414
- Liquid ice melting along a bundle of heated cylinders. Yamada, M., et al. [1996,eng] 50-4965
- Long-term trend in sea ice thickness variation in the Arctic basin. Nagurnyi, A.P., [1995,eng] 50-5479
- Mathematical model of frost heave and thaw settlement in pavements—draft. Guymon, G.L., et al. [1986,eng] 50-4348
- Mathematical model of pollution vectors in the arctic basin. Krapivin, V.F., et al. [1996,eng] 50-3412
- Mathematical model of the freezing-thawing of saline frozen soil. Vasil'ev, V.I., et al. [1996,eng] 50-5268
- Maximum flow rate of floating snow in an open channel. Fukushima, Y., [1995,jpn] 50-3508
- Measurements of the underside topography of sea ice by moored subsea sonar. Melling, H., et al. [1995,eng] 50-160
- Melting driven thermohaline convection. Bénard, C., et al. [1996,eng] 50-3611
- Melting heat transfer of a horizontal ice cylinder immersed within an immiscible liquid. Yamada, M., et al. [1996,eng] 50-6456
- Melting rates of brash ice in Arthur Harbor. Smith, N.D., et al. [1994,eng] 50-2222
- Metal hydrolysis on a deeply cooled ice surface. Winter, H., et al. [1995,eng] 50-1102
- Method for continuous measurement of ice cover thickness. Nordell, B., et al. [1995,eng] 50-1145
- Methods for measuring discharge under ice cover—discussion. Engel, P., et al. [1996,eng] 50-2721
- Mixing in ice-covered lakes. Bengtsson, L., [1996,eng] 50-6579
- Model of drag forces on sea ice bottom surfaces. Pite, H.D., et al. [1995,eng] 50-2740
- Model of ductile behavior of columnar grained sea ice. Zhan, C., et al. [1996,eng] 50-5184
- Model of mesoscale motions of ice caused by convective flows. Goldstein, R.V., et al. [1995,eng] 50-2948
- Modelling the spread of oil spills in ice-infested waters. Venkatesh, S., et al. [1990,eng] 50-467
- Moisture movement and freezing pressures. Hoekstra, P., [1968,eng] 50-1976
- Molecular dynamics simulation of ice crystal growth. Nada, H., et al. [1996,jpn] 50-4932
- Molecular dynamics study of surface melting on ice crystal. Nada, H., et al. [1994,eng] 50-3073
- Monitoring lead dynamics with ERS-1 synthetic aperture radar imagery. Wackerman, C.C., et al. [1994,eng] 50-1512
- Movement of ACC eddies at the eastern boundary of the Weddell Gyre. Guretskii, V.V., et al. [1994,eng] 50-337
- Natural convection for the melting of ice in porous media in a rectangular enclosure. Chang, W.J., et al. [1996,eng] 50-4533
- New experimental data on ice VI, ice VII and liquid water phase boundaries. Tkachev, S.N., et al. [1995,rus] 50-4114
- New insights on large-scale oceanography in Fram Strait: the West Spitsbergen Current. Gascard, J.C., et al. [1995,eng] 50-1163
- Nucleation rates in freezing of molecular clusters. Bartell, L.S., [1995,eng] 50-2346
- Numerical model of flow in ice-covered channel. Yoon, J.Y., et al. [1996,eng] 50-2720
- Numerical modelling of ice jam resistance to main channel flow. Saadé, R.G., et al. [1995,eng] 50-6206
- Numerical prediction of sea surges and ice conditions on the Laptev and East-Siberian Sea. Ashik, I.M., [1995,eng] 50-2069
- Numerical simulation of river ice processes. Shen, H.T., et al. [1995,eng] 50-355
- Nutrients in the Aral Sea in winter. Tsytarin, A.G., [1995,eng] 50-5481
- Occurrence of an algal bloom under arctic pack ice. Gradinger, R., [1996,eng] 50-4159
- Of ocean waves and sea ice. Squire, V.A., et al. [1995,eng] 50-5241
- Oil pollution in ice covered seas. Arita, M., et al. [1996,jpn] 50-5899
- Oil spills in open and ice-infested waters: a comparative need for data on water currents. Venkatesh, S., [1995,eng] 50-5932
- On the generation of internal waves beneath sea ice by a moving load. Duffy, D.G., [1996,eng] 50-3825
- On the ice-ocean response to wind forcing. Omstedt, A., et al. [1996,eng] 50-6666
- Organic sedimentation in an arctic delta. Peulvé, S., et al. [1996,eng] 50-5819
- Oscillatory convection during melting of ice in a vertical rectangular enclosure. Ho, C.J., et al. [1996,eng] 50-6454
- Oxidation of S(IV) during riming by cloud droplets. Iribarne, J.V., et al. [1995,eng] 50-1103
- Penetrative convection induced by the freezing of seawater. Hadji, L., et al. [1996,eng] 50-6761
- Performance of lagoons experiencing seasonal ice cover. Price, D.S., et al. [1995,eng] 50-2124
- Periodic water saturation of ice wedges: results of an oxygen-18 and deuterium study. Lauriol, B., et al. [1995,fre] 50-667
- Phase equilibria in extended simple point charge ice-water systems. Báez, L.A., et al. [1995,eng] 50-2606
- Phase transitions of ice confined in mesopores. Hansen, E.W., et al. [1996,eng] 50-4141
- Phreatic water surface profiles along ice jams—an experimental study. Saadé, R.G., et al. [1996,eng] 50-6693
- Physical limnological processes under ice. Kenney, B.C., [1996,eng] 50-6578
- Physical modeling of ice jams. Wuebben, J.L., [1995,eng] 50-789
- Planar forcing of floating ice sheets. Zhao, Z.G., et al. [1996,eng] 50-1108
- Plankton dynamics in the Barents Sea marginal ice zone. Hansen, B., et al. [1996,eng] 50-3528
- Pore-water pressures in freezing and thawing fine-grained soils. Eigenbrod, K.D., et al. [1996,eng] 50-4756
- Potential food applications of high-pressure effects on ice-water transitions. Kalichevsky, M.T., et al. [1995,eng] 50-1955

Ice wedges

- Precipitation and river runoff in an ice-ocean model of the Arctic. Weatherly, J.W., [1994,eng] 50-675
- Preconditioning the Greenland Sea for deep convection: ice formation and ice drift. Visbeck, M., et al., [1995,eng] 50-567
- Prediction model for complete ice cover formation in partly open water. Sasaki, N., et al., [1996,eng] 50-4480
- Prediction of frost heave of roads—a simple empirical model. Sætersdal, R., [1981,eng] 50-2139
- Pressure studies on frost heave in soil and glaciers. Radd, F.J., et al., [1966,eng] 50-1409
- Probabilistic approach to determining frost heave. Chamberlain, E.J., et al., [1981,eng] 50-2141
- Proceedings. International Symposium on Thermal Engineering and Sciences for Cold Regions, 5th, Ottawa, May 19-22, 1996, [1996,eng] 50-6428
- Proceedings. Seminar on the Prediction of Frost Heave, Nottingham, England, Apr. 9, 1981, [1981,eng] 50-2135
- Quantitative cold differential thermal analysis. Dunn, J.R., et al., [1965,eng] 50-4739
- Rain production in convective clouds, pt.2. Reisin, T., et al., [1996,eng] 50-6325
- Rapid test for the determination of frost susceptibility of soils. Leary, R.M., [1977,eng] 50-4259
- Real time oil spill forecasting during an experimental oil spill in the arctic ice. Reed, M., et al., [1994,eng] 50-1685
- Release of brine-enriched shelf water from Storfjord into the Norwegian Sea. Schauer, U., [1995,eng] 50-574
- Remote sensing of oil spills. Fingas, M.F., [1990,eng] 50-473
- Research on a thermal conductivity measurement of supercooled water. Saito, A., et al., [1996,eng] 50-6475
- Response of a circular ice floe to ocean waves. Meylan, M.H., et al., [1996,eng] 50-5264
- Retrieval of cloud liquid water and precipitation from polarized microwave simulations. Bauer, P., et al., [1992,eng] 50-229
- River ice jams. Beltaos, S., ed., [1995,eng] 50-783
- River-coastal sea ice interaction model: Mackenzie River Delta. Searcy, C., et al., [1996,eng] 50-5265
- Role of electrified ice meltwater in thunderstorms. Kamra, A.K., et al., [1984,eng] 50-4923
- SARA, an autonomous underwater vehicle for researches in Antarctica. Papalia, B., et al., [1994,eng] 50-5181
- Satellite remote sensing of the Arctic Ocean and adjacent seas. Comiso, J.C., [1995,eng] 50-1160
- Satellite SAR identification of lake water resources on the North Slope. Jeffries, M.O., et al., [1996,eng] 50-6177
- Satellite studies of pollution in the Barents and Kara seas. Kögeler, J., et al., [1995,eng] 50-4136
- Saturated cemented porous material permeability during freezing. Kralj, B., et al., [1996,eng] 50-5024
- Sea ice field experiments in the Laptev Sea, 1976. Gorbunov, I.U., et al., [1995,eng] 50-2064
- Sea ice over-flooding and oil spills in the Mackenzie Delta. Webb, R., [1995,eng] 50-5720
- Sea of Okhotsk near-freezing dichothermal layer variations. Yang, J.Y., et al., [1996,eng] 50-6219
- Seasonal development of Beaufort Sea pack ice. Melling, H., et al., [1996,eng] 50-5857
- Seasonal variations in antarctic sea ice brine chemistry. Gleitz, M., et al., [1995,eng] 50-1117
- Seasonal variations in arctic glacier sediment transport. Hodgkins, R., [1996,eng] 50-6253
- Sediment discharge from an Alaskan surging glacier. Merrand, Y., et al., [1996,eng] 50-6266
- Sediment transport by Laptev Sea ice. Reimnitz, E., et al., [1995,eng] 50-2072
- Sedimentology and geomorphology of fjords. Syvitski, J.P.M., et al., [1995,eng] 50-1116
- Seeding implications of ice crystal growth in the turbulent boundary layer. Levy, G., et al., [1984,eng] 50-4496
- Seismic activity of landfast ice. Nikitin, V.A., et al., [1995,eng] 50-188
- Self-excited oscillations in ice floes and icebergs. Smirnov, V.N., et al., [1995,eng] 50-2946
- Simulation and analysis of upper Niagara River ice-jam conditions. Wang, D.S., et al., [1995,eng] 50-356
- Snow. Colbeck, S.C., [1996,eng] 50-4614
- Solidification and melting of water around a vertical heat transfer plate. Hirasawa, Y., et al., [1996,eng] 50-6470
- Solidification of pure liquids and liquid mixtures inside ducts and over external bodies. Fukusako, S., et al., [1994,eng] 50-2348
- Solution and stability of natural convective snow in a melt puddle. Bogorodskii, P.V., [1995,eng] 50-2067
- Sound reflection from ice cover. Kudriashov, V.M., [1996,eng] 50-4627
- Stability of M_2 critical latitude in the Barents Sea. Furevik, T., et al., [1996,eng] 50-5262
- Studies of clean and sediment-laden ice in the Laptev Sea. Eicken, H., et al., [1995,eng] 50-2071
- Study of brash ice in the proximal marine zone of a sub-polar tidewater glacier. Smith, N.D., et al., [1996,eng] 50-6224
- Study of dynamic effects on icebreaking in 2-dimension: computations and components of icebreaking load. Yamaguchi, H., et al., [1996,eng] 50-4469
- Subglacial hydrology of a Swiss glacier. Hubbard, B.P., et al., [1995,eng] 50-1878
- Subglacial lake burst variations in Iceland. Gudmundsson, M.T., et al., [1995,eng] 50-449
- Submersible remote controlled vehicles for glacier-ocean-sediment study. Dowdeswell, J.A., et al., [1996,eng] 50-4902

- Submersible ROBY is tested in Antarctica. Bono, R., et al., [1994,eng] 50-5182
- Surface wave diffraction at a system of cracks in the ice cover. Goldshtein, R.V., et al., [1995,eng] 50-2949
- Temperature distribution in Collins Ice Cap, King George I. Han, J.K., et al., [1995,eng] 50-3615
- Temperature variability beneath Ronne Ice Shelf, Antarctica, from thermistor cables. Nicholls, K.W., [1996,eng] 50-2846
- Temporal evolution of under ice reflectivity. Laible, H.A., et al., [1996,eng] 50-4591
- Theory of ice jams. Beltaos, S., [1995,eng] 50-787
- Thermal equilibrium in freezing unsaturated porous media. Tao, Y.X., et al., [1993,eng] 50-3362
- Thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. Björnson, H., et al., [1996,eng] 50-4888
- Thermal stratification effects near a vertical ice slab in cold water. Kukulka, D.J., et al., [1993,eng] 50-3361
- Thermodynamic model of lake ice formation and melting. Dmitriev, N.V., [1995,eng] 50-5480
- Thermohaline circulation of the Arctic Ocean and the Greenland Sea. Rudels, B., [1995,eng] 50-5234
- Thickness determination of a water film on dye-doped ice by fluorescence spectroscopy. Strausky, H., et al., [1996,eng] 50-3967
- Thickness of summer Arctic Ocean multiyear ice. Eicken, H., et al., [1995,eng] 50-2112
- Three dimensional convective flow around a melting ice cylinder. Oosthuizen, P.H., et al., [1996,eng] 50-6453
- Three-dimensional simulation of river ice jams. Hopkins, M.A., et al., [1996,eng] 50-6155
- Three-layer model of flow under the ice cover in rivers. Debol'skii, V.K., et al., [1995,eng] 50-352
- Tidally forced under-ice Ekman layers observed by an acoustic Doppler current profiler. Marsden, R.F., et al., [1995,eng] 50-5933
- Tracer experiments to determine subglacial pressurized flow in Storgliaciären. Kohler, J., [1995,eng] 50-445
- Transarctic acoustic propagation. Mikhalevsky, P.N., et al., [1995,eng] 50-6273
- Ultrasonic measurement of melting ice heat transfer coefficients. Bhansali, A.P., et al., [1996,eng] 50-6760
- Under cover transport and accumulation of frazil granules—discussion. Quo, Q.Z., et al., [1996,eng] 50-6337
- Underwater explosions beneath ice. Tanglis, E., et al., [1989,eng] 50-3836
- Unfrozen water types in hydrated phospholipid bilayers. Hsieh, C.H., et al., [1995,eng] 50-3038
- Upward flushing of sea water through first year sea ice. Hudier, E.J.J., et al., [1995,eng] 50-4210
- Use of dispersants in broken ice. Brown, H.M., et al., [1996,eng] 50-5553
- Use of surfactants in oil spill remediation in cold regions. Turneo, M.A., et al., [1995,eng] 50-5723
- Use of thermal analysis in the development of a better understanding of frozen food stability. Goff, H.D., [1995,eng] 50-3357
- Using reed beds for winter operation of wetland treatment system for wastewater. Yin, H., et al., [1995,eng] 50-6067
- Vertical mixing processes in the western Weddell Sea. Robertson, R., et al., [1995,eng] 50-569
- Water movement in wet snow. Gray, J.M.N.T., [1996,eng] 50-3727
- Water pressure and basal sliding on Storgliaciären, northern Sweden. Jansson, P., [1995,eng] 50-446
- Wave-pancake ice interactions. Shen, H.H., et al., [1994,eng] 50-2221
- Western Weddell stratification and ice cover. Gordon, A.L., et al., [1994,eng] 50-2224
- WinOil: an oil spill model for Windows 95. McGillivray, D.G., et al., [1996,eng] 50-5555
- Winter methane dynamics in a temperate peatland. Melloh, R.A., et al., [1996,eng] 50-6052
- World of snow and ice. Kotliakov, V.M., [1994,rus] 50-1420
- Ice wedges**
- Borehole penetration and expansion devices for ice testing. Ladanyi, B., [1996,eng] 50-5048
- Changes in the lithology and pedology of tills from the Warta Glaciation in the Bełchatów mine. Baraniecka, M.D., et al., [1993,pol] 50-3653
- European soil thermal contraction related to ice sheet dynamics. van Vliet-Lancé, B., [1996,fre] 50-6340
- Hillslope ice wedges and landform evolution on coastal arctic Canada. Mackay, J.R., [1995,eng] 50-3298
- Ice complex and greenhouse gases. Kunitzki, V.V., [1996,rus] 50-6380
- Ice-wedge formation in northern Asia during the Holocene. Vasil'chuk, I.U.K., et al., [1996,eng] 50-6705
- Lacustrine thermokarst in northern Chukotka. Tishin, M.I., [1990,rus] 50-1628
- Palaeocryogenic analysis of loess-paleosol sequences. Velichko, A.A., et al., [1995,eng] 50-1036
- Paleoecological significance of Quaternary permafrost relics in arctic Canada. Murton, J.B., [1996,eng] 50-3645
- Periodic water saturation of ice wedges: results of an oxygen-18 and deuterium study. Lauriol, B., et al., [1995,fre] 50-667
- Permafrost in China: past and present. Qiu, G.Q., et al., [1995,eng] 50-664
- Pleistocene paleosol soil development in northwest Alaska. Höffe, C., et al., [1996,eng] 50-6517

- Preliminary results of ground ice studies in the Herschel Island area, Yukon coastal plain. Pollard, W.H., [1990,eng] 50-1622
- See [also]: Ground ice; Ice veins
- Iceberg towing**
- Quantification of the reliability of iceberg management off eastern Canada. Goodridge, D.N., et al., [1995,eng] 50-2947
- Transporting icebergs as a fresh water source. [1974,eng] 50-4026
- Icebergs**
- Analysis of coastal ice cover using ERS-1 SAR data. Leshkevich, G., et al., [1995,eng] 50-1822
- Arctic oceanography: the path of North Atlantic Deep Water. [1994,eng] 50-976
- Atlas of Arctic icebergs. Abramov, V., [1996,eng] 50-6320
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Bering glacier resumes its surge. Molnia, B.F., [1995,eng] 50-3356
- Characteristics of tide-water calving at Glacier San Rafael, Chile. Warren, C.R., et al., [1995,eng] 50-450
- Comments and reply on paper of Venkatesh et al. Marko, J.R., et al., [1995,eng] 50-601
- Concrete TLP to sit out Barents bergs. Cottrill, A., [1990,eng] 50-3866
- Disturbances in the thermohaline structure of the near-surface ocean layer in the wake of an iceberg. Abaza, V.P., et al., [1995,rus] 50-4202
- Drift of the tabular iceberg Filchner 1986A. Skvarca, P., et al., [1993,spa] 50-3552
- Dynamics of David Glacier and its floating Drygalski Ice Tongue. Frezzotti, M., [1994,ita] 50-2824
- Environment and ecosystems of Novaya Zemlya: the archipelago and shelf. Matishov, G.G., ed., [1995,rus] 50-5145
- Environmental loading studies for the CSA Offshore Structures Code. Allyn, N., et al., [1995,eng] 50-1411
- Evaluation of controls on iceberg-calving glaciers. Wiles, G.C., et al., [1995,eng] 50-3324
- Expedition ARKTIS-VII/3 of RV *Polarstern* in 1990. Miller, H., ed., et al., [1996,ger] 50-4326
- Geochemical criterion for recognition of Pleistocene ice rafting events. Thomson, J., et al., [1995,eng] 50-1250
- Glacial geology: how ice shapes the land. Erickson, J., [1996,eng] 50-3555
- Heinrich events and western US glaciation. Clark, P.U., et al., [1995,eng] 50-558
- Hibernia edges forward as bidding starts. Fox, C., [1988,eng] 50-4969
- Hot ice could contaminate fish. Edwards, R., [1996,eng] 50-4205
- Ice conditions off Greenland. Fabricius, J.S., et al., [1959,dan] 50-406
- Ice rafting history from the Spitsbergen ice cap over the last 200 kyr. Lloyd, J.M., et al., [1996,eng] 50-5224
- Iceberg active and passive sonar acoustics and navigation safety along the Northern Sea Route. Gavrilov, V.P., et al., [1996,eng] 50-4483
- Iceberg detection using ERS-1 synthetic aperture radar. Willis, C.J., et al., [1996,eng] 50-5225
- Iceberg furrows as paleowind indicators in Lake Ojibway. Veilleux, J.J., et al., [1996,eng] 50-2498
- Iceberg observations and estimation of submarine ridges in the western Weddell Sea. Viehoff, T., et al., [1995,eng] 50-1818
- Iceberg-structure interaction probabilities for design. Fuglem, M., et al., [1996,eng] 50-5052
- Icebergs. Allison, I., [1996,eng] 50-4991
- Impact of iceberg scouring on polar benthic habitats. Gutt, J., et al., [1996,eng] 50-6567
- Interhemispheric correlation of Late Pleistocene glacial events. Lowell, T.V., et al., [1995,eng] 50-231
- Isotope tracking of Pleistocene ice-rafted debris. Gwiazda, R.H., et al., [1996,eng] 50-4399
- Jökullhlup from Katla in 1918. Tómasson, H., [1996,eng] 50-6268
- Large-diameter glory hole drilling: the evolution from 12- to 20-ft diameter. Shields, R.G., [1991,eng] 50-1738
- Laurentide ice sheet oscillations as cause of Atlantic Ocean Heinrich events. MacAyeal, D.R., [1993,eng] 50-2869
- Linking physical property records of Quaternary sediments to Heinrich events. Chi, J., et al., [1996,eng] 50-5221
- Low probability of east Antarctica Pliocene deglaciation. Warnke, D.A., et al., [1996,eng] 50-6628
- Low-order model of the Heinrich event cycle. MacAyeal, D.R., [1993,eng] 50-2868
- MANICE. Manual of standard procedures for observing and reporting ice conditions. 8th edition. Canada. Atmospheric Environment Service. Ice Services Branch, [1994,eng] 50-409
- Marine ecology of the Laguna San Rafael (southern Chile): ice scour and opportunism. Davenport, J., [1995,eng] 50-1105
- Marine sedimentation rates as evidence of continental glaciation. Goldschmidt, P.M., [1995,eng] 50-1828
- Melting rates of brash ice in Arthur Harbor. Smith, N.D., et al., [1994,eng] 50-2222
- Meltwater event in the North Atlantic during last glacial maximum. Seidov, D., et al., [1996,eng] 50-6217
- Monitoring and modelling the ice conditions offshore Greenland. Valeur, H.H., et al., [1995,eng] 50-2971
- North Atlantic fossils and Heinrich events. Rahman, A., [1995,eng] 50-559

Icebound lakes

- Observations of sea ice and icebergs in the western Barents Sea during the winter of 1987. Løset, S., et al. [1995,eng] 50-213
- Oceanographic expedition to the Amundsen and Bellingshausen Seas. Jacobs, S.S., et al. [1994,eng] 50-2225
- Offshore development in iceberg-infested waters with the use of a concrete protective barrier. Broughton, P., et al. [1991,eng] 50-1731
- On deflecting drifting icebergs. Rieß, I.R., et al. [1995,eng] 50-2945
- Paleoglacial events on Baffin Island, Labrador Sea. Fillon, R.H., et al. [1981,eng] 50-3621
- Partial disintegration of antarctic ice. Simões, J.C., [1995,por] 50-3936
- Picking out the pack ice from the air. [1989,eng] 50-5645
- Pipeline stability in an ice-scoured seabed. Clark, J.I., et al. [1990,eng] 50-100
- Polar hydrocarbon technologies: future developments. Yates, J., et al. [1995,eng] 50-5446
- Production of high-strength concrete for the Hibernia offshore concrete platform. Hoff, G.C., et al. [1994,eng] 50-2764
- Quantification of the reliability of iceberg management off eastern Canada. Goodridge, D.N., et al. [1995,eng] 50-2947
- Radiocarbon dating of glacial moraines in California. Dorn, R.I., [1996,eng] 50-6098
- Rapid climatic shifts during isotope stages 2-4 in the polar North Atlantic. Dokken, T.M., et al. [1996,eng] 50-6105
- Report of the International Ice Patrol in the North Atlantic, 1994 season. U.S. Coast Guard. [1994,eng] 50-52
- Satellite remote sensing tools for sea ice engineering. Cavané, A., et al. [1995,eng] 50-184
- Self-excited oscillations in ice floes and icebergs. Smirnov, V.N., et al. [1995,eng] 50-2946
- Stress interaction between multiple crevasses in glacier ice. Sassolas, C., et al. [1996,eng] 50-5464
- Structural failure of the *Titanic*. Garzke, W.H., Jr., et al. [1994,eng] 50-5177
- Structure of internal stresses in the uncompacted ice cover. Sukhorukov, K.K., [1995,eng] 50-193
- Study of brash ice in the proximal marine zone of a sub-polar tidewater glacier. Smith, N.D., et al. [1996,eng] 50-6224
- Transporting icebergs as a fresh water source. [1974,eng] 50-4026
- Triaxial experiments on iceberg and glacier ice. Gagnon, R.E., et al. [1995,eng] 50-1874
- Variations in Atlantic Ocean surface paleoceanography. Sarnthein, M., et al. [1995,eng] 50-3003
- Icebound lakes**
- Chemical correlates of Hg and methyl-Hg in northern Wisconsin lake waters under ice-cover. Watras, C.J., et al. [1995,eng] 50-2125
- Climate change in the recent evolution of a pro-glacial lake. Webster, J., et al. [1996,eng] 50-3704
- Glacioclastic environments. Ashley, G.M., [1995,eng] 50-3593
- Ice-covered temperate lake limnology. Agbeti, M.D., et al. [1995,eng] 50-739
- Midge emergence during thaw cycles of a subalpine lake. Sher, T., et al. [1996,eng] 50-4504
- Mixing in ice-covered lakes. Bengtsson, L., [1996,eng] 50-6579
- Physical limnological processes under ice. Kenney, B.C., [1996,eng] 50-6578
- Seasonal variability in high mountain lake water chemistry. Wögrath, S., et al. [1995,eng] 50-4077
- Spaceborne radar photography of subarctic landscapes. Vachon, P.W., et al. [1995,eng] 50-4091
- Stability of water flow in glaciers. Szilder, K., et al. [1996,eng] 50-6436
- Temperature evolution of a chemically stratified lake. Spigel, R.H., et al. [1996,eng] 50-6333
- Thermal regime of ice covered Swedish lakes. Bengtsson, L., et al. [1994,eng] 50-5696
- See [also]: Frozen lakes
- Icebreakers**
- Almost forgotten expedition. Maksimova, O., [1995,rus] 50-3803
- Analysis of outer shell wear for ice-going ships. Shemendiuk, G.P., et al. [1996,eng] 50-4467
- Arctic infrastructure—the need for dedicated Arctic research support. Pitenger, R.F., [1996,eng] 50-6676
- Arctic Pilot Project integrated route analysis. Chapter 2. Physical aspects of the route areas. [1981,eng] 50-3558
- Arctic research vessel preliminary design report. University of Alaska. Institute of Marine Science, [1994,eng] 50-5437
- Arktis 1993: report on the field phase with examples of measurements. Brümmer, B., ed. [1993,eng] 50-4945
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Can the Northern Sea Route be profitable. Schwarz, J., [1996,eng] 50-4490
- Canadians wrap-up arctic vessels. [1986,eng] 50-5654
- Demonstration of operational sea-ice monitoring in the Baltic Sea with ERS-1 SAR. Herland, E.A., et al. [1995,eng] 50-1820
- Design of ice-navigating cargo vessels. Kitagawa, H., [1996,eng] 50-4470
- Development of optimum hull forms for icebreaking cargo ships for the Northern Sea Route. Kishi, S., et al. [1996,eng] 50-4473

- Device for pushing broken ice ahead of a ship or the like. Donderi, D.C., [1990,eng] 50-2241
- Diversity of modern antarctic vessels. Mäkinen, E., et al. [1994,eng] 50-4280
- Ecological safety of navigation on the Northern Sea Route. Semanov, G.N., [1996,eng] 50-4437
- Evaluation of double-sided beam and girder constructions tension subject to local ice loads. Barabanov, N.V., et al. [1996,eng] 50-4465
- Experiences of three years of oil transportation in the Russian Arctic with a Western fleet. Niini, M., [1996,eng] 50-4486
- Experimental voyage through Northern Sea Route. Yamaguchi, H., [1996,eng] 50-4425
- Experimental voyage through Northern Sea Route. Yamaguchi, H., et al. [1996,jpn] 50-5874
- Hydrodynamic performance of ship hull forms designed for the NSR cargo ship. Uto, S., et al. [1996,eng] 50-4474
- Ice conditions and navigability of the NSR-vessels: present and future. Schwarz, J., [1996,eng] 50-4491
- Ice impact tests on *Nathaniel B. Palmer*. St. John, J.W., et al. [1995,eng] 50-860
- Ice resistance of three bow forms for the NSR cargo ship. Izumiya, K., et al. [1996,eng] 50-4471
- Ice zipper. Tetrault, M., [1987,eng] 50-2240
- Icebreaker "Erma". Basevich, V., et al. [1994,rus] 50-3237
- Icebreaker agreement. [1992,eng] 50-4413
- Icebreaker transit analysis for a voyage across the Arctic Ocean. Brigham, L.W., [1996,eng] 50-4460
- Icebreakers transit Arctic for global climate studies. [1996,eng] 50-6677
- Icebreakers. Kashtelian, V.I., et al. [1972,rus] 50-387
- Icebreaking patrol vessel *Teshio* 550 G/T type. Kawashima, Y., et al. [1996,jpn] 50-5902
- Identification of ice classes and rules for ships intended to navigate in the Arctic. Karavanov, S.B., et al. [1996,eng] 50-4464
- Influence of cavitation on icebreaker propellers. Walker, D., et al. [1995,eng] 50-200
- Influence of ice conditions on NSR transit sailing. Vefsnmo, S., et al. [1996,eng] 50-4459
- Investigation of ice-resistant coatings used to protect icebreaker hull. Babisev, V.A., et al. [1995,eng] 50-201
- Method to prevent weld zone corrosion in offshore structures. DeGeer, D.D., et al. [1991,eng] 50-1726
- Modelling the release of radioactive waste in the Kara Sea. Timms, S.J., et al. [1995,eng] 50-5059
- Non-contact loads on propellers in ice-blocked flows. Luznik, L., et al. [1995,eng] 50-2941
- Northern Sea Route reconnaissance study: a summary of ice-breaking technology. Sodhi, D.S., [1995,eng] 50-395
- Northern Sea Route: its development and evolving state of operations in the 1990s. Mulherin, N.D., [1996,eng] 50-4960
- Northern Sea Route: future & perspective. Northern Sea Route: future & perspective. Proceedings of INSROP Symposium Tokyo, Oct. 1-6, 1995. [1996,eng] 50-4419
- Planned NSF/UNOLS arctic research vessel for the United States arctic science community. Kristensen, D.H., et al. [1995,eng] 50-6312
- Post-yield strength of icebreaking ship structural members. DesRochers, C.G., et al. [1995,eng] 50-877
- Preliminary study of tankers for year-round transportation of crude oil from Ob Gulf. Tsoi, L.G., et al. [1996,eng] 50-4461
- Project I: natural conditions and ice navigation. Buzuev, A., [1996,eng] 50-4435
- Project II.6.2: Environmental safety of navigation. Tsoi, L.G., et al. [1996,eng] 50-4440
- Project III.11.1: New concepts in removing ice. Jerusalemki, A.V., [1996,eng] 50-4447
- Project III.6.1: Survey of logistics models. Shchelkanov, A.G., et al. [1996,eng] 50-4445
- Radiocological hazard of ship nuclear reactors sunken in the Arctic. Sivintsev, I.U.V., et al. [1996,eng] 50-5676
- Revolution in arctic navigation. Ternovoi, E., [1995,rus] 50-3236
- Salient features of the design of large arctic ships with a restricted draft. Tsoi, L.G., [1996,eng] 50-4431
- Seaborne oil and gas transportation from Northern Russia. Backlund, A., [1996,eng] 50-4487
- Series of model tests in ice of ice-going cargo ships for future traffic in the Northern Sea Route. Ishikawa, S., et al. [1996,eng] 50-4472
- Shipping on the Northern Sea Route. Barabanov, N.V., [1996,eng] 50-4485
- Standardization of corrosion wear of shell plating for ice ships operations. Kulesh, V.A., et al. [1996,eng] 50-4466
- Still the Great Lakes' best icebreaker. [1995,eng] 50-3039
- Study of dynamic effects on icebreaking in 2-dimension: experiment. Usami, A., et al. [1996,eng] 50-4468
- Testing of ships in ice. Ryvlin, A.I.A., et al. [1980,rus] 50-388
- Variation of local pressures during ice-structure interaction. Johnston, M., [1994,eng] 50-376
- Velocity dependence of ice failure load in a 2-dimensional ship model. Adachi, M., et al. [1996,eng] 50-5878
- See [also]: Ice breaking
- Icefalls**
- Impact of potential Tiv tower icing on a nearby proposed expressway. Courtney, F.E., [1993,eng] 50-6664
- Icelead**
- Assessment of rock glacier sliding velocity. Whalley, W.B., et al. [1995,eng] 50-2809

Icequakes

- Biostratigraphic evidence of an Icelandic paleoclimatic oscillation. Rundgren, M., [1995,eng] 50-2017
- Concrete durability in Iceland. Idorn, G.M., [1988,eng] 50-4228
- Degree-day glacier mass balance modelling. Jóhannesson, T., et al. [1995,eng] 50-455
- Dynamics of rock glaciers: data from Tröllaskagi, north Iceland. Whalley, W.B., et al. [1995,eng] 50-4833
- Frontal signals east of Iceland from the GEOSAT altimeter. Robinson, A.R., et al. [1989,eng] 50-4707
- Geologic and hydrogeologic mapping of Iceland with multisensor data. Münzer, U., et al. [1992,eng] 50-617
- Glacial processes, sediments, landforms, and stratigraphy at Myrdalsjökull. Krüger, J., [1994,eng] 50-166
- Glacier variations 1930-1960, 1960-1990, and 1991-1992. Sigurdsson, O., [1993,ice] 50-4773
- Greenland ice core sediments correlated with oceanic sediments. Grönvold, K., et al. [1995,eng] 50-1251
- Iceland glacier drainage and sandar formation. Heim, D., [1992,ger] 50-364
- Icelandic turf-banked terrace geomorphology. Douglas, T.D., et al. [1996,eng] 50-5498
- Icejet: hydro power for Europe. De Jong, D.J., [1995,eng] 50-2969
- Impact of subglacial geothermal activity on glacier meltwater quality. Lawler, D.M., et al. [1996,eng] 50-6087
- Jeeps along the Fjöllum River: handbook of highland travel. Gislason, G.M., ed. [1994,ice] 50-2789
- Late glacial raised beaches and glacier recession in northeast Iceland. Norddahl, H., et al. [1993,eng] 50-4772
- Off-rift and rift-zone paleostresses in northwest Iceland. Gudmundsson, A., et al. [1996,eng] 50-6207
- Origin of the driftwood on the coasts of Iceland: a dendrochronological study. Eggertsson, Ó., [1993,eng] 50-4771
- Paleomagnetism of Icelandic lava piles. Kristjánsson, L., et al. [1995,eng] 50-4948
- Radiocarbon date list VIII: Canada, Greenland, Iceland, and Antarctica. Manley, W.F., ed. et al. [1996,eng] 50-5927
- Rapid isostatic rebound in southwestern Iceland at the end of the last glaciation. Ingólfsson, O., et al. [1995,eng] 50-1802
- Recent drumlins, flutes and lineations at Vestari-Hagafellsjökull, Iceland. Hart, J.K., [1995,eng] 50-1880
- Sea ice off the Icelandic coasts, October 1987-September 1988. [1988,ice] 50-3556
- Sea ice off the Icelandic coasts, October 1988-September 1989. [1990,ice] 50-3557
- Seasonal and annual dynamics of frozen ground in the central highland of Iceland. Thórhallsdóttir, T.E., [1996,eng] 50-5499
- Skógar Tephra, a Younger Dryas marker in North Iceland. Norddahl, H., et al. [1992,eng] 50-2548
- Supraglacial sediment accretion in Icelandic glaciers. Näslund, J.O., et al. [1996,eng] 50-4904
- Tardigrada of the arctic tundra with descriptions of two new species. Maucci, W., [1996,eng] 50-5293
- Temperature conditions in Iceland and the North Atlantic, 1901-1990. Einarsson, M.A., [1993,eng] 50-4770
- Wet snow icing combined with strong wind—field inspections and field measurements. Eliasson, A.J., et al. [1996,eng] 50-5352
- Iceland Sea**
- Arctic Ocean deep water masses in the western Iceland Sea. Buch, E., et al. [1996,eng] 50-5856
- Flux of dense cold overflow water southeast of Iceland. Saunders, P.M., [1996,eng] 50-3145
- Geostrophic circulation of water in the vicinity of the meteorological vessel "M" in March-April 1987. Korotkov, S.V., [1992,rus] 50-1263
- Subtidal and tidal currents in the vicinity of the Iceland-Faeroes front. Allen, J.T., [1995,eng] 50-159
- Iceland—Breiblamerkjökull**
- Fabric signature of subglacial till deformation, Breiblamerkjökull, Iceland. Benn, D.I., [1995,eng] 50-3863
- Iceland—Breiblamerkjökull**
- Ocean bottom trenching by an Icelandic glacier. Björnsson, H., [1996,eng] 50-6252
- Iceland—Brúarjökull**
- Concertina eskers, Brúarjökull, Iceland: an indicator of surge-type glacier behavior. Knudsen, O., [1995,eng] 50-1407
- Iceland—Katla**
- Jökullhláup from Katla in 1918. Tómasson, H., [1996,eng] 50-6268
- Iceland—Myrdalsjökull**
- Climatological significance of moraine ridges in Iceland. Krüger, J., [1995,eng] 50-2858
- Iceland—Torfadalsvatn, Lake**
- Iceland paleoclimatology dynamics from volcanic ash in lacustrine deposits. Björck, S., et al. [1992,eng] 50-2547
- Iceland—Tröllaskagi**
- Supraglacial debris transport over time. Whalley, W.B., et al. [1996,eng] 50-6258
- Iceland—Vatnajökull**
- Subglacial lake burst variations in Iceland. Gudmundsson, M.T., et al. [1995,eng] 50-449
- Icequakes**
- Acoustic tomography of ice cracking and ridging. Rajan, S.D., [1995,eng] 50-6275
- Coupling and propagation of elastic waves in arctic pack ice. Jarvis, S.M., et al. [1994,eng] 50-5178
- Seismic activity of landfast ice. Nikitin, V.A., et al. [1995,eng] 50-188

Iceicles

- Seismo-acoustic remote sensing of ice-mechanical processes in the Arctic. Schmidt, H., et al. [1995,eng] 50-6276
Study of cryoseisms ("frostquakes") in the Sebago Lake region, Maine. Allen, R.P., [1993,eng] 50-5518
Wind-induced ice floe rotation and icequakes north of the Alaskan Beaufort Sea coast. Kozo, T.L., et al. [1996,eng] 50-6508

Iceicles

- Experimental verification of a pendant ice formation model. Szilder, K., et al. [1995,eng] 50-206
Ice accretion in freezing rain. Jones, K.F., [1996,eng] 50-2245
Influence of temperature on microdischarges between ice particles. Coquillat, S., et al. [1996,eng] 50-5385
Insulators in icing conditions: selection and measures for reliability increasing. Sklenicka, V., et al. [1996,eng] 50-5342

Icing

- Atmospheric observing systems and their data management support structure. Stirling, L.M., [1994,eng] 50-3414
Calculating complex forms of pipeline icing. Popov, I.U.A., et al. [1995,rus] 50-3441
Composition for an anti-icing coating. Bochnanov, A.D., et al. [1992,rus] 50-1920
Determination of liquid water altitudes using combined remote sensors. Politovich, M.K., et al. [1995,eng] 50-1414
Device for preventing the icing of supporting structures. Barkhanov, V.N., et al. [1992,rus] 50-1929
Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1996,eng] 50-5161
Interpretation of hydrochemical evidence for meltwater routing at a high arctic glacier. Hodgkins, R., et al. [1995,eng] 50-2432
Study of concrete bridges exposed to deicing salts. Novokshchenov, V., [1989,eng] 50-4225
Technogenic naled formation around the city of Anadyr. Kotov, A.N., [1996,rus] 50-6854
Temporal weather impacts upon exterior intrusion detection systems. Ryerson, C.C., et al. [1995,eng] 50-4544
Testing of radome material and special coatings for North Warning System. Crory, F.E., [1988,eng] 50-761
See [also]: Aircraft icing; Glaze; Ice loads; Power line icing; Road icing; Ship icing

Icing detection

See [also]: Ice detection

Icing load

See [also]: Ice loads

Icing rate

- Icing rate measurements: a key way of estimating ice loads on structures. Laflamme, J.N., [1996,eng] 50-5359
Icing rate meter estimation of transmission line icing. McComber, P., et al. [1996,eng] 50-4031
Icing rate meter, an instrument to evaluate transmission line icing. McComber, P., et al. [1996,eng] 50-5357
Impact of potential TV tower icing on a nearby proposed expressway. Courtney, F.E., [1993,eng] 50-6664
Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1995,eng] 50-2954
Methods to estimate ice accumulations on surface structures. Schaub, W.R., Jr., [1996,eng] 50-5360
Simple model for freezing rain ice loads. Jones, K.F., [1996,eng] 50-5399
See [also]: Ice accretion

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Image processing

- Acquisition and processing of remote sensing data on ore deposits. Guo, H.D., et al. [1993,chi] 50-2380
Algorithm for radiometric image mapping of global snow cover. Hall, D.K., et al. [1995,eng] 50-1809
Algorithm to enhance sea ice concentration estimates from radiometric brightness temperatures. St. Germain, K.M., et al. [1992,eng] 50-3564
Analysis of coastal ice cover using ERS-1 SAR data. Leshkevich, G., et al. [1995,eng] 50-1822
Application of DTM to extraction of snowcover information from NOAA/AVHRR image. Feng, X.Z., et al. [1995,chi] 50-3983
Application of subspace method in snow recognition. Liu, Z.K., et al. [1990,chi] 50-6659
Automated approach to the sea-ice motion estimation. Mocetuma Flores, M., et al. [1994,eng] 50-5175
Automatic ice motion retrieval from ERS-1 SAR images using the optical flow method. Sun, Y., [1996,eng] 50-5824
Avalanche hazard mapping with satellite data and a digital elevation model. Gruber, U., et al. [1995,eng] 50-2345
Background classification for infrared seekers. Berger, R.H., [1991,eng] 50-765
Barents Sea ice concentration from SSM/I data. Smith, D.M., [1996,eng] 50-6695
Characterizing multitemporal alpine snowmelt patterns for ecological inferences. Allen, T.R., et al. [1993,eng] 50-1447
Classification of arctic cloud and sea ice features in multi-spectral satellite data. Key, J.R., [1994,eng] 50-4357
Comparison of second-order classifiers for SAR sea ice discrimination. Barber, D.G., et al. [1993,eng] 50-1446
Demonstration of operational sea-ice monitoring in the Baltic Sea with ERS-1 SAR. Herland, E.A., et al. [1995,eng] 50-1820
Detection of radar targets in sea-ice clutter. Lin, C.P., et al. [1996,eng] 50-5895

- Determination of snowcovered area by satellite SAR imagery. Seglenieks, F., et al. [1995,eng] 50-3106
Development of environmental database for the Russian Arctic. Kaitsala, S., [1995,eng] 50-3178
Diffusive coefficients of arctic sea-ice motion estimate through SAR. Kakuta, S., et al. [1996,eng] 50-5893
Digital enhancement of ground probing radar data. Rees, H.V., et al. [1992,eng] 50-666
Digital terrain information and its application in Nagqu area of Xizang. Lu, A.X., et al. [1995,chi] 50-3985
Digital terrain model of topographic obstruction to solar radiation in the Tian Shan. Li, X., et al. [1995,chi] 50-3997
Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al. [1996,eng] 50-4766

- Distributed snow process modeling: an image processing approach. Davis, R.E., et al. [1995,eng] 50-3108
Dynamic monitoring information system for snow of remote sensing imagery. Liu, Z.K., et al. [1990,chi] 50-6657
ERS-1 SAR wind vector data from the Norwegian continental shelf. Wackerman, C.C., et al. [1994,eng] 50-1511
Estimation of daily evapotranspiration from one time-of-day thermal infrared temperature. Li, F.Q., et al. [1990,chi] 50-6662

- Estimation of surface albedo from NOAA AVHRR data in high latitudes. Laine, V., et al. [1996,eng] 50-5870
Expert system for automated interpretation of ground penetrating radar data. Lee, S., et al. [1992,eng] 50-62
Extraction of deformation descriptors from spaceborne radar ice motion products. Li, S., et al. [1995,eng] 50-1812
Fuzzy classification of earth terrain covers using complex polarimetric SAR data. Du, L., et al. [1996,eng] 50-4018
Fuzzy region segmentation of snow remote sensing imagery. Liu, Z.K., et al. [1990,chi] 50-6660
Glaciological studies in the high central Andes using digital processing of satellite images. Llorens, R.E., et al. [1995,eng] 50-3339

- Grain structure of first year sea ice in a Greenland fjord. Johnston, M., et al. [1995,eng] 50-2965
Greenland Sea ice variations recorded by spaceborne photography. Mitchelson-Jacob, E.G., [1996,eng] 50-4292
Ground penetrating radar detection of a buried metallic object. O'Neill, K., et al. [1996,eng] 50-4038
Heat flux from leads in pack ice from a Landsat TM image. Lindsay, R.W., [1994,eng] 50-5179
High spatial and temporal resolution database for synthetic scene generation and validation. Bleiweiss, M.P., et al. [1995,eng] 50-3756
Ice sheet motion and topography from radar interferometry. Kwok, R., et al. [1996,eng] 50-2702
Iceberg detection using ERS-1 synthetic aperture radar. Willis, C.J., et al. [1996,eng] 50-5225
IceNav shipboard radar integration. Marton, C., [1995,eng] 50-4042

- Imaging techniques for mapping the surface velocities of a dense snow avalanche. Granada, F., et al. [1995,chi] 50-4651
Improved fuzzy clustering algorithm for snow recognition. Liu, Z.K., et al. [1990,chi] 50-6658
Improved segmentation of sea ice in radiometric imagery. Simpson, J.J., et al. [1995,eng] 50-3494
Information states in sea ice imagery. Kerman, B.R., [1995,eng] 50-6311
Intercomparison of snow retrieval algorithms by means of spaceborne microwave radiometry. Rott, H., et al. [1995,eng] 50-4176
Interface location and flow visualization in water-ice systems. Elkouh, N., et al. [1996,eng] 50-6459

- LANDSAT automated mapping of mountain snow cover. Rosenthal, W., et al. [1996,eng] 50-3312
Least average residual algorithm (LARA) for tracking the motion of arctic sea ice. Peddada, S.D., et al. [1996,eng] 50-5686
Mapping alpine snow and ice using Landsat TM and SAR imagery at Wapta icefield. Brugman, M.M., et al. [1996,eng] 50-5545

- Mapping snow cover during the BOREAS winter experiment. Hall, D.K., et al. [1995,eng] 50-3105
Mapping the architecture of glaciofluvial sediments with three-dimensional georadar. Beres, M., et al. [1995,eng] 50-2529
Measurement of ice-sheet topography using satellite-radar interferometry. Joughin, I., et al. [1996,eng] 50-4887
Measuring snow particle size from video radar images. Hatanaka, M., et al. [1995,eng] 50-2579
Measuring the density of snow particles and snowfall rate. Muramoto, K.I., et al. [1995,eng] 50-4573
Microwave imaging of Labrador Sea thin sea ice. Collins, M.J., et al. [1996,eng] 50-2701
Model of predicting snow disaster using NOAA/AVHRR data in Nagqu area of Xizang. Lu, A.X., et al. [1995,chi] 50-3987
Monitoring snow cover on the Tibetan Plateau using passive microwave satellite data. Robinson, D.A., et al. [1995,eng] 50-4180

- Operational use of ERS-1 SAR images in the Canadian ice monitoring programme. Shokr, M.E., et al. [1996,eng] 50-4017

- Optical processing of satellite images for land use planning in north central China. Liu, J.H., [1995,chi] 50-3996
Oscillatory behavior in arctic sea ice concentrations. Gloersen, P., et al. [1996,eng] 50-4300

- Pixel-scale ground snow survey for passive microwave study of the arctic snow cover. Woo, M.K., et al. [1995,eng] 50-3110
Radar image tracking and its use in a short-term snowfall prediction system. Neill, P.P., et al. [1993,eng] 50-5248
Reduction of weather effects in the calculation for sea-ice concentration with the DMSP SSM/I. Cavalieri, D.J., et al. [1995,eng] 50-1867
Remote sensing of East Greenland mafic intrusion lithology. Birnie, R.W., et al. [1989,eng] 50-3935
Retrieval of thin ice thickness from multifrequency polarimetric SAR data. Kwok, R., et al. [1995,eng] 50-349
SAR observations of arctic freeze-up compared to SSM/I during ARCTIC91. Petersson, M.I., et al. [1996,eng] 50-6694
Satellite imagery of the onset of streaming flow of ice streams C and D, West Antarctica. Hodge, S.M., et al. [1996,eng] 50-4301

- Satellite mapping and monitoring of sea ice. Smith, D.M., et al. [1994,eng] 50-5197
Satellite radar observations of Beaufort Sea autumn freeze-up. Winebrenner, D.P., et al. [1996,eng] 50-6218
Sea ice concentrations derived from satellite microwave imagery. Lomax, A.S., et al. [1995,eng] 50-1244
Sea ice detection at Shova Station from MOS-1 mosaics. Ishida, K., et al. [1996,jpn] 50-5892
Sea ice radar backscatter and the fusion of active and passive microwave data. Beaven, S.G., [1995,eng] 50-4171
Sea-ice velocity fields estimation on Ross Sea with NOAA-AVHRR. Mocetuma Flores, M., et al. [1995,eng] 50-983
Smart Weapons Operability Enhancement (SWOE) Joint Test and Evaluation (JT&E) Program. Final report. Welsh, J.P., [1994,eng] 50-2453
Smart weapons operability enhancement synthetic scene generation process. Koenig, G.G., et al. [1995,eng] 50-3755
Snow monitoring from satellite data in Xizang. Feng, X.Z., et al. [1995,chi] 50-3986
Some results from geocoding and calibration of ERS-1 SAR FD images in mountainous areas. Johnsen, H., et al. [1995,eng] 50-3717

- Space imagery as a basis for modeling the dynamics of thermokarst lake plains. Viktorov, A.S., [1996,eng] 50-6647
Spaceborne photography of Spitsbergen marginal ice zone. Kergomard, C., [1989,chi] 50-5029
Spaceborne radar imagery for ice reporting in the Baltic Sea. Hakansson, B., et al. [1995,eng] 50-1821
Spaceborne radar photography of subarctic landscapes. Vachon, P.W., et al. [1995,eng] 50-4091
Statistical validation of IR smart weapons scene generation. Welsh, J.P., et al. [1995,eng] 50-3754
Studies on the method of image processing and analysis of lake ice and snow. Li, W.J., et al. [1995,chi] 50-3995
Studies on the methods of extracting snow information from NOAA/AVHRR image. Li, W.J., et al. [1995,chi] 50-3982
Study of extracting remote sensing information of snow disaster in Nagqu area of Xizang. Li, Z., et al. [1995,chi] 50-3981
Study on snow disaster monitoring using remote sensing in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3978
Study on the remote sensing information model of soil moisture. Ma, A.N., et al. [1990,chi] 50-6661
Synthetic analysis method of snow depth in Nagqu area of Xizang. Zeng, Q.Z., et al. [1995,chi] 50-3984
Synthetic scene generation process for smart weapons. Welsh, J.P., et al. [1995,eng] 50-3834
Universal multifractal scaling of synthetic aperture radar images of sea-ice. Falco, T., et al. [1996,eng] 50-5685
Use of SAR satellite imagery to measure active layer moisture contents in arctic Alaska. Kane, D.L., et al. [1994,eng] 50-5695

- Using computers for MSS image analysis in land use classification. Cheng, X.J., et al. [1991,chi] 50-5111
Wind events compared with polynya area estimates derived from SSM/I data. Markus, T., et al. [1993,eng] 50-5596

Imaging

- 1993 biennial report. University of Washington. College of Ocean & Fisheries Science. Applied Physics Laboratory, [1993,eng] 50-5203
Aircraft observations of ice formation over the Japan Sea. Asuma, Y., et al. [1995,eng] 50-6716
Application of synthetic aperture radar (SAR) imagery on antarctic glaciology. Takahashi, A., et al. [1995,jpn] 50-4553
Arctic and Antarctic Research Center: support for research during 1994-1995. Whittier, R.H., et al. [1995,eng] 50-6502
Characteristics of surface roughness associated with leading-edge ice accretion. Shin, J.W., [1996,eng] 50-4407
Demonstration of seasonal changes in the territory of Finland using multi-temporal NOAA-AVHRR data. Andersson, K., [1992,eng] 50-618
Design of an Airborne Imaging Microwave Radiometer. Paul, J.L., et al. [1992,eng] 50-3570
Detection and monitoring of H₂O and CO₂ ice clouds on Mars. Bell, J.F., III, et al. [1996,eng] 50-5195
Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1996,eng] 50-5810
Doppler spectroscopy of antarctic wind velocities. Nakajima, H., et al. [1995,eng] 50-3811
Electron cryo-microscopy of graphite in amorphous ice. Bötcher, B., [1995,eng] 50-1647
Estimation of biomass and other characteristics of boreal forest. Häme, T., et al. [1994,eng] 50-3228
GPS geodetic activities in the 1994-95 antarctic campaign. Capra, A., et al. [1995,eng] 50-4393

Impact

Inflatable structures

- Hoods, mists, frosts, and ice caps at the poles of Mars. Dollfus, A., et al. [1996.eng] 50-5194
- Ice velocities near a relict flow feature on Siple Dome. Jacobel, R.W., et al. [1994.eng] 50-1891
- Interference fringes from Bering Sea sonar images. Huggert, Q.J., et al. [1992.eng] 50-4250
- Magnetic resonance imaging of frozen plant tissues. Gamble, G.R., [1994.eng] 50-3360
- Magnetic resonance imaging of gel phase transformations. Hong, J.S., et al. [1995.eng] 50-2739
- Measuring the density of snow particles and snowfall rate. Muramoto, K.I., et al. [1995.eng] 50-4573
- Observation of slip transmission through a grain boundary in ice. Jia, K., et al. [1996.eng] 50-5297
- Polarimetric detection of objects buried in snowpack by a synthetic aperture FM-CW radar. Yamaguchi, Y., et al. [1996.eng] 50-2700
- POST: Polar Stratospheric Telescope. Bely, P.Y., et al. [1995.eng] 50-2527
- Probing ice sheets with imaging radar. Raney, R.K., [1993.eng] 50-3033
- Profiles of particle characteristics in blowing snow. Naaim, M., et al. [1995.eng] 50-1062
- Radar survey of French Alps snow cover. Bernier, M., et al. [1996.fre] 50-5542
- Refractive-index measurements of natural air-hydrate crystals in an antarctic ice sheet. Uchida, T., et al. [1995.eng] 50-977
- Snow and ice characteristics of the Bellingshausen Sea, during the spring melt. Aldworth, E., [1995.eng] 50-1022
- Snow crystal imaging using scanning electron microscopy: I. Precipitated snow. Rango, A., et al. [1996.eng] 50-4566
- Snow crystal imaging using scanning electron microscopy: II. Metamorphosed snow. Rango, A., et al. [1996.eng] 50-4567
- SO₂ distributions on Io. Sartoretto, P., et al. [1996.eng] 50-6529
- Solar halos and sun dogs. Glassner, A., [1996.eng] 50-4499
- SSM/I mapped experimental environmental image products. Donahue, D.R., et al. [1992.eng] 50-3567
- Submersible remote controlled vehicles for glacier-ocean-sediment study. Dowdeswell, J.A., et al. [1996.eng] 50-4902
- User capabilities of the Defense Meteorological Satellite Program. Scharfen, G.R., et al. [1994.eng] 50-4792
- X-ray topographic study of ice crystal dislocations. Liu, F.P., et al. [1992.eng] 50-5958
- Impact**
- Hibernia edges forward as bidding starts. Fox, C., [1988.eng] 50-4969
- On a sampling error in hailpad measurements. Wirth, E., et al. [1983.eng] 50-4638
- Simulation of wet-snow accretion by axial growth on a transmission line conductor. Poots, G., et al. [1995.eng] 50-2349
- Singularities in simulation of ice sheet-solid impact regime. Darr, D.G., et al. [1995.eng] 50-2163
- Impact strength**
- Concrete TLP to sit out Barents bergs. Cottrill, A., [1990.eng] 50-3866
- Dynamic impact between a viscoelastic ice floe and a rigid structure. Morland, L.W., [1996.eng] 50-3824
- Environmental loading studies for the CSA Offshore Structures Code. Allyn, N., et al. [1995.eng] 50-1411
- Ice force and scour instrumentation for the White River, Vermont. Zabilansky, L.J., [1996.eng] 50-6073
- Mechanical behavior of 18 Ni 200 grade maraging steel at cryogenic temperatures. Wagner, J.A., [1986.eng] 50-4101
- Offshore development in iceberg-infested waters with the use of a concrete protective barrier. Broughton, P., et al. [1991.eng] 50-1731
- Structural failure of the *Titanic*. Garzke, W.H., Jr., et al. [1994.eng] 50-5177
- Two-dimensional dynamic simulation of solid fracture. Part II: examples. Potapov, A.V., et al. [1995.eng] 50-1097
- Use of layered theory in the design and evaluation of pavement systems. Hicks, R.G., et al. [1982.eng] 50-5914
- Impact tests**
- Cosmochemical significance of hydrocarbon reaction to frozen benzene impact. Mimura, K., et al. [1995.eng] 50-631
- Ejection velocity of ice impact fragments. Arakawa, M., et al. [1995.eng] 50-2153
- Field experiments on snow avalanche mechanics. Schweizer, J., et al. [1995.eng] 50-1056
- Fracture of fiber reinforced concrete under impact. Bantia, N., et al. [1995.eng] 50-2691
- Full scale impact test of PC rock-shed with shock absorbing system. Sato, M., et al. [1995.eng] 50-2688
- Full scale test on impact resistance of PC girder. Sato, M., et al. [1995.eng] 50-2690
- Hopkinson bar perforation of laminated composite. Nwosu, S.N., et al. [1995.eng] 50-2466
- Impact fracturing of frozen ground and rocks. Fedulov, A.I., et al. [1996.eng] 50-4740
- Impact ice load acting on flat plate due to wave action. Hanada, M., et al. [1996.jp] 50-5880
- Indentation pressure in ice/vertical structure interaction. Takeuchi, T., et al. [1995.eng] 50-2738
- Light flash and ionization from hypervelocity impacts on ice. Burchell, M.J., et al. [1996.eng] 50-6530
- Low carbon steels for pressure vessels subject to low temperatures. Haney, F., et al. [1996.eng] 50-5956
- Manufacture and installation of duplex stainless steel line pipe for arctic application. Noble, D.N., [1996.eng] 50-5957
- Mass dependence of energy loss in collisions of icy spheres: an experimental study. Dilley, J., et al. [1996.eng] 50-5196
- Measurements on avalanche dynamics: a new installation. Rammer, L., [1995.eng] 50-4674
- Sea ice data report. Kovacs, A., et al. [1970.eng] 50-3854
- Shock absorption using reinforced concrete slab. Mikami, H., et al. [1995.eng] 50-2689
- Triaxial experiments on iceberg and glacier ice. Gagnon, R.E., et al. [1995.eng] 50-1874
- Winter tests of artillery firing into Eagle River Flats, Fort Richardson, Alaska. Collins, C.M., et al. [1995.eng] 50-391
- Impurities**
- 130 years deposition record of sulfate, nitrate and chloride from a high-alpine glacier. Döschner, A., et al. [1995.eng] 50-4079
- Analysis of return drilling fluids in Prudhoe Bay oil wells. Fambrough, J.D., et al. [1991.eng] 50-1714
- Calculation of spectral albedo for a melt pond. Makshtas, A., et al. [1995.eng] 50-2066
- Cation trace analysis of snow and firn samples from high-alpine sites by ion chromatography. Döschner, A., et al. [1995.eng] 50-594
- Cations within glacier ice, snow and river water at Xidatan coal mine. Huang, C.L., et al. [1995.chi] 50-5641
- Contributions of snow and fog to Greenland ice sheet ionic variations. Bergin, M.H., et al. [1995.eng] 50-586
- Diatoms in South Pole ice: implications for eolian contamination of Sirius Group deposits. Kellogg, D.E., et al. [1996.eng] 50-3387
- Diffusion of helium through ice. Davy, J.G., et al. [1970.eng] 50-5748
- Distribution of hydrogen peroxide in surface snow over antarctic ice sheet. Kamiyama, K., et al. [1996.eng] 50-3452
- Electrical conductivity measurements in ice. Sugiyama, K., et al. [1995.eng] 50-2575
- Eolian dust in deep sea sediments from arctic pack ice. Pirman, S., et al. [1989.eng] 50-5408
- Estimates of Greenland atmospheric impurity variations during deglaciation. Alley, R.B., et al. [1995.eng] 50-1872
- Freezing point depression by common salts: implications for corrosion in cold climates. Brass, G.W., [1996.eng] 50-5951
- Geochemistry of volcanic ash in the ice near Brimstone Peak. Faure, G., et al. [1994.eng] 50-1885
- High-resolution ammonium ice core record covering a complete glacial-interglacial cycle. Fuhrer, K., et al. [1996.eng] 50-3448
- High-resolution mass spectrometry for ice core trace element determination. Shimamura, T., et al. [1995.eng] 50-2576
- Hydrogen sulfide forecasting techniques for the Kuparuk River. Field, Frazer, L.C., et al. [1991.eng] 50-1729
- Ice wharves sampling and analysis plan for ocean dumping. McMurdo Station, Antarctica. Crockett, A.B., [1993.eng] 50-3929
- Initial snow chemistry survey of the Mogollon Rim in Arizona. Barbaris, B., et al. [1996.eng] 50-6711
- Internal melt figures in Japanese pond ice and microparticles in antarctic ice cores. Higashi, A., [1996.jp] 50-4931
- Mercury and plastic in suspended Arctic Ocean sediment. Joiris, C.R., et al. [1995.eng] 50-1971
- Mineral dust record in a high altitude alpine glacier (Colle Gnifetti, Swiss Alps). Wagenbach, D., et al. [1989.eng] 50-5411
- Movement of fuel spills in the Ross Ice Shelf. Tumeo, M.A., et al. [1994.eng] 50-5216
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995.eng] 50-1866
- Polar ice stratigraphy from laser-light scattering: scattering from ice. Ram, M., et al. [1995.eng] 50-3098
- Pollution of natural ice in the Arctic and its indications. Ivanov, A.V., [1989.rus] 50-2301
- Proton-ordered ice structures at zero pressure. A quantum-mechanical investigation. Pisani, C., et al. [1996.eng] 50-5935
- Reflection of weather conditions in the chemistry of horizontal fog/cloud precipitation. Škvarčina, J., et al. [1991.eng] 50-3522
- Report on heavy metals. Mel'nikov, S.A., [1991.eng] 50-3419
- Solid phase extraction of nitroaromatics from water. Jenkins, T.F., et al. [1995.eng] 50-1977
- Source of summer arctic atmospheric aerosols. Maenhaut, W., et al. [1996.eng] 50-4321
- Stratigraphic detection of Greenland ice sheet chemical changes. Wolff, E.W., et al. [1995.eng] 50-584
- System for recovery of oil from snow and ice surfaces. Aiken, L.B., [1995.eng] 50-3473
- Use of acrolein as a hydrogen sulfide scavenger in multiphase production. Howell, J.J., et al. [1991.eng] 50-1704
- See [also]: Gas inclusions; Snow impurities
- Indexes (radians)**
- Alaskan tundra sedge response to fertilizer treatment. Shaver, G.R., et al. [1995.eng] 50-1469
- Alpine glacial advances derived from summer air temperature records. Bray, J.R., [1982.eng] 50-3380
- Comparison of two techniques for R-value calculation, using winter in-situ data. Flanders, S.N., et al. [1995.eng] 50-1979
- Controls on glacier surging in Svalbard. Hamilton, G.S., et al. [1996.eng] 50-4900
- Danger by the numbers—meaningful cold weather indicators. Shacham, M., et al. [1995.eng] 50-1646
- Determination of snowmelt factor in the Himalayan region. Singh, P., et al. [1996.eng] 50-5705
- Differences in the duration of snow cover on Scottish ski-slopes between mild and cold winters. Harrison, S.J., [1993.eng] 50-3014
- Estimating snowmelt runoff erosion indices for Canada. Hayhoe, H.N., et al. [1995.eng] 50-967
- Estimation of ice hydrometeor types and shapes from radar polarization measurements. Matrosov, S.Y., et al. [1995.eng] 50-3609
- Feasibility of infrared sensing of Martian cloud and surface ices. Johnson, B.R., et al. [1996.eng] 50-3865
- Granulometric investigations of loess profiles in Hungary. Kis, É., [1995.eng] 50-1039
- Hail in southwestern France. I: Hailfall characteristics and hail-storm environment. Dessens, J., [1986.eng] 50-4911
- Light scattering by hexagonal ice prisms. 1. Small scattering angles. Petrushin, A.G., [1994.eng] 50-2709
- Meaningful wind chill indicators derived from heat transfer principles. Brauner, N., et al. [1995.eng] 50-1552
- New formulation for the Bowen ratio over saturated surfaces. Andreas, E.L., et al. [1996.eng] 50-6570
- Radioecological hazard of ship nuclear reactors sunken in the Arctic. Sivintsev, I.U.V., et al. [1996.eng] 50-5676
- Refractive index of ice in the 1.4-7.8-μm spectral range. Gosse, S., et al. [1995.eng] 50-3358
- Refractive index of vapor-deposited ice. Brown, D.E., et al. [1996.eng] 50-5300
- Response of a research aircraft to icing and evaluation of severity indices. Politovich, M.K., [1996.eng] 50-4406
- Runoff index values for frozen soil areas of the Pacific Northwest. McCool, D.K., et al. [1995.eng] 50-3525
- Simple relationship between the properties of isotopic water. Vedamuthu, M., et al. [1996.eng] 50-4184
- Snowmelt modelling by combining air temperature and a distributed radiation index. Cazorzi, F., et al. [1996.eng] 50-5689
- Temporal analysis of ERS-1 SAR backscatter for hydrology applications. Crevier, Y., et al. [1996.eng] 50-5543
- Thermal radiation of water from 0° to 75°C. pt.3. Aivazian, G.M., [1996.eng] 50-5192
- Tilting at wind chills. Horstmeier, S., [1995.eng] 50-1645
- Wind chill. Kalkstein, L.S., [1996.eng] 50-5002
- India**
- Comments on paper by Dey et al. Ropelewski, C.F., et al. [1984.eng] 50-4916
- Empirical study on Nimbus-7 snow mass and Indian summer monsoon rainfall. Kripalani, R.H., et al. [1996.eng] 50-6226
- Himalayan summer snow cover and withdrawal of the Indian summer monsoon. Dey, B., et al. [1985.eng] 50-4970
- Ice problems in planning and operation of hydro power plants. Sharma, H.R., [1993.eng] 50-2335
- Joint probability analysis for design storm evaluation. Kaur, S., et al. [1993.eng] 50-223
- Review of design storm and flood studies for Salal Dam in Chenab basin. Rao, P.K., et al. [1993.eng] 50-234
- India—Himalaya Mountains**
- Determination of snowmelt factor in the Himalayan region. Singh, P., et al. [1996.eng] 50-5705
- Factors controlling suspended sediment transport in Himalayan glacier meltwaters. Hasnain, S.I., [1996.eng] 50-5688
- Topographical influence on Himalayan snow cover distribution. Singh, P., et al. [1995.eng] 50-4012
- India—Ladakh**
- Ladakh: an update on natural resources. Dhar, U., et al. [1994.eng] 50-5423
- India—Sikkim**
- Use of satellite data for river basin snow cover surveys. Krishna, A.P., [1996.eng] 50-4015
- Indicating instruments**
- Instrument systems for studying the structure of frozen ground during its deformation. Erbiagin, I.F., [1996.rus] 50-6836
- Radiation exposure rate over the antarctic ice sheet. Nakajima, T., et al. [1995.eng] 50-3416
- See [also]: Monitors
- Indices**
- See [also]: Permafrost indicators
- Indoor climates**
- Microclimate of agricultural buildings—1. Bodrov, V.I., [1995.rus] 50-3442
- Moisture conditions and control in buildings in Fairbanks, Alaska. Adkins, R., [1996.eng] 50-6138
- Industrial buildings**
- Analysis of energy balance and technical progress in the non-ferrous metallurgy industry. Panin, A.P., et al. [1992.rus] 50-713
- Characteristics of forecasting energy consumption in the mining industry. Kuznetsov, N.M., [1992.rus] 50-714
- Industrial development**
- See [also]: Economic development
- Infiltration**
- See [also]: Permeability; Seepage
- Inflatable structures**
- Avalanche Balloon System (ABS): for or against? Sivardière, F., et al. [1995.fre] 50-2586
- Construction activities inside of air structures protected from the arctic environment. Mangus, A.R., [1991.eng] 50-1730
- Experimental investigations on the effectiveness of avalanche balloons. Tschirky, F., et al. [1995.eng] 50-4686
- Investigation into ice detection parameters for turboprop aircraft. Render, P.M., et al. [1996.eng] 50-4218

Infrared equipment

Infrared equipment

- Method and system for detecting potential icy conditions on roads. Rendon, E., [1995,eng] 50-3461

Infrared mapping

- Data filtering for thermal mapping of road surface temperatures. Shao, J., et al. [1995,eng] 50-775

Infrared photography

- Comparison of infrared radiometers used to gather background signature data. Berger, R.H., et al. [1995,eng] 50-2474
High spatial and temporal resolution database for synthetic scene generation and validation. Bleiweiss, M.P., et al. [1995,eng] 50-3756
Sea ice concentrations derived from satellite microwave imagery. Lomax, A.S., et al. [1995,eng] 50-1244
Smart Weapons Operability Enhancement (SWOE) Joint Test and Evaluation (JT&E) Program. Final report. Welsh, J.P., [1994,eng] 50-2453
Smart weapons operability enhancement synthetic scene generation process. Koenig, G.G., et al. [1995,eng] 50-3755
Statistical validation of IR smart weapons scene generation. Welsh, J.P., et al. [1995,eng] 50-3754
Synthetic scene generation process for smart weapons. Welsh, J.P., et al. [1995,eng] 50-3834

Infrared radiation

- Airborne measurements of stratospheric constituents over the Arctic in the winter of 1989. Mankin, W.G., et al. [1990,eng] 50-6006
Cirrus infrared parameters and shortwave reflectance relations from observations. Spinhrne, J.D., et al. [1995,eng] 50-5162
Complex refractive indices in the infrared of nitric acid trihydrate aerosols. Richwine, L.J., et al. [1995,eng] 50-1188
Effect of sea ice frost flowers on infrared surface observations. Martin, S., et al. [1996,eng] 50-5858
Ice plate absorption of infrared radiation. Popov, A.A., et al. [1994,eng] 50-1284
Infrared absorption coefficients of gaseous chlorine nitrate at 296 K. Tuzson, E.C., et al. [1989,eng] 50-4709
Infrared remote sensing of snow and quartz surfaces. Wald, A.E., [1994,eng] 50-692
Microwave radiometry for monitoring the diverse cloudiness regimes on Earth: a review. Kaisaros, K.B., [1992,eng] 50-227
Radiation frost susceptibility and the association between sky exposure and leaf size. Jordan, D.N., et al. [1995,eng] 50-2132
Radiative properties of cirrus clouds derived from surface interferometric measurements. Beck, G.H., et al. [1996,eng] 50-6569
Spectra of nitrogen component of ices in cosmic dust. Whittet, D.C.B., et al. [1996,eng] 50-6210
Study of H₂O contamination on a cooled optical surface. Guo, Q., et al. [1995,eng] 50-6527
Surface features of interstellar ice. McCoustra, M., et al. [1996,eng] 50-5244
Titan's surface: composition and variability from the near-infrared albedo. Coustenis, A., et al. [1995,eng] 50-2031

Infrared reconnaissance

- Archive of digital data from the Defense Meteorological Satellite Program (DMSP). Kroehl, H.W., et al. [1994,eng] 50-5076
Background classification for infrared seekers. Berger, R.H., [1991,eng] 50-765
Barents Sea ice concentration from SSM/I data. Smith, D.M., [1996,eng] 50-6695
Comparison of infrared radiometers used to gather background signature data. Berger, R.H., et al. [1995,eng] 50-2474
Detection and prediction of hail with Meteosat data. Messmer, B., et al. [1995,ger] 50-2539
Environmentally caused variation in exterior intrusion detection. Peck, L., [1995,eng] 50-888
High spatial and temporal resolution database for synthetic scene generation and validation. Bleiweiss, M.P., et al. [1995,eng] 50-3756
POST: Polar Stratospheric Telescope. Bely, P.Y., et al. [1995,eng] 50-2527
Smart Weapons Operability Enhancement (SWOE) Joint Test and Evaluation (JT&E) Program. Final report. Welsh, J.P., [1994,eng] 50-2453
Smart weapons operability enhancement synthetic scene generation process. Koenig, G.G., et al. [1995,eng] 50-3755
Snow scavenging effects on large-area smoke screens. Slot, J.R., et al. [1991,eng] 50-764
Snow scavenging on the winter battlefield. Slot, J.R., et al. [1990,eng] 50-735
Statistical validation of IR smart weapons scene generation. Welsh, J.P., et al. [1995,eng] 50-3754
Surface temperature from ERS-1 ATSR infrared thermal satellite data in polar regions. Stroeve, J., et al. [1996,eng] 50-6568
Synthetic scene generation process for smart weapons. Welsh, J.P., et al. [1995,eng] 50-3834
Video monitoring of atmospheric icing. Wareing, J.B., et al. [1995,eng] 50-204
- Infrared spectroscopy**
Adsorption and ionization of HCl on an ice surface. Banham, S.F., et al. [1996,eng] 50-5940
Adsorption and photochemistry of dinitrogen tetroxide on low temperature ice layers. Rieley, H., et al. [1996,eng] 50-4295
Compression of ice to 210 gigapascals. Goncharov, A.F., et al. [1996,eng] 50-5445

- Condensation of cometary ice analogs. Patnaik, A., et al. [1996,eng] 50-6222
Feasibility of infrared sensing of Martian cloud and surface ices. Johnson, B.R., et al. [1996,eng] 50-3865
Formation of condensates on dust in interstellar clouds. Duley, W.W., et al. [1995,eng] 50-3290
Freeze/thaw treatment on waste activated sludge: a FTIR spectroscopic study. Hong, S.G., et al. [1995,eng] 50-1568
Infrared measurement of arctic atmospheric chemical species. Wetzel, G., et al. [1995,eng] 50-2115
Infrared spectroscopy of organics of planetological interest at low temperatures. Khanna, R.K., [1995,eng] 50-656
Ion irradiation of astrophysical ices. Strazzulla, G., et al. [1995,eng] 50-3022
Laboratory infrared spectra (2.3-23 μm) of SO₂ phases: applications to Io surface analysis. Nash, D.B., et al. [1995,eng] 50-1463
Laboratory simulation of polar stratospheric cloud formation. Iraci, L.T., et al. [1995,eng] 50-1333
Low brightness temperatures of Martian polar caps: CO₂ clouds or low surface emissivity? Forget, F., et al. [1995,eng] 50-2120
Near-infrared absorption coefficients of solid nitrogen as a function of temperature. Tryka, K.A., et al. [1995,eng] 50-1078
Observation of Fano interference in high-pressure ice VII. Aoki, K., et al. [1996,eng] 50-3337
Observations of molecular ices. Whittet, D.C.B., [1993,eng] 50-3363
Organic compounds produced by photolysis of simulated cometary ices. Bernstein, M.P., et al. [1995,eng] 50-2724
Production and chemical analysis of cometary ice tholins. McDonald, G.D., et al. [1996,eng] 50-5833
Radiation chemistry of ices of planetological interest at low temperature. Strazzulla, G., [1995,eng] 50-654
Refractive index of ice in the 1.4-7.8-μm spectral range. Gosse, S., et al. [1995,eng] 50-3358
Simulation of extraterrestrial ice radiation absorption properties. Schutte, W.A., et al. [1995,eng] 50-3023
Spectra of mixed ices on Io. Dahmani, R., et al. [1996,eng] 50-6071
Spectrometry of atmospheric emission over the South Pole. Van Allen, R., et al. [1996,eng] 50-4328
Spectropolarimetry of the 3 micron ice feature toward the Becklin-Neugebauer object. Hough, J.H., et al. [1996,eng] 50-5504
Spectroscopic study of heavy ozone isotopes in the arctic atmosphere. Meier, A., et al. [1996,eng] 50-3550
Spectroscopy of deuterium oxide ice adsorbed onto a hydrocarbon. Engquist, I., et al. [1995,eng] 50-1855
Spectroscopy of deuterium oxide ice desorption and substrate wettability. Engquist, I., et al. [1995,eng] 50-1570
Study of ice spectra in cosmic dust. Brooke, T.Y., et al. [1996,eng] 50-3964

Inlets

See [also]: Water intakes

Insolation

- Climatic changes in Northern Europe. Heino, R., et al. [1994,eng] 50-3183
Computer network database for paleoclimatological studies. Roof, S.R., et al. [1996,eng] 50-5712
Corn snow—today's skiing, tomorrow's meltwater. Colbeck, S.C., [1996,eng] 50-4758
Digital terrain model of topographic obstruction to solar radiation in the Tian Shan. Li, X., et al. [1995,chi] 50-3997
Disposition of solar radiation in sea ice and the upper ocean. Ebert, E.E., et al. [1995,eng] 50-572
Effect of microclimate on road superstructures. Final report. Dysli, M., et al. [1986,fre] 50-3320
Effects of solar radiation variations on ice age initiation. Ledley, T.S., et al. [1995,eng] 50-1254
European soil thermal contraction related to ice sheet dynamics. van Vliet-Lanoë, B., [1996,fre] 50-6340
Heat balance study of melting coefficient. Yamazaki, T., [1995,jpn] 50-1172
Ice-sheet growth and high-latitudes sea-surface temperature. Berger, A., et al. [1996,eng] 50-5862
Increasing CO₂ decreasing insolation, and initiation of ice sheets. Chu, S.P., [1994,eng] 50-671
Late Quaternary lake-level record from northern Eurasia. Harrison, S.P., et al. [1996,eng] 50-4578
Latitude as a factor in the calculation of primary production. Platt, T., et al. [1995,eng] 50-4129
Mechanisms of direct and indirect climate forcing by aerosols in the arctic region. Blanchet, J.P., [1995,eng] 50-1642
Microclimatic models, estimation of solar radiation and evaporation over land surfaces. Heikinheimo, M., et al. [1994,eng] 50-3186
Model of Northern Hemisphere glaciation. Dong, B.W., et al. [1995,eng] 50-1328
Modeling the heating and melting of sea ice through light absorption by microalgae. Zeebe, R.E., et al. [1996,eng] 50-2844
Paleoclimatological variations from isotope analysis of marine deposits. Rial, J.A., [1995,eng] 50-1286
Páramo microclimate and leaf thermal balance of Andean giant rosette plants. Meinen, F.C., et al. [1994,eng] 50-3046
Physical climatology of alpine tundra. Scout Mountain. British Columbia, Canada. Saunders, I.R., et al. [1996,eng] 50-4235
Quaternary Fourier stratigraphy: orbital templates and Milankovitch anomalies. Berger, W.H., [1994,eng] 50-1066

- Radiative fluxes and their impact on the energy balance of the Greenland ice sheet. Konzelmann, T., et al. [1995,eng] 50-1871

- Rapid calculation of direct radiation on sloping fields. Wang, J., et al. [1995,chi] 50-5629
Solar heating of the arctic mixed layer. Maykut, G.A., et al. [1995,eng] 50-2775
Solar irradiance, air pollution and temperature changes in the Arctic. Stanhill, G., [1995,eng] 50-8231
Spring-bloom time-series at the Bering Sea ice edge pt.1. Niebauer, H.J., et al. [1995,eng] 50-1031
Steep latitudinal gradient of solar ultraviolet-B radiation in the arctic-alpine life zone. Caldwell, M.M., et al. [1980,eng] 50-1410
Study on snowmelt runoff prediction using weekly weather forecast. Hata, S., et al. [1995,eng] 50-1959
Sub-surface melting in a seasonal snow cover. Koh, G., et al. [1995,eng] 50-1869
Ten million year histories of obliquity and precession: the influence of the ice-age cycle. Jiang, X.H., et al. [1996,eng] 50-5044
Terrain as a controlling factor for slush streams in Spitsbergen. Scherer, D., et al. [1994,eng] 50-1588
Vostok ice core deuterium variations over the last two glacial cycles. Waelbroeck, C., et al. [1995,eng] 50-4089
See [also]: Solar radiation

Instrument errors

See [also]: Accuracy

Instruments

- Analysis of thermal stresses around a cryosurgical probe. Rabin, Y., et al. [1996,eng] 50-5814
Automated DIMM telescope for Antarctica. Dopita, M.A., et al. [1996,eng] 50-5270
Buoy installation and operation in Terra Nova Bay. Cucinotta, A., et al. [1994,eng] 50-4284
Condensation on cooled surfaces of optical devices at the cosmic conditions. Drobyshev, A., et al. [1992,eng] 50-624
Development of JARE deep ice coring system (III). Takahashi, A., et al. [1996,jpn] 50-6347
First data and future prospects for AMANDA, the antarctic muon and neutrino detector. AMANDA Collaboration, [1994,eng] 50-5215
Japanese antarctic activities for 1995-1996. Tokyo. National Institute of Polar Research, [1996,eng] 50-2608
POST: Polar Stratospheric Telescope. Bely, P.Y., et al. [1995,eng] 50-2527
Report of "Workshop on the Glaciological Technology in Polar Regions". Kamiyama, K., [1995,jpn] 50-661
Study of snowflakes in antarctic clouds. Lachlan-Cope, T., [1996,eng] 50-4572
See [also]: Borehole instruments; Indicating instruments; Measuring instruments; Meteorological instruments; Radiation measuring instruments; Recording instruments; Strain measuring instruments

Insulation

- Application of foam insulation for remediation of degraded permafrost. Feklistov, V.N., et al. [1996,eng] 50-5472
Covering. Kreiman, A.B., [1982,rus] 50-2054
Depth hoar influence on permafrost thermal regime. Zhang, T., et al. [1996,eng] 50-6585
Design guide for frost-protected shallow foundations. NAHB Research Center, [1994,eng] 50-3579
Economic expediency of composite insulating bricks for wall structures. Nedavni, O.I., et al. [1995,rus] 50-722
Effect of sea ice frost flowers on infrared surface observations. Martin, S., et al. [1996,eng] 50-5858
Frost heave due to ice lens formation in freezing soils. 2. Field application. Sheng, D., et al. [1995,eng] 50-743
Handwarmers benefit young citrus trees during freezes. Parsons, L.R., et al. [1995,eng] 50-872
Method of preserving ice. Feldman, B.I.A., [1992,rus] 50-1947
Microsprinkler irrigation for freeze protection of young citrus trees. Davies, F.S., [1995,eng] 50-3075
Physical limnological processes under ice. Kenney, B.C., [1996,eng] 50-6578
Simulation of foam protection of plants against frost. Krasovitski, B., et al. [1995,eng] 50-961
Snow cover. Colbeck, S.C., [1996,eng] 50-4615
Thermal environments of arctic soil organisms during winter. Coulson, S.J., et al. [1995,eng] 50-2811
Was it snowing snowballs? Bartlett, A.A., [1996,eng] 50-5941
See [also]: Electrical insulation; Pipeline insulation; Thermal insulation

Intake systems

See [also]: Water intakes

Interception

- Albedo of forest with crown snow. Yamazaki, T., et al. [1996,jpn] 50-3501
Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-2461
Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-3129

Interfaces

- Sound propagation through hydrological fronts in the Barents Sea. Aleksandrov, I.A., [1995,eng] 50-3311
Subzero temperature water behavior in nonionic microemulsions, pt.1. Garti, N., et al. [1996,eng] 50-3409
See [also]: Air water interactions; Ice air interface; Ice solid interface; Ice vapor interface; Ice water interface; Liquid solid interfaces; Snow air interface;

Interfacial tension

Snow ice interface; Soil air interface

Interfacial tension

- Capillary bonding of wet surfaces and adhesion of skis to ice. Colbeck, S.C., [1996.eng] 50-6038
- Cratering phenomena on aircraft anti-icing films. La Due, J., et al., [1996.eng] 50-4219
- Diffuse interface analysis of ice nucleation in undercooled water. Gránásky, L., [1995.eng] 50-1279
- Temperature effects on porous solid capillary functions. Grant, S.A., et al., [1996.eng] 50-5965

Internal friction

- Annealing effects on the internal friction of artificial ice single crystals. Oguro, M., et al., [1981.jpn] 50-5792
- Avalanche modeling in concave and convex chutes. Greve, R., et al., [1993.eng] 50-1209
- Dry-flowing avalanche run-up and run-out. McClung, D.M., et al., [1995.eng] 50-456
- Investigation of sea ice shear properties. Zanegin, V.G., et al., [1990.eng] 50-101
- Modeling the influence of ice on sea level variations in the Baltic Sea. Zhang, Z.H., et al., [1995.eng] 50-6758

International cooperation

- 1996 IASC meeting report. International Arctic Science Committee, [1996.eng] 50-4962
- Air Transport Options Workshop, to be held at the Antarctic Division, Hobart, Wednesday, 1 March 1995. Australia. Antarctic Science Advisory Committee, [1995.eng] 50-6417
- Alpine base for glacier-regime studies in Uzbekistan. Konov-alov, V.G., [1993.eng] 50-6343
- Alpine meteorology—conference in Engelberg, Switzerland, September 1990. Davies, H.C., [1991.eng] 50-5439
- Antarctic Treaty's 30 years of operation. Machowski, J., [1989.pol] 50-2876
- Arctic and climate: the Arctic Climate System Study program. Koudratov, K.I.A., et al., [1993.rus] 50-4113
- Arctic and Europe. Gerhardsen, T.S., [1996.eng] 50-4423
- Arctic and Russia. Granberg, A.G., [1996.eng] 50-4422
- Arctic Centre news, 1993, No.2, [1993.eng] 50-3598
- Arctic Centre news, 1993, No.3, [1993.eng] 50-3599
- Arctic research at San Diego State University, [1996.eng] 50-5573

Arctic science, engineering, and education—directory of awards: fiscal year 1994. United States. National Science Foundation, [1994.eng] 50-1553

Arctic systems: natural environments, human actions, nonlinear processes. International Arctic Science Committee, [1995.eng] 50-5302

Background to the German expedition to Clearwater Fiord, Baffin Island. Barr, W., [1992.eng] 50-3428

CASP annual report—1 February 1995-31 January 1996. Cambridge Arctic Shelf Programme, [1996.eng] 50-4794

Chinese participation in the World Data Center for Glaciology. Part 2. Chen, X.Z., et al., [1995.chi] 50-3992

Chinese participation in the World Data Center for Glaciology. Chen, X.Z., et al., [1995.chi] 50-3991

Commercial aspects of the Northern Sea Route. Ivanov, I.U.M., [1996.eng] 50-4444

Concept of the cooperative air transport system in East Antarctica. Klokov, V., et al., [1994.eng] 50-4279

Council of Europe's Open Partial Agreement on Major Hazards. EUR-OPA. Tondre, F., [1995.fre] 50-4645

Current policy of the Russian Federation regarding development and management of the Northern Sea Route System. Arikainen, A.J., et al., [1996.eng] 50-4450

Danish Polar Center annual report, 1994. Dansk Polarcenter, [1995.eng] 50-659

Ecosystem dynamics of the Bering and Chukchi Seas. Tsyban', A.V., [1995.eng] 50-3608

Environmental factors: conceptual design and current status. Hansson, R., et al., [1996.eng] 50-4436

Environmental security and the NSR: a pan-Arctic challenge? Østrem, W., [1996.eng] 50-4451

Experiences of three years of oil transportation in the Russian Arctic with a Western fleet. Niimi, M., [1996.eng] 50-4486

Exploitation of mineral resources in Antarctica. Machowski, J., [1989.pol] 50-2932

Guide to environmental impact assessment of activities in Antarctica. London. Foreign and Commonwealth Office. South Atlantic and Antarctic Department. Polar Regions Section, [1995.eng] 50-948

High-speed network for communication by voice, data video and fax among three antarctic bases. Blasi, L., et al., [1994.eng] 50-4282

Ice conditions and navigability of the NSR-vessels: present and future. Schwarz, J., [1996.eng] 50-4491

Icejet: hydro power for Europe. De Jong, D.J., [1995.eng] 50-2969

Impacts of climate change on mountain ecosystems: future research and monitoring needs. Guisan, A., et al., [1995.eng] 50-1020

Legal conditions for navigating the Northern Sea Route. Ørebech, P., [1996.eng] 50-4452

Legal means for the protection of the antarctic environment from human activities. Machowski, J., [1993.eng] 50-2181

Legal status of the Northern Sea Route. Timchenko, L.D., [1996.eng] 50-4454

Merging U.S., Canadian arctic areas considered, [1994.eng] 50-942

Modelling the release of radioactive waste in the Kara Sea. Timms, S.J., et al., [1995.eng] 50-5059

Multilaterals, horizontal wells could access remote Russian oil reserves. Hazen, T., [1996.eng] 50-6575

New protected areas in Russia in the framework of a circumpolar protected area network plan. Prokosch, P., [1995.eng] 50-3169

Newsletter, No.1, May 1995. International Permafrost Association, [1995.eng] 50-5147

Newsletter, No.2, Dec. 1986. International Permafrost Association, [1986.eng] 50-5148

Newsletter, No.3, Dec. 1987. International Permafrost Association, [1987.eng] 50-5149

Newsletter, No.4, Jan. 1988. International Permafrost Association, [1988.eng] 50-5150

Newsletter, No.5, Apr. 1989. International Permafrost Association, [1989.eng] 50-5151

Northern Gateway Oil Terminal Study: phase I. Vikhamar, T.K., et al., [1995.eng] 50-211

Northern Sea Route and the regional development in the North. Heifed, S.I., [1996.eng] 50-4441

Northern Sea Route: its development and evolving state of operations in the 1990s. Mulherin, N.D., [1996.eng] 50-4960

Northern Sea Route: future & perspective. Northern Sea Route: future & perspective. Proceedings of INSROP Symposium, Tokyo, Oct. 1-6, 1995, [1996.eng] 50-4419

Perceptions and relations between Russia and its northeast Asian neighbors. Simonsen, H., [1996.eng] 50-4453

Petroleum exploration opportunities on the U.S.-Russia Chukchi Sea continental shelf. Warren, T., et al., [1995.eng] 50-210

Polar regions: a political geography. Chaturvedi, S., [1996.eng] 50-5926

Polar vision or tunnel vision: The making of Canadian Arctic waters policy. Huebert, R., [1995.eng] 50-4503

Political, legal and strategic aspects of the Northern Sea Route. Ushakov, A.P., [1996.eng] 50-4455

Preliminary results of studies of industrial and nuclear contaminants in the Ob and Yenisey rivers and the Kara Sea. Champ, M.A., et al., [1995.eng] 50-5060

Private enterprise employment of Greenlanders at Thule Air Base. Sørensen, P.E., [1995.eng] 50-2970

Progress report on studies to explain the mechanisms of desertification, [1989.jpn] 50-2034

Project III.7.2: Potential of the NSR as a regular cargo service. Ivanov, I.U.M., et al., [1996.eng] 50-4446

Prospects for Polish studies in Antarctica. Birkenmajer, K., [1989.pol] 50-2877

Report on radioactivity in the Arctic region. Paakkola, O., [1991.eng] 50-3423

Revegetation trials in Western Siberia: the growth of a cooperative effort. Younkun, W., et al., [1994.eng] 50-306

Russian Arctic straits under international law. Brubaker, D., [1996.eng] 50-4449

Russian Arctic water under international law. Brubaker, D., [1996.eng] 50-4458

Significance of the NSR for regional development in arctic areas of Russia. Granberg, A.G., [1996.eng] 50-4442

Steering Group for the Global Digital Sea-ice Data Bank. Fourth session. Final report. Commission for Marine Meteorology, [1994.eng] 50-6075

Summary of Project IGCP-253. Lundqvist, J., et al., [1995.eng] 50-497

U.S. arctic policy aims for circumpolar cooperation. Senseney, R., [1995.eng] 50-955

United States arctic research plan: Biennial revision: 1996-2000. Meyers, C.E., et al., [1995.eng] 50-3243

US/Japan snow avalanche joint research projects. 1992 and 1993. Nagaoka Institute of Snow and Ice Studies, [1995.jpn] 50-6591

Winter investigations in the Ross, Amundsen and Bellingshausen seas, 1993-1995. Jaha Öberg, R., et al., [1995.spa] 50-2583

Witness the Arctic, vol.3, no.1. Arctic Research Consortium of the United States, [1996.eng] 50-3930

Witness the Arctic, Vol.3, no.2. Arctic Research Consortium of the United States, [1995.eng] 50-954

Workshop on Antarctic Air Transport Networks. Council of Managers of National Antarctic Programs, [1995.eng] 50-6270

Interstitial ice

Formation of ice between hydrotalcite particles measured by thermoporometry. Titulaer, M.K., et al., [1996.eng] 50-6330

Microscopy of xylem ray supercooling wood tissues response to freezing stress. Ristic, Z., et al., [1995.eng] 50-3341

Introduced plants

Arcto-alpine and boreal elements in the high altitude flora of north west Himalaya. Gupta, R.K., [1994.eng] 50-5417

Barley genetic resources on the Qinghai-Xizang Plateau. Xu, T.W., [1992.chi] 50-1492

Computer database on anthropogenic arctic vegetation. Sumina, O.I., [1994.rus] 50-261

Early Holocene land florae and faunas from Edgøya, eastern Svalbard. Bennike, O., et al., [1995.eng] 50-4717

Ion density (concentration)

Evaluation of wheat germplasm resources in Xizang. Huang, H.L., et al., [1992.chi] 50-1491

Introduction of *Larix olgensis* into the Greater Khingan Range. Liu, X.T., et al., [1991.chi] 50-5850

Invasion of arcto-tertiary elements in the Palaeogene of central Europe. Walther, H., [1994.eng] 50-909

Modeling forest succession at Glacier Bay. Weishampel, J.F., et al., [1995.eng] 50-3744

Primary succession and future vegetation patterns at Glacier Bay. Chapin, F.S., III, et al., [1995.eng] 50-3743

Rangelands of Xizang (Tibet). Mou, X.D., et al., [1992.chi] 50-2296

Selection of cold-tolerant plants for growth in soils contaminated with organics. Rogers, H.B., et al., [1995.eng] 50-4609

Species interactions during primary succession at Glacier Bay. Fastie, C.L., [1995.eng] 50-3745

Inversions See [also]: Temperature inversions

Ion density (concentration)

110,000-yr record of explosive volcanism from the GISP2 (Greenland) ice core. Zielinski, G.A., et al., [1996.eng] 50-4575

130 years deposition record of sulfate, nitrate and chloride from a high-alpine glacier. Döschner, A., et al., [1995.eng] 50-4079

Acid aerosols in rime on Kyushu, Japan. Nagafuchi, O., et al., [1995.eng] 50-4957

Acid pollutants in air and precipitation/deposition at the Sudeten Mountains, Poland. Kmiec, G., et al., [1995.eng] 50-4954

Basal water pressure as indicator of subglacial drainage patterns. Stone, D.B., et al., [1996.eng] 50-6090

Biomass burning signatures in Greenland snow and atmosphere. Dibb, J.E., et al., [1996.eng] 50-3152

Cations within glacier ice, snow and river water at Xidatan coal mine. Huang, C.L., et al., [1995.chi] 50-5641

Characteristics of the distribution of absorbed ions in syncretogenic and epicyclogenetic rocks. Ostroumov, V.E., [1996.rus] 50-6822

Comparison of subglacial and extra-glacial weathering. Aximann, E.V., et al., [1995.eng] 50-2436

Concentration changes of MSA and major ions in arctic aerosols during polar sunrise. Suzuki, K., et al., [1995.eng] 50-3251

Contribution to the hydrological and hydrochemical response of mountain basins. Babiková, G., et al., [1994.eng] 50-3670

Crystallization of ice in glycerol solutions, pt.1. Hey, J.M., et al., [1996.eng] 50-5813

Ecophysiology of a snow-bed moss during snowmelt. Woolgrove, C.E., et al., [1996.eng] 50-6748

Estimates of Greenland atmospheric impurity variations during deglaciation. Alley, R.B., et al., [1995.eng] 50-1872

Evaluation of the changes in regional wintertime deposition in Finland during 1976-1993. Sovier, J., et al., [1995.eng] 50-4956

Forest fire records inferred from Greenland ice core chemistry. Legrand, M., et al., [1996.eng] 50-3447

Glacier river water study in Austre Okstindbreen Basin. Theakstone, W.H., et al., [1994.eng] 50-5700

Grain-scale mechanisms influencing the elution of ions from snow. Cragin, J.H., et al., [1996.eng] 50-1975

Hydrochemical indicators of subglacial drainage system structure. Tranter, M., et al., [1996.eng] 50-6086

Hydrochemical processes during snowmelt in a subalpine watershed, Colorado, USA. Peters, N.E., et al., [1995.eng] 50-2423

Hydrochemical study of snow meltwater and snow cover. Suzuki, K., [1995.eng] 50-2404

Hydrogeochemistry of Fraser River, British Columbia. Cameron, E.M., [1996.eng] 50-5815

Impurities in surface meltwater from a Tian Shan glacier. Goco-Azuma, K., et al., [1995.eng] 50-613

Influence of the growth mechanisms of snow particles on their chemical composition. Takahashi, T., et al., [1996.eng] 50-5610

Initial snow chemistry survey of the Mogollon Rim in Arizona. Barbaris, B., et al., [1996.eng] 50-6711

Interpretation of hydrochemical evidence for meltwater routing at a high arctic glacier. Hodgkins, R., et al., [1995.eng] 50-2432

Ion chemistry controls for a Chinese river. Williams, M.W., et al., [1995.eng] 50-2604

Ion flux through a shallow snowpack: effects of initial conditions and melt sequences. Davis, R.E., et al., [1995.eng] 50-2405

Isotopic and ionic variations in glacier river water during three contrasting ablation seasons. Theakstone, W.H., et al., [1996.eng] 50-6085

Labile dissolved forms of heavy metals in the Kara Sea waters. Kravtsov, V.A., et al., [1995.eng] 50-3534

Major, minor, and trace element chemistry of surface waters in the Everest region of Nepal. Reynolds, B., et al., [1995.eng] 50-2434

Manganese and other trace elements in urban snow near an expressway. Loranger, S., et al., [1996.eng] 50-5776

Migration of chemical elements in frozen rocks. Chuvilín, E.M., et al., [1996.rus] 50-6820

Missing chemistry of reactive nitrogen in the upper stratospheric polar winter. Kawa, S.R., et al., [1995.eng] 50-1189

Oxidation of S(IV) during riming by cloud droplets. Irribarne, J.V., et al., [1995.eng] 50-1103

Processes controlling the chemistry of two snowmelt-dominated streams in the Rocky Mountains. Campbell, D.H., et al., [1995.eng] 50-2545

Ion diffusion

- Reassessment of the Eurasian river input of water, sediment, major elements, and nutrients to the Arctic Ocean. Gordeev, V.V., et al. [1996.eng] 50-5693
- Release of major ions and hydrogen peroxide from homogeneous, melting snow. Herrmann, R., et al. [1995.eng] 50-4014
- Some surveys of snow chemistry in the Tien Shan of Kirghizstan and Kazakhstan. Kattelmann, R., et al. [1995.eng] 50-2411
- Sources of acidity in fresh snowfall elemental concentrations. Baisden, W.T., et al. [1995.eng] 50-2126
- Spectrometric detection of chloride ions in snow. Vanchikova, E.V., et al. [1995.eng] 50-3791
- Spectroscopy of photolysis in frozen solution systems. Yamauchi, S., et al. [1993.eng] 50-1467
- Subglacial chemical erosion in a Swiss mountain glacier. Brown, G.H., et al. [1996.eng] 50-6236
- Subglacial meltwater composition sampled through boreholes. Lamb, H.R., et al. [1995.eng] 50-2433
- Sulfide oxidation products in the antarctic atmosphere. Davison, B., et al. [1996.eng] 50-5615
- Suspended sediment weathering in alpine glacial meltwater. Brown, G.H., et al. [1996.eng] 50-6088
- Temperature evolution of a chemically stratified lake. Spiegel, R.H., et al. [1996.eng] 50-6333
- Transient hydrogeological controls on the chemistry of a seepage lake. Krabbenhoft, D.P., et al. [1995.eng] 50-2730
- Upland watershed hydrochemical response to acidification during snowmelt. Allan, C., [1995.eng] 50-5210
- Use of fractal parameters to detect active layer heat transfer. Hinkel, K.M., et al. [1995.eng] 50-1138
- X-ray analysis of ion distribution in frozen salt droplets. Orlovich, D.A., et al. [1995.eng] 50-6590
- Ion diffusion**
- A hydrochemical model for seasonally snow-covered alpine watersheds. Wolford, R.A., et al. [1996.eng] 50-4237
- Analysis of long term sulfate and nitrate budgets in a Rocky Mountain basin. Baron, J.S., et al. [1995.eng] 50-2417
- Can inorganic chemical species volatilize from snow. Cragin, J.H., et al. [1995.eng] 50-2393
- Cation trace analysis of snow and firn samples from high-alpine sites by ion chromatography. Döschner, A., et al. [1995.eng] 50-594
- Chemical and isotopic tracers of snowmelt flowpaths in a subalpine watershed. Miller, E.K., et al. [1995.eng] 50-2427
- Contributions of snow and fog to Greenland ice sheet ionic variations. Bergin, M.H., et al. [1995.eng] 50-586
- Design of capacitor to measure permittivity of supercooled aqueous solutions. Wolter, F., et al. [1996.eng] 50-5503
- Electrical freezing potentials measured in a pingo growing in the western Canadian Arctic. Parameswaran, V.R., et al. [1996.eng] 50-5471
- Grain-scale mechanisms influencing the elution of ions from snow. Cragin, J.H., et al. [1996.eng] 50-1975
- Ion flux through a shallow snowpack: effects of initial conditions and melt sequences. Davis, R.E., et al. [1995.eng] 50-2405
- Ions and dipoles in water and ice, and their transfer through the interface. Von Hippel, A., et al. [1974.eng] 50-5739
- Lake acidification during mountain snowmelt. Stoddard, J.L., [1995.eng] 50-4076
- Method to prevent weld zone corrosion in offshore structures. DeGeer, D.D., et al. [1991.eng] 50-1726
- Migration of chemical elements and ions in the seasonal thaw layer and upper layer of perennially frozen rocks. Leibman, M.O., et al. [1996.rus] 50-6848
- O₂ on Ganymede: spectral characteristics and plasma formation mechanisms. Calvin, W.M., et al. [1996.eng] 50-4256
- Periodic auroral events at the high-latitude convection reversal in the 16 MLT region. Sandholt, P.E., et al. [1990.eng] 50-4729
- Positive ion depletion in a noctilucent cloud. Balsiger, F., et al. [1996.eng] 50-3604
- Relation of snowpack chemistry to streamwater composition. Shanley, J.B., et al. [1995.eng] 50-2425
- Release of major ions and hydrogen peroxide from homogeneous, melting snow. Herrmann, R., et al. [1995.eng] 50-4014
- Snow and water chemistry of a headwater alpine basin. Urumqi River, Tian Shan, China. Liu, F.J., et al. [1995.eng] 50-2413
- Soil/weathering rate relations from glacial sediment chemical evolution. Taylor, A., et al. [1995.eng] 50-1806
- Spatial distribution of snow chemical load at the tundra-taiga transition. Pomeroy, J.W., et al. [1995.eng] 50-2412
- Spectrometry of nucleic acid frozen solutions. Boriak, O.A., et al. [1996.eng] 50-4046
- Ion exchange**
- Changes in trace element speciation in Kola north surface waters during snow melt. Rodushkin, I.V., et al. [1995.eng] 50-4080
- Electric field effects on growing ice surface force curves. Slaughterbeck, C.R., et al. [1996.eng] 50-5939
- Formation of ice between hydroalite particles measured by thermoporometry. Titulaer, M.K., et al. [1996.eng] 50-6330
- Ion-induced nucleation around radon daughters in remote arctic maritime air. Bigg, E.K., [1996.eng] 50-4322
- Runoff composition in a bedrock catchment watershed. Clow, D.W., et al. [1995.eng] 50-2415
- Salinity of Quaternary deposits in the western Yamal Peninsula. Lakhina, O.V., et al. [1983.rus] 50-314

- Simulated transport of three cations through porous media. Grant, S.A., et al. [1995.eng] 50-5598
- Snowpack controls on soil nitrogen dynamics in the Colorado alpine. Brooks, P.D., et al. [1995.eng] 50-2420
- Solvation of hydrogen halides on the surface of ice. Robertson, S.H., et al. [1995.eng] 50-6069
- Spectrometry of frozen organic surface ionization. Betts, R.L., et al. [1995.eng] 50-657
- Studies on ice nucleating behavior of AgI-AgBr-CuBr system. Radhakrishnan, T., et al. [1996.eng] 50-4290
- Upland watershed hydrochemical response to acidification during snowmelt. Allan, C., [1995.eng] 50-5210
- Ionization**
- Adsorption and ionization of HCl on an ice surface. Banham, S.F., et al. [1996.eng] 50-5940
- Amorphous ice molecular transitions under electron bombardment. Kimmel, G.A., et al. [1995.eng] 50-156
- Electron-stimulated dissociation of amorphous ice. Kimmel, G.A., et al. [1995.eng] 50-2160
- Experiments of the charging mechanism of ice particles by the ion-capture process. Asuma, Y., et al. [1983.eng] 50-5797
- Ion irradiation of astrophysical ices. Strazzulla, G., et al. [1995.eng] 50-3022
- Ionisation and solvation of stratospherically relevant molecules on ice films. Banham, S.F., et al. [1995.eng] 50-5959
- Laser ablation of organic molecules from frozen matrices. Belov, M.E., et al. [1995.eng] 50-3720
- Light flash and ionization from hypervelocity impacts on ice. Burchell, M.J., et al. [1996.eng] 50-6530
- Neutral and ionized PAHs: contribution to the interstellar extinction. Salama, F., et al. [1995.eng] 50-3021
- Radiation chemistry of ices of planetological interest at low temperature. Strazzulla, G., [1995.eng] 50-654
- Solar particle origin for polar ice core nitrate anomalies. Zeller, E.J., et al. [1995.eng] 50-1184
- Sputtering of ices in the outer solar system. Johnson, R.E., [1996.eng] 50-5296
- Sputtering of water ice surfaces and the production of extended neutral atmospheres. Shi, M., et al. [1995.eng] 50-2774
- Vapor deposited water ice: astrophysical implications. Sack, N.J., [1992.eng] 50-697
- Ions**
- Biogeochemistry of heavy metals in the Arctic. Dobrovolskiĭ, V.V., [1995.rus] 50-3971
- Changes in the composition of major ions in the Marukh Glacier in summer, 1970. Shadrina, O.V., [1972.rus] 50-555
- Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996.rus] 50-6382
- Development of a field method for quantifying ammonium picrate and picric acid in soil and water. Thorne, P.G., et al. [1995.eng] 50-1152
- Migration of chemical elements in frozen rocks. Chuvilin, E.M., et al. [1996.rus] 50-6820
- Reflection of weather conditions in the chemistry of horizontal fog/cloud precipitation. Škvarčina, J., et al. [1991.eng] 50-3522
- Iran**
- Atmospheric icing on transmission line towers in Iran. Arabani, M.P., et al. [1996.eng] 50-5364
- Experience and analysis of galloping phenomenon in overhead transmission lines in Iran. Javaherianesh, M., [1996.eng] 50-5404
- Ireland**
- Early stages of till genesis: an example from Fanore, County Clare, Ireland. Croot, D.G., et al. [1996.eng] 50-5828
- Moraine bank facies in Ireland. McCabe, A.M., et al. [1995.eng] 50-921
- Irish Sea**
- Moraine bank facies in Ireland. McCabe, A.M., et al. [1995.eng] 50-921
- Irrigation**
- Analysis of the water and salt balance of the irrigated areas in the Yangtze Basin. Song, Y.D., et al. [1991.chi] 50-5121
- Effect of irrigation on the quality and productivity of Jiaoshi melons. Chang, Q., et al. [1991.chi] 50-5125
- Freeze protection of Florida citrus with microsprinkler irrigation. Parsons, L.R., et al. [1995.eng] 50-3074
- Ice dam. Vasil'ev, P.N., et al. [1992.rus] 50-1911
- Land application of nitrates wastewater into ice cubes. Madison, M., et al. [1994.eng] 50-2122
- Microsprinkler irrigation for freeze protection of young citrus trees. Davies, F.S., [1995.eng] 50-3075
- Preventing frost damage to irrigation canals by geotextile. Chen, L., et al. [1996.eng] 50-6167
- Tree-clip development in microirrigation allows easy frost and freeze protection. Thayer, S.S., [1995.eng] 50-3076
- Islands**
- See [also]: Artificial islands; Ice islands
- Isoasty**
- Barents Sea ice sheet retreat. Forman, S.L., et al. [1996.eng] 50-5585
- Cenozoic deposition in the Nansen Basin, Barents Sea. Vågenes, E., [1996.eng] 50-5313
- Cenozoic uplift of Fennoscandia inferred from a study of the mid-Norwegian margin. Sæviold, L.M., et al. [1996.eng] 50-5324
- Contribution to the geomorphological problem of strandflats. Tietze, W., [1962.ger] 50-5743
- Differentiation of neotectonic movements in western Sørkapp Land (Spitsbergen). Szczepny, R., [1993.eng] 50-2211

Isotope analysis

- Eastern Canadian Arctic at ca. 6 ka BP: a time of transition. Williams, K.M., et al. [1995.eng] 50-1450
- Elastic response of the earth to interannual variations in antarctic precipitation. Conrad, C.P., et al. [1995.eng] 50-3089
- Evolution and age of shorelines along Woodford, northern Spitsbergen. Brückner, H., et al. [1994.eng] 50-1582
- Glacial isostasy and lateral mantle viscosity. Sabadini, R., et al. [1989.eng] 50-4710
- Glacial isostatic uplift of Tibet as a consequence of a former ice sheet. Kühle, M., [1995.eng] 50-6064
- Glacial rebound of the British Isles—III: constraints on mantle viscosity. Lambeck, K., et al. [1996.eng] 50-4737
- Glacio-isostatic implications of Swedish Holocene shore displacement. Berglund, M., [1995.eng] 50-3367
- Global sea level rise and glacial isostatic adjustment. Peltier, W.R., [1996.eng] 50-4310
- Gould Pond, Maine: late-glacial transitions from marine to upland environments. Anderson, R.S., et al. [1992.eng] 50-2561
- Influence of a finite glaciation phase on predictions of post-glacial isostatic adjustment. Mitrovica, J.X., et al. [1995.eng] 50-2723
- Late Quaternary glacial and environmental history of Kongsøya, Svalbard. Ingólfsson, O., et al. [1995.eng] 50-4713
- Late stage 5 glacio-isostatic sea in the St. Lawrence Valley, Canada and the United States. Occhipinti, S., et al. [1996.eng] 50-4577
- Limits on the areal extent of the Barents Sea ice sheet in Late Weichselian time. Lambeck, K., [1996.eng] 50-5307
- Mantle rebound from data inversion of glacier isostatic dynamics. Peltier, W.R., et al. [1996.eng] 50-3548
- Moraine bank facies in Ireland. McCabe, A.M., et al. [1995.eng] 50-921
- North Sea lithostratigraphy related to glacial isostasy. Ekman, S.R.R., [1995.eng] 50-6560
- Numerical modelling of ice sheet fluctuation in the Russian Arctic. Siegent, M.J., et al. [1995.eng] 50-1800
- Pleistocene glaciation and the Earth's precession constant. Mitrovica, J.X., et al. [1995.eng] 50-517
- Pleistocene glaciomarine isostatic rebound, Puget Lowland, Washington. Dethier, D.P., et al. [1995.eng] 50-1832
- Postglacial rebound from VLB geodesy: on establishing vertical reference. Argus, D.F., [1996.eng] 50-5459
- Postglacial sea-level history of Edgeøya and Barentsøya, eastern Svalbard. Bondevik, S., et al. [1995.eng] 50-4715
- Quantification of Barents Sea Pleistocene bottom erosion. Rasmussen, E., et al. [1996.eng] 50-5311
- Quaternary sea level history in the Northwest Territories, Canada. Kerr, D.E., [1996.eng] 50-6553
- Rapid isostatic rebound in southwestern Iceland at the end of the last glaciation. Ingólfsson, O., et al. [1995.eng] 50-1802
- Sea level variations related to glacial isostasy. Mitrovica, J.X., et al. [1995.eng] 50-1185
- Study of the morphology of a discontinuous section of a first year arctic pressure ridge. Bowen, R.G., et al. [1996.eng] 50-3829
- Submerged terraces in the Barents Sea. Lebesbye, E., et al. [1996.eng] 50-4876
- Ten million year histories of obliquity and precession: the influence of the ice-age cycle. Jiang, X.H., et al. [1996.eng] 50-5044
- Vertical motion and ice thickness variation in western North America. Trupin, A.S., et al. [1996.eng] 50-3068
- Isothermal chambers**
- See [also]: Cold chambers
- Isotherms**
- Heat transfer in an ice-water saturated porous medium. Zhang, X.L., [1993.eng] 50-5782
- Hydrological problems in the Ebba Basin and Petunia Gulf (Central Spitsbergen). Choiński, A., [1989.pol] 50-2919
- Low cloud icing climatological data. Takasugi, S., [1970.eng] 50-4405
- Natural convection for the melting of ice in porous media in a rectangular enclosure. Chang, W.J., et al. [1996.eng] 50-4533
- Siberian future climate predictions. Volkova, V.S., et al. [1995.eng] 50-6584
- Solidification of water in a buried pipe. Negiz, A., et al. [1995.eng] 50-1967
- Thermal recultivation of permafrost using a foam screen in the Arctic North. Feklistov, V.N., et al. [1990.rus] 50-1603
- Winter-time convection in open-graded embankments. Goering, D.J., et al. [1996.eng] 50-3827
- Isotope analysis**
- 10-century comparison of prominent bipolar volcanic events in ice cores. Langway, C.C., Jr., et al. [1995.eng] 50-583
- 135,000-year Vostok SPECIMAP common temporal framework. Sowers, T., et al. [1993.eng] 50-2867
- ²²²Ra as a tracer for shelf water in the Arctic Ocean. Van der Loeff, M.M.R., et al. [1995.eng] 50-4564
- ²³⁴Th as an indicator of particulate fluxes in the Kara Sea. Kuptsov, V.M., et al. [1995.eng] 50-3544
- Accelerator mass spectrometry: new applications. Synal, H.A., [1995.eng] 50-2309
- Acid aerosols in rime on Kyushu, Japan. Nagafuchi, O., et al. [1995.eng] 50-4957
- Age of carbon black atmospheric aerosols over Finland. Raunemaa, T., et al. [1996.eng] 50-5257
- Aircraft measurements of the stable carbon isotopic ratio of atmospheric methane over Siberia. Sugawara, S., et al. [1996.eng] 50-6051

Isotopes

Italy—Lombardy

- Analysis of periodic variations in paleoclimatic indicators. Bolton, E.W., et al. [1995,eng] 50-1216
- Arctic Ocean radioactive isotope distribution and transport. Scholten, J.C., et al. [1995,eng] 50-4563
- Atmospheric CO₂ in peat. White, J.W.C., et al. [1994,eng] 50-3770
- Basal ice facies and their formation in the western Alps. Hubbard, B., et al. [1995,eng] 50-2805
- Biogenic composition of ice-rafted debris in Atlantic Ocean bottom sediment. van Kreveld, S.A., et al. [1996,eng] 50-5219
- Century of accumulation and temperature changes in Dronning Maud Land, Antarctica. Isaksson, E., et al. [1996,eng] 50-4352
- Chemical and isotopic tracers of snowmelt flowpaths in a subalpine watershed. Miller, E.K., et al. [1995,eng] 50-2427
- Chernobyl fallout in Bering Sea sediments. Kusakabe, M., et al. [1988,eng] 50-4635
- Climate of the penultimate ice age according to data from an antarctic ice core. Koldakov, V.M., et al. [1993,rus] 50-4103
- Climatic implications of solar modulation of cosmogenic isotopes in antarctic ice cores. Steig, E.J., et al. [1996,eng] 50-3549
- Climatic influences on Chinese water resources. Shi, Y.F., et al. [1995,eng] 50-4231
- Contrasting atmospheric and paleoclimate dynamics. Ditlevsen, P.D., et al. [1996,eng] 50-3352
- Cretaceous to recent extension in the Bering Strait region, Alaska. Dumitru, T.A., et al. [1996,eng] 50-3714
- Danish lacustrine sediment evidence of paleoclimatological variability. Hammarlund, D., et al. [1996,eng] 50-5826
- Dating of Norwegian Pleistocene rock sediments. Balashov, I.U.A., et al. [1995,eng] 50-5534
- Distribution of $\delta^{18}\text{O}$ in precipitation on the Qinghai-Xizang Plateau. Zhang, X.P., et al. [1995,eng] 50-4512
- Distribution of deuterium excess in surface snow of the antarctic ice sheet. Ren, J.W., et al. [1995,eng] 50-978
- European paleoclimatic variations inferred from Greenland ice core isotope analysis. Hafliðason, H., et al. [1995,eng] 50-2528
- Evidence for Heinrich layers off Portugal (Tore Seamount: 39°N, 12°W). Lebreiro, S.M., et al. [1996,eng] 50-5220
- Evidence of paleoclimatic snow melt in lacustrine mountain deposits. Norris, R.D., et al. [1996,eng] 50-5082
- First results of $^{15}\text{N}/^{14}\text{N}$ ratios in nitrate from alpine and polar ice cores. Freyer, H.D., et al. [1996,eng] 50-3724
- Fluorescence spectra and lifetime of 2-naphthol in H₂O and D₂O-ice(I_h) single crystal. Ping, Q., et al. [1995,eng] 50-2161
- Glacier properties on Mt. Qogir, Karakorum. Qin, D.H., et al. [1994,eng] 50-1538
- Glacier river water study in Austre Okstindreen Basin. Theakstone, W.H., et al. [1994,eng] 50-5700
- Glacio-meteorological and isotopic studies along the EGIG line, central Greenland. Fischer, H., et al. [1995,eng] 50-1873
- Greenland ice core records and rapid climate change. Dowdeswell, J.A., et al. [1995,eng] 50-5239
- Greenland ice sheet climate record of the past 16,500 years. Stuiver, M., et al. [1995,eng] 50-2015
- Greenland paleotemperatures derived from ice core isotope profiles. Johnsen, S.J., et al. [1995,eng] 50-2027
- Greenland's ice holds key to climate puzzle. Kiernan, V., [1996,eng] 50-6546
- Groundwater flow through Ontario glacial deposits. Gerber, R.E., et al. [1996,eng] 50-6750
- Gulf of Mexico meltwater influx during Laurentide deglaciation. Marchitto, T.M., et al. [1995,eng] 50-340
- High precision ^{230}Th and ^{234}Th in the Norwegian Sea and Denmark by thermal ionization mass spectrometry. Moran, S.B., et al. [1995,eng] 50-2022
- Holocene environmental changes in a Tibetan lake basin, pt.1. Fontes, J.C., et al. [1996,eng] 50-5090
- Holocene environmental changes in a Tibetan lake basin, pt.4. Gasse, F., et al. [1996,eng] 50-5093
- Hydrologic pathways in an alpine watershed. Mast, M.A., et al. [1995,eng] 50-2418
- Ice bubbles confirm big chill. Kerr, R.A., [1996,eng] 50-5065
- Ice-age tropics revisited. Anderson, D.M., et al. [1994,eng] 50-3771
- Identification of ice-rafted sediments in Atlantic Ocean bottom cores. Auffret, G.A., et al. [1996,eng] 50-5218
- Isotope analysis of Arctic Ocean ice algae primary productivity. Hobson, K.A., et al. [1995,eng] 50-3359
- Isotope analysis of Bering Sea Pleistocene sediment variations. Nakatsuka, T., et al. [1995,eng] 50-3002
- Isotope analysis of Greenland ice sheet stratigraphic disturbances. Fuchs, A., et al. [1996,eng] 50-5461
- Isotope analysis of variable subarctic plant nutrient access. Michelsen, A., et al. [1996,eng] 50-5772
- Isotope geochemistry and crustal evolution of northern Xinjiang. Hu, A.Q., et al. [1993,chi] 50-2353
- Isotope techniques in permafrost investigations. Michel, F.A., [1989,eng] 50-2261
- Isotope tracking of Pleistocene ice-rafted debris. Gwiazda, R.H., et al. [1996,eng] 50-4399
- Isotopic analysis of groundwater in the Taklimakan Desert. Ushiki, H., et al. [1991,jpn] 50-1435
- Isotopic analysis of phosphorus in soils and crops of Xinjiang. Wu, G.H., et al. [1991,chi] 50-5130
- Isotopic analysis of snow on Asian glacier surfaces. Aizen, V.B., et al. [1996,eng] 50-5256
- Isotopic and ionic variations in glacier river water during three contrasting ablation seasons. Theakstone, W.H., et al. [1996,eng] 50-6085
- Isotopic calibration of Canadian arctic climatic change records. Beltrami, H., et al. [1995,eng] 50-3682
- Isotopic climatic records in the Allerød-Bølling-Younger Dryas and post-Younger Dryas events. Epstein, S., [1995,eng] 50-2804
- Isotopic exchange during glass transition of amorphous ice. Fisher, M., et al. [1995,eng] 50-150
- Isotopic studies on glaciers of the Institute of Geology, Estonian Academy of Sciences, on Spitsbergen. Martma, T., et al. [1989,eng] 50-2913
- Isotopic tracing of nitrate sources in snowmelt runoff. Kendall, C., et al. [1995,eng] 50-2426
- Isotopic chronologies of Chukchi Sea continental shelf sediment fluxes. Baskaran, M., et al. [1995,eng] 50-1805
- Late Cenozoic history of the Scandinavian and Barents Sea ice sheets. Mangerud, J., et al. [1996,eng] 50-5305
- Late Quaternary paleoceanography of the Eurasian Basin, Arctic Ocean. Cronin, T.M., et al. [1994,eng] 50-658
- Late Quaternary stratigraphy and glaciology in the Thule area, Northwest Greenland. Funder, S., ed. [1990,eng] 50-5169
- Lead isotopic ratios in Greenland and antarctic snow and ice. Chisholm, W., et al. [1995,eng] 50-1256
- Linking physical property records of Quaternary sediments to Heinrich events. Chi, J., et al. [1996,eng] 50-5221
- Little Ice Age evidence from a south-central North American ice core. U.S.A. Nafiz, D.L., et al. [1996,eng] 50-4334
- Loess sediment isotopic properties related to paleoclimate. Li, C.Y., et al. [1995,eng] 50-1555
- Marine record of deglaciation from the continental margin off Nova Scotia. Keigwin, L.D., et al. [1995,eng] 50-3001
- Monitoring Termination II at high latitude: anomalies in the planktic foraminiferal record. Bauch, H.A., [1996,eng] 50-5223
- New indicator of glacial dispersal: lead isotopes. Bell, K., et al. [1995,eng] 50-1857
- Nitrogen soil dynamics in an arctic lowland ecosystem. Chapin, D.M., [1996,eng] 50-4340
- North Atlantic paleoclimatic effects on primary productivity. Versteegh, G.J.M., et al. [1996,eng] 50-6620
- Norwegian Sea Pleistocene ice-core indicators of climatic change. Sejrup, H.P., et al. [1995,eng] 50-6564
- On the concentrations of O₂, N₂, and Ar in trapped gases from ice cores. Bender, M., et al. [1995,eng] 50-633
- Organic carbon paleo-pCO₂ and marine-ice core correlations and chronology. Raymo, M.E., et al. [1996,eng] 50-3601
- Origin of present-day antarctic precipitation from surface snow deuterium excess data. Ciais, P., et al. [1995,eng] 50-636
- Paleoceanographic impact of Norwegian Sea sediment stratigraphy. Rasmussen, T.L., et al. [1996,eng] 50-5222
- Paleoclimatic change from Lake Baikal sediments. Edgington, D.N., et al. [1996,eng] 50-6633
- Paleoclimatic CO₂ record related to changes in oceanic thermohaline circulation. Figge, R.A., et al. [1995,eng] 50-1149
- Paleoclimatic models of Chinese loess and paleosol sequences. Thompson, R., et al. [1995,eng] 50-2542
- Paleoclimatic reconstructions from antarctic volcanic ash deposits. Marchant, D.R., et al. [1996,eng] 50-4233
- Paleoclimatological implications of lacustrine ostracod ecology. Heaton, T.H.E., et al. [1995,eng] 50-2859
- Paleoclimatological variations from isotope analysis of marine deposits. Rial, J.A., [1995,eng] 50-1286
- Paleographic conditions for the formation of ice in homogeneous age varved clays. Karpov, E.G., et al. [1996,rus] 50-6377
- Pb isotope province and geochemical prospecting in northern Xinjiang. Zhu, B.Q., et al. [1993,chi] 50-2354
- Periodic water saturation of ice wedges: results of an oxygen-18 and deuterium study. Lauri, B., et al. [1995,eng] 50-667
- Peroxide concentrations in the Dome Summit South ice core, Law Dome, Antarctica. van Ommen, T.D., et al. [1996,eng] 50-6327
- Pleistocene climatic changes in arctic marine atmospheres. Seidenkrantz, M.S., et al. [1996,eng] 50-5584
- Pleistocene glacial history of the Svalbard area. Hebbeln, D., [1992,eng] 50-2558
- Plio-Pleistocene megacycles: record of climate and tectonics. Kukla, G., et al. [1996,eng] 50-5099
- Pliocene record in the central Arctic Ocean. Clark, D.L., [1996,eng] 50-6626
- Possible use of the oxygen isotope method to study ground ice and permafrost. Väikmäe, R.A., [1990,rus] 50-1629
- Pu, ^{137}Cs and excess ^{210}Pb in Russian arctic sediments. Baskaran, M., et al. [1996,eng] 50-5606
- Quaternary Fourier stratigraphy: orbital templates and Milankovitch anomalies. Berger, W.H., [1994,eng] 50-1066
- Quaternary geochronology using the U-Th-Pb method. Getty, S.R., et al. [1995,eng] 50-496
- Radiocarbon balances of two Tibetan Lakes from 13,000 BP. Fontes, J.C., et al. [1993,eng] 50-5027
- Rapid climatic shifts during isotopic stages 2-4 in the polar North Atlantic. Dokken, T.M., et al. [1996,eng] 50-6105
- Rare earths in the granulites of the Altay region. Zhao, Z.H., et al. [1993,chi] 50-2368
- Relation of snowpack chemistry to streamwater composition. Shanley, J.B., et al. [1995,eng] 50-2425
- Relations between weather systems affecting Tibetan Plateau and oxygen isotope in precipitation. Zhang, X.P., et al. [1995,chi] 50-5619
- Review of the geochemistry of methane in natural gas hydrate. Kvenvolden, K.A., [1995,eng] 50-6229
- Scavenging rates affecting Arctic Ocean radionuclide distributions. Cochran, J.K., et al. [1995,eng] 50-4562
- Seasonal solute movement in continuous permafrost. Boike, J., et al. [1995,eng] 50-2093
- Sedimentation and mixing rates of radionuclides in Barents Sea sediments off Novaya Zemlya. Smith, J.N., et al. [1995,eng] 50-4561
- Soil isotopic evidence of Quaternary atmospheric circulation variations in North America. Amundson, R., et al. [1996,eng] 50-2722
- Soluble salts and heavy hydrogen in Bosten Lake. Huang, Z.W., et al. [1991,chi] 50-5134
- Southern ocean Pleistocene water mass circulation variations. Diester-Haass, L., et al. [1996,eng] 50-3389
- Spectroscopic study of heavy ozone isotopes in the arctic atmosphere. Meier, A., et al. [1996,eng] 50-3550
- Stable carbon isotope ratios in the waters of the Laptev Sea/Sep. 94. Erlenkeuser, H., et al. [1995,eng] 50-2082
- Stable isotopes as hydrologic tracers in South Cascade Glacier. Vaughn, B.H., [1994,eng] 50-5546
- Stable isotopic character of mineralization of some deposits in northern Xinjiang. Zhang, G.X., et al. [1993,chi] 50-2378
- Stable isotopic investigation of nitrogen dynamics at Glacier Bay, Alaska. Hobbie, E.A., et al. [1995,eng] 50-3746
- Subglacial ice accretion in an Alaskan glacier. Strasser, J.C., et al. [1996,eng] 50-6250
- Trace elements in the Weddell Sea water and sediments in the continental shelf area. Niemistö, L., et al. [1995,eng] 50-1952
- Tritium analysis of ground ice: results and prospects. Chizhov, A.B., et al. [1996,rus] 50-6385
- Use of sulfur-35 and tritium to study runoff from an alpine glacier. Wind River Range, Wyoming. Michel, R.L., et al. [1995,eng] 50-2437
- Variations in Atlantic Ocean surface paleoceanography. Sarnthein, M., et al. [1995,eng] 50-3003
- Vostok ice core deuterium variations over the last two glacial cycles. Waelbroeck, C., et al. [1995,eng] 50-4089
- Isotopes**
- Deep water distillation. Boyle, E., [1996,eng] 50-5152
- Isotope composition of the ice and subglacial geology near the Allan Hills. Faure, G., et al. [1993,eng] 50-6319
- Isotopic studies on glaciers of the Institute of Geology, Estonian Academy of Sciences, on Spitsbergen. Martma, T., et al. [1989,eng] 50-2913
- Ocean thermohaline circulations compared. Yu, E.F., et al. [1996,eng] 50-5153
- Simple relationship between the properties of isotopic water. Vedamuthu, M., et al. [1996,eng] 50-4184
- Source areas for storm runoff generation estimated by isotope methods and the TOPMODEL. Lepistö, A., et al. [1994,eng] 50-3193
- Structural isotope effect in water bilayers adsorbed on RU(001). Held, G., et al. [1995,eng] 50-871
- See [also]: Carbon isotopes; Oxygen isotopes; Radioactive isotopes
- Israel**
- Estimation of the effect of operational seeding on rain amounts in Israel. Nirel, R., et al. [1995,eng] 50-1218
- Italy**
- Artificial freezing suspended while Tower of Pisa foundation is anchored. Wheeler, P., [1995,eng] 50-885
- Artificial intelligence and avalanches. Calari, R., [1995,ita] 50-2594
- Control of avalanche risk in the Brautio Valley. Campana, M., et al. [1995,ita] 50-2600
- Holocene evolution of a stretch of an eastern Italian alpine valley. Friz, C., et al. [1995,eng] 50-6697
- NKLOG avalanche model as applied at the Presena glacier ski lift. Cestari, P., [1995,ita] 50-2597
- Reports on the Glaciological Survey of 1993. Armando, E., et al. [1994,ita] 50-3767
- Summer and autumn avalanches: a neglected hazard. Zanon, J.P., [1995,fre] 50-4669
- Tests of computer models for forecasting avalanches in Italy. Gaddo, M., [1995,ita] 50-2595
- Thickness of Valfrua glaciers measured by vertical electrical probing. Guglielmin, M., et al. [1995,ita] 50-2601
- Veneto's glaciers. Zanon, G., [1990,ita] 50-861
- Italy—Alps**
- Avalanche incidents during the winter of 1993-94. Oberschmid, C., et al. [1994,ita] 50-1563
- Evolution of snow cover and avalanche activity in the Italian Alps during winter 1993-94. Lizzero, L., et al. [1994,ita] 50-1562
- Italian research on solifluction in the Alps. Meneghel, M., [1993,eng] 50-827
- Late-glacial advances in the western Italian Alps. Porter, S.C., et al. [1982,eng] 50-3383
- Meteorological events on the Italian Alps during the winter of 1993-94. Constantin, N., et al. [1994,ita] 50-1561
- Mountain permafrost and slope instability in the Italian Alps: the Val Pola landslide. Dramis, F., et al. [1995,eng] 50-669
- Italy—Apenine Mountains**
- Chronology of Upper Pleistocene stratified slope-waste deposits in central Italy. Coltori, M., et al. [1996,eng] 50-6700
- Italy—Lombardy**
- ELA variations recorded by Ortles-Cevedale Glaciers, Italy. Pelfini, M., [1994,eng] 50-3766

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Italy—Rutor Glacier

- Peat bog paleoclimatology and ecology adjoining an Italian glacier. Burga, C.A., [1995,fr] 50-862

Japan

- Air conditioning using snow thermal storage in aquifers. Umemiya, H., [1988,jpn] 50-2279
- Ammonium salts as agents for melting of snow. Abe, H., et al. [1995,jpn] 50-5070
- Application of a snow melting system using heat pipes with electric cartridge heaters. Egawa, H., et al. [1996,eng] 50-6492
- Arctic and Japan. Fujita, Y., [1996,eng] 50-4421
- Avalanche countermeasure operations in the Maekura district. Takahashi, Y., et al. [1992,jpn] 50-3132
- Casualties due to snow and ice phenomena. Ikarashi, T., [1995,jpn] 50-605
- Climatic division of snow cover environments in Japan using the mesh climatic data. Ishizaka, M., [1995,jpn] 50-997
- Countermeasures in the snow belt. Okada, H., [1995,jpn] 50-993
- Current conditions and countermeasures in the snow belt. [1985,jpn] 50-2036
- Current conditions and countermeasures in the snow belt. [1988,jpn] 50-2037
- Current conditions and countermeasures in the snow belt. [1991,jpn] 50-2038
- Current status and problems of countermeasures against snow and cold for oil storage tanks. Toyama, S., [1988,jpn] 50-2284
- Current status and prospects of snow countermeasures in Nagaoka New Town. Komine, M., [1988,jpn] 50-2286
- Current status and trends in countermeasures against snow and cold on highways. Murakuni, M., [1988,jpn] 50-2281
- Current technology of snow melting system using heat pipes in Japan. Sugihara, S., et al. [1996,eng] 50-6489
- Development of easily handled sidewalk snow removal equipment. Kamimura, H., et al. [1992,jpn] 50-3141
- Development of equipment for pulverizing solid deicers. Inui, T., et al. [1992,jpn] 50-3142
- Development of field technology and methods for forecasting snowfall and snow cover. [1989,jpn] 50-2041
- Development of snow removal equipment for median strips. Inui, T., et al. [1992,jpn] 50-3143
- Development of the JARE deep ice coring system (II). Narita, H., et al. [1995,jpn] 50-1693
- Economic evaluation of snow removal systems in urban areas. Part 1. Morohashi, K., et al. [1995,jpn] 50-995
- Economic evaluation of snow-removal systems in urban areas. Part 2. Morohashi, K., et al. [1996,jpn] 50-4925
- Effect of acid snow and acid rain on the soils and others in Niigata Prefecture. Taguchi, Y., et al. [1995,jpn] 50-5801
- Effects of contour-line strip-cutting of trees on snowmelt runoff. Shimizu, T., et al. [1996,jpn] 50-3500
- Energy saving characteristics of new type road-heating system. Hokari, K., et al. [1996,eng] 50-5400
- Exhibition of snow removal equipment. Tokyo, 1988. [1988,jpn] 50-2288
- Galloping events and associated meteorological condition experienced in Hokuriku area. Kasima, H., et al. [1996,eng] 50-5380
- History of snow tire. Aoi, H., [1995,jpn] 50-3513
- House construction in deep snow regions. Ujie, T., [1988,jpn] 50-2052
- Improvement of sidewalk snow removal within urban areas. Takahashi, S., et al. [1992,jpn] 50-3138
- Japanese and snow. Yoshino, M., [1988,jpn] 50-2044
- More words on snow countermeasures for National Highway 17 (Part 2). Abe, T., [1996,jpn] 50-6734
- More words on snow countermeasures for National Highway 17. Abe, T., [1996,jpn] 50-4939
- Nagaoka Institute of Snow and Ice Studies. [1992,jpn] 50-489
- On the snowfall at Aomori City due to orographic convergent winds. Rikishi, K., et al. [1995,jpn] 50-1170
- Patent for use of heat storing mixtures. Kakiuchi, H., [1995,jpn] 50-5071
- Performance of equipment for traffic report management systems. Obayashi, K., et al. [1992,jpn] 50-3137
- Portable shelter to protect bridges under construction from snow and cold. Kobayashi, Y., et al. [1992,jpn] 50-3134
- Possibilities and problems in the realization of snow-storage air conditioning systems. Umemura, T., [1988,jpn] 50-2278
- Possibilities of regional development by snow utilization. Taneda, M., [1988,jpn] 50-2280
- Possibility of using snow for home air conditioning. Nishioka, T., [1988,jpn] 50-2277
- Progress report on experimental projects for snowproof housing. Takayama, Y., [1988,jpn] 50-2287
- Promotion of industry in sparsely populated areas of heavy snow in Ishikawa Prefecture. Gomi, T., ed. et al. [1984,jpn] 50-2035
- Research on technology for conquering and exploiting snow. [1988,jpn] 50-2273
- Research report on snowproofing of houses. Uchida, Y., ed. [1984,jpn] 50-2291
- Resistance to snow damage by trees on slopes. Bojo, C., et al. [1995,jpn] 50-990
- Significance of social trends and snow cover. Oishi, T., [1988,jpn] 50-2050
- Snow and ice research in Japan during the past 50 years. Nakamura, T., [1995,jpn] 50-606
- Snow and industry. Itakura, K., [1988,jpn] 50-2051
- Snow and living conditions. Yoshino, M., ed. [1988,jpn] 50-2043
- Snow blowers. Kamimura, H., et al. [1992,jpn] 50-3135
- Snow cover and climate in Japan. Ishizaka, M., [1996,jpn] 50-6732
- Snow cover in the mountainous regions. Yoshida, Y., [1988,jpn] 50-2048
- Snow disasters and countermeasure against it. Ikarashi, T., [1995,jpn] 50-604
- Snow distribution in Japan. Shitara, H., [1988,jpn] 50-2045
- Snow melting on walkways at waterworks. Mikazuki, S., et al. [1992,jpn] 50-3139
- Snowmelt-induced earth and rock flows. Watanabe, N., et al. [1992,jpn] 50-3136
- Snowproof houses Plan 50. [1986,jpn] 50-2293
- Study of heavy snowfall in Tohoku District. [1989,jpn] 50-2040
- Study on estimating snow cover. [1983,jpn] 50-2042
- Study on integrated system design for regional development in snowy regions. [1989,jpn] 50-2039
- Study on the actual conditions of acid snow in Hokuriku District. Yoshikawa, S., [1992,jpn] 50-3133
- Technology assessment on systems for conquering and exploiting snow. [1987,jpn] 50-2289
- Trends in winter tires as seen in the patents. Iwasaki, S., [1995,jpn] 50-994
- Trends of the times related to snow. Yagasaki, T., [1988,jpn] 50-2049
- Urban snow disasters. Higashira, M., [1988,jpn] 50-2047
- US/Japan snow avalanche joint research projects, 1992 and 1993. Nagaoka Institute of Snow and Ice Studies, [1995,jpn] 50-6591
- Warning system for snow on power lines using neural networks. Ohta, H., et al. [1996,eng] 50-5355
- Winter ice in Okhotsk Sea and spring and summer climate in north Japan. Yamada, Y., [1996,jpn] 50-5903
- Winter road traffic census. Ueki, S., et al. [1992,jpn] 50-3140
- Japan Sea**
- Satellite radar survey of Japan Sea ice processes. Martin, S., et al. [1995,eng] 50-1810
- Japan, Sea**
- Aircraft observations of ice formation over the Japan Sea. Asuma, Y., et al. [1995,eng] 50-6716
- Arctic radioactive contamination from former Soviet Union sources. Bradley, D.J., [1992,eng] 50-5484
- Radioecological studies of radioactive contaminants in Ussury Bay, Sea of Japan. Soifer, V.N., [1995,eng] 50-5061
- Japan—Biwa, Lake**
- Snowmelt, global warming, and water level of Lake Biwa. Ikebuchi, S., [1992,eng] 50-3029
- Japan—Fuji, Mount**
- Germination properties of herb perennials on Mt. Fuji. Nishitani, S., et al. [1996,eng] 50-4343
- Seed germination and seedling growth of *Carex doerizii* growing on alpine zone of Mt. Fuji. Kibe, T., et al. [1993,eng] 50-956
- Japan—Hokkaido**
- Acid precipitation in Hokkaido (Part 2). Tani, A., et al. [1995,jpn] 50-6739
- Analysis of winter skid accidents in Sapporo City and Asahikawa City. Nagai, T., et al. [1995,jpn] 50-6792
- Analysis of winter skid accidents in Sapporo City. Nagai, T., et al. [1994,jpn] 50-2827
- Assessment of the design load of bridge piers constructed in rivers freezing over in winter. Yamauchi, T., et al. [1994,jpn] 50-2835
- Characteristics of freezing in five lakes within the jurisdiction of Kushiro. Toukairin, A., [1996,eng] 50-5908
- Chemical composition of acid snowfall in northern part of Hokkaido. Satoh, F., et al. [1996,jpn] 50-6727
- Cold storage of agricultural products in artificial permafrost. Tsuchiya, F., et al. [1992,eng] 50-40
- Construction of the Okhotsk frozen-sea observation tower. Sato, Y., et al. [1996,jpn] 50-5873
- Convergence band clouds along the west coast of Hokkaido. Kobayashi, F., et al. [1993,eng] 50-6040
- Countermeasure for ice floes overtopping over breakwater due to wave action. Sasajima, T., et al. [1996,jpn] 50-5883
- Countermeasures to prevent sea ice from intruding into Saroma Lagoon. Ishikawa, S., et al. [1996,jpn] 50-5890
- Current status of snow countermeasures on roads in the Soya district. Chiduru, Y., et al. [1995,jpn] 50-6797
- Design of girders for a bridge in Hokkaido subject to snow and wind. Endo, T., et al. [1995,jpn] 50-6807
- Development of road traffic information system responsive to driver telephone requests. Horikawa, T., et al. [1993,jpn] 50-2838
- Doppler radar observation of vortex-type snowstorm in Hokkaido. Shirooka, R., et al. [1994,eng] 50-6041
- Drift ice off Hokkaido. [1992,jpn] 50-486
- Effect of deicers on roadside trees in Hokkaido. Miyamoto, S., et al. [1995,jpn] 50-6788
- Effect of the popularization of studless tires on the road environment. Mima, H., et al. [1995,jpn] 50-6790
- Effect of the popularization of studless tires on traffic conditions. Horita, N., et al. [1995,jpn] 50-6789
- Effects of widespread use of studless tire on traffic conditions. Horita, N., et al. [1994,jpn] 50-2829
- Experimental pavement for road freezing countermeasures in Sapporo City. Katayama, K., et al. [1995,jpn] 50-6804
- Field observations of sun crust formation in Hokkaido, Japan. Ozeki, T., et al. [1996,eng] 50-5500
- Fixing frozen leaks in a dam in Hokkaido. Takada, K., et al. [1995,jpn] 50-6738
- Frost damage of concrete structures in Hokkaido. Yamashita, H., et al. [1995,eng] 50-2662
- Heavy snowfalls around Sapporo the winter of 1995/1996. Kanemura, N., et al. [1996,jpn] 50-4929
- Horizontal distribution of snowfall inland on Hokkaido. Lee, C.W., et al. [1972,jpn] 50-5791
- Illustrated Hokkaido forestry—towards well-developed forests. [1990,jpn] 50-2170
- Impact of deicing chemicals on plants in Hokkaido. Miyamoto, S., et al. [1994,jpn] 50-2828
- Lakes and marshes in Hokkaido. Sakata, Y., ed. et al. [1990,jpn] 50-2292
- Leakage resistance of iced insulators and chemical data of ice and snow. Sugawara, N., et al. [1996,eng] 50-5384
- Low-temperature period countermeasures during concrete jacking of the Satsunaigawa Dam. Yasunaka, S., et al. [1995,jpn] 50-6737
- Pedestrian slips and falls on icy roads. Takamori, M., et al. [1995,jpn] 50-6794
- Permafrost variation in Hokkaido since the last glacial maximum. Nakayama, T., [1995,jpn] 50-986
- Poles spaced along the road with overhead reflectors as lane markers in snow. Hirasawa, H., et al. [1994,jpn] 50-2837
- Radar echoes from winter monsoon clouds in Hokkaido. Kobayashi, F., et al. [1992,eng] 50-6645
- Relation of traffic to climate and road icing in downtown Sapporo. Matsuzawa, M., et al. [1995,jpn] 50-6791
- Research on cold region river. Yamashita, S., [1994,jpn] 50-2832
- Road surface covered with snow and ice and traffic accidents in Hokkaido. Takagi, H., [1995,jpn] 50-3512
- Roller compacted concrete for a cold region dam. Yasunaka, S., et al. [1995,eng] 50-2679
- Shipboard observations of ice conditions off the Okhotsk Sea coast. Shimoda, H., et al. [1996,jpn] 50-5898
- Skid resistance of asphalt concrete pavements. Abe, A., et al. [1994,jpn] 50-2830
- Snow fences in Hokkaido to improve visibility. Fukuzawa, Y., et al. [1995,jpn] 50-6799
- Snowfall distribution on the seaside of Hokkaido, Japan. Tachibana, Y., [1995,eng] 50-342
- Study on road surface countermeasures in winter. Hokkaido Development Bureau. Civil Engineering Research Institute, [1995,jpn] 50-6787
- Technological problems of fisheries civil engineering in frozen seas. Naganu, A., et al. [1996,jpn] 50-5891
- Thermal ice ridges or ramparts in Lake Kussharo. Toukairin, A., [1996,eng] 50-5909
- Tracks of forest roads in the privately owned forests of Hokkaido. [1990,jpn] 50-2294
- Using antiskid materials as road icing countermeasures. Miyamoto, S., et al. [1994,jpn] 50-2833
- Using sea ice as ice platforms and ice roads in fishery harbors. Okubo, Y., et al. [1996,jpn] 50-5889
- Wind tunnel experiments on snowbreaks for Hokkaido highways. Sasaki, M., et al. [1995,jpn] 50-6798
- Winter road surface conditions of national highways in Sapporo. Takahashi, K., et al. [1995,jpn] 50-6793
- Winter warning traffic signs in Hokkaido. Takayama, H., et al. [1995,jpn] 50-6796
- Japan—Honshu**
- Ski slope vegetation in central Honshu, Japan. Tsuyuzaki, S., [1995,eng] 50-1861
- Japan—Kyushu**
- Acid aerosols in rime on Kyushu, Japan. Nagafuchi, O., et al. [1995,eng] 50-4957
- Japan—Nagaoka**
- Long-term snow variations at Nagaoka, Japan. Nakamura, T., et al. [1996,eng] 50-4898
- Snow records in Nagaoka, 1913-1992. [1993,eng] 50-488
- Japan—Tokyo**
- Artificial freezing in Tokyo subway construction. Ito, H., et al. [1992,eng] 50-37
- Snow countermeasures on metropolitan expressways. Ishizawa, M., et al. [1988,jpn] 50-2282
- Jet engines**
- Flameout; preventing ice and water ingestion flameouts in high- and low-bypass turbine engines. [1989,eng] 50-2985
- Ice in the intake causes close call. [1990,eng] 50-3572
- Investigation into ice detection parameters for turboprop aircraft. Render, P.M., et al. [1996,eng] 50-4218
- Power loss in inclement weather. Volk, L., [1992,eng] 50-3796
- Turbine engine icing spray bar design issues. Bartlett, C.S., [1995,eng] 50-1654
- Jets**
- See [also]: Hydraulic jets
- Joints (junctions)**
- Design of ice booms. Foltyn, E.P., et al. [1996,eng] 50-6068
- Development of procedures for hot tap welding onto sour service pipelines. Felix, R.D., et al. [1991,eng] 50-1724
- Earthquake shock absorbers for bridges in cold regions. Sato, M., et al. [1993,jpn] 50-2839
- Method to prevent weld zone corrosion in offshore structures. DeGeer, D.D., et al. [1991,eng] 50-1726
- Study of concrete bridges exposed to deicing salts. Novokshchenov, V., [1989,eng] 50-4225

Kaolinite

- Towed geophone system for use in snow-covered terrain. King, E.C., et al. [1996,eng] 50-6225

Kaolinite

See [also]: Clay minerals

Karakoram Mountains

- Bibliography on the hydrology of the Himalaya-Karakoram region. Young, G.J., et al. [1996,eng] 50-5273
- Recent glacier fluctuations in the Himalaya and Karakoram. Yamada, T., et al. [1995,jpn] 50-1174

Karst

- Limestone karst morphology in the Himalayas of Nepal and Tibet. Waltham, A.C., [1996,eng] 50-4875
- Use of karst deposits in the French Jura for paleoclimatological analysis. Chaline, J., et al. [1995,eng] 50-1122

See [also]: Thermokarst

Kashmir

- Glacial and fluvial geomorphology of western Himalaya (Liddar Valley). Kaul, M.N., [1990,eng] 50-5550
- Late Quaternary glacial and climatic history of the Liddar Valley, Kashmir Himalaya. Kaul, M.N., [1994,eng] 50-5549

Kazakhstan

- Anthropogenic climate change and reduction of water resources. Golubtsov, V.V., et al. [1996,eng] 50-5055
- Features of the regime and dynamics of the East Aksu glacier in the Kungey Alatau range. Fateev, V.P., et al. [1973,rus] 50-429

Kazakhstan—Malaya Almatinka River

- Long range forecasting of avalanche regimes and some ecological changes on Zailiyskiy Alatau. Kondrashov, I.V., et al. [1991,rus] 50-9

Kazakhstan—Pskem River

- High-altitude distribution of the seasonal snow line in a mountain river basin. Tursunov, U.O., [1991,rus] 50-5

Kazakhstan—Shumys Glacier

- Asian glacier ice flow and mass continuity. Cherkasov, P.A., et al. [1996,eng] 50-6057

Kazakhstan—Syrdarya River

- River flow of organic matter and biogenic elements to the Aral Sea. Smirnov, M.P., [1991,rus] 50-732

Kazakhstan—Tien Shan

- Some surveys of snow chemistry in the Tien Shan of Kirghizstan and Kazakhstan. Kattelmann, R., et al. [1995,eng] 50-2411

Kazakhstan—Ust'-Kamenogorsk

- Forecasting snowstorm avalanches along the Ust'-Kamenogorsk-Zhynanovsk highway. Kolesnikov, E.I., et al. [1991,rus] 50-10

Kazakhstan—Zailiyskiy Alatau

- Long range forecasting of avalanche regimes and some ecological changes on Zailiyskiy Alatau. Kondrashov, I.V., et al. [1991,rus] 50-9

- Tien Shan: trends of changes in the geocryological conditions. Gorbunov, A.P., et al. [1996,rus] 50-6841

Kazakhstan—Zhynanovsk

- Forecasting snowstorm avalanches along the Ust'-Kamenogorsk-Zhynanovsk highway. Kolesnikov, E.I., et al. [1991,rus] 50-10

Kenya—Kenya, Mount

- Population biology of Mount Kenya lobelias. Young, T.P., [1994,eng] 50-3057

- Population biology of *Senecio keniodendron* (Asteraceae) and Afroalpine giant rosette plant. Smith, A.P., et al. [1994,eng] 50-3058

- Soil nutrient dynamics in East African alpine ecosystems. Rehder, H., [1994,eng] 50-3055

Kits

- Purification kit for potabilizing meltwater. Gopal, R., et al. [1991,eng] 50-3402

Korea

- Snow parameters for vehicle mobility modeling. Horrigan, T., et al. [1995,eng] 50-2708

Kyrgyz Range

- Genesis of mountain-meadow and mountain-meadow-steppe chernozem-like soils. Evdokimova, T.I., et al. [1995,rus] 50-3972

Kyrgyzstan

- Features of the regime and dynamics of the East Aksu glacier in the Kungey Alatau range. Fateev, V.P., et al. [1973,rus] 50-429

Kyrgyzstan—Alaarcha River

- Some results of integrated studies of the Alaarcha River basin. Tsytsenko, K.V., [1973,rus] 50-428

Kyrgyzstan—Sandalash River

- High-altitude distribution of the seasonal snow line in a mountain river basin. Tursunov, U.O., [1991,rus] 50-5

Kyrgyzstan—Sarydzhar River

- Glacier runoff in the Sarydzhar River basin. Kononov, V.G., et al. [1991,rus] 50-16

Kyrgyzstan—Tien Shan

- Some surveys of snow chemistry in the Tien Shan of Kirghizstan and Kazakhstan. Kattelmann, R., et al. [1995,eng] 50-2411

Labor factors

- Disorder of organizational logic—makework among members of bureaucratic organizations. Masuch, M., et al. [1996,eng] 50-5671

- Painting fuel storage facilities with local labor in Nunavut. Prinsloo, H.F., [1996,eng] 50-5948

- Private enterprise employment of Greenlanders at Thule Air Base. Sørensen, P.E., [1995,eng] 50-2970

- Significance of social trends and snow cover. Oishi, T., [1988,jpn] 50-2050

- Trends of the times related to snow. Yagasaki, T., [1988,jpn] 50-2049

Laboratories

- Nagaoka Institute of Snow and Ice Studies. [1992,jpn] 50-489
- Scientific Seminar of the Laboratory on Avalanches and Mudflows of Moscow State University. Bozhinskii, A.N., [1972,rus] 50-550

Laboratory techniques

- Atomic emission spectrometry of Greenland snow lead impurities. Kobiński, R., et al. [1995,eng] 50-4082

- Comparative analytical techniques for glacial diamicton studies. Walden, J., et al. [1996,eng] 50-6537

- Cryo-ultramicrotomy of individual latex particles for examination of internal morphology. Marcelli, A.M., [1995,eng] 50-4958

- Electric field effects on growing ice surface force curves. Slaughterbeck, C.R., et al. [1996,eng] 50-5939

- Enhanced preservation of volatile organic compounds in soil with sodium bisulfate. Hewitt, A.D., [1995,eng] 50-2566

- Fracture toughness of freshwater ice—part I: experimental technique and results. Weber, L.J., et al. [1996,eng] 50-5158

- Freeze preparation of plant tissue for electron microscopy. Adler, K., et al. [1996,eng] 50-5485

- Geophysical and laboratory methods for studying the mechanical characteristics of permafrost. Mamzelev, A.P., [1996,rus] 50-6833

- Handling practice effects on soil sample chemistry. Hewitt, A.D., [1996,eng] 50-5962

- High strength concrete—freeze/thaw testing and cracking. Jacobsen, S., et al. [1995,eng] 50-3700

- How to paint a snowflake. Benko, J.J., [1995,eng] 50-6205

- Interpretation of field measurements for ice engineering applications. Gold, L.W., [1996,eng] 50-5050

- Laboratory exercise introducing glacial geomorphology. Harbor, J.M., et al. [1995,eng] 50-3861

- Liquefaction resistance of silty sand based on in situ frozen samples. Yoshimi, Y., et al. [1996,eng] 50-5080

- Making an ice core. Kopsaka-Merkel, D.C., [1995,eng] 50-1150

- Method for continuous measurement of ice cover thickness. Nordell, B., et al. [1995,eng] 50-1145

- New simple route to the synthesis of protease substrates in ice. Ullmann, D., et al. [1996,eng] 50-6713

- Obtaining and transferring soils for in-vial analysis of volatile organic compounds. Hewitt, A.D., et al. [1996,eng] 50-4547

- Pre-analysis of soil organic compound holding times. Hewitt, A.D., [1996,eng] 50-5961

- Preliminary assessment of design and performance of frost susceptibility testing facilities. Dudek, S., [1977,eng] 50-2313

- Proceedings. Colloquium on Frost Heave Testing and Research. Nottingham, England, May 18, 1977, [1977,eng] 50-2311

- Quantitative cold differential thermal analysis. Dunn, J.R., et al. [1965,eng] 50-4739

- Rapid test for the determination of frost susceptibility of soils. Leary, R.M., [1977,eng] 50-4259

- Sample representativeness: The missing element in explosives site characterization. Jenkins, T.F., et al. [1996,eng] 50-5960

- Scanning electron microscopy of free water in frozen plant tissues. Yaklich, R.W., et al. [1996,eng] 50-5209

- Self healing of high strength concrete after deterioration by freeze/thaw. Jacobsen, S., et al. [1996,eng] 50-3725

- Snow crystal imaging using scanning electron microscopy: I. Precipitated snow. Rangno, A., et al. [1996,eng] 50-4566

- Variations on the Schaeffer replication technique for snowflakes. Benko, J.J., [1995,eng] 50-3613

- Vitrification of articular cartilage by high-pressure freezing. Studer, D., et al. [1995,eng] 50-6589

- X-ray analysis of ion distribution in frozen salt droplets. Orlovich, D.A., et al. [1995,eng] 50-6590

Labrador Sea

- Clay mineral signature of the NW Atlantic Boundary Undercurrent. Fagel, N., et al. [1996,eng] 50-4822

- Ice rafting sources for Younger Dryas detrital carbonate in the North Atlantic. Andrews, J.T., et al. [1995,eng] 50-1564

- Isotope tracking of Pleistocene ice-rafted debris. Gwiazda, R.H., et al. [1996,eng] 50-4399

- Labrador Sea atmospheric circulation/sea-ice anomalies. Newell, J.P., [1996,eng] 50-6227

- Microwave imaging of Labrador Sea thin sea ice. Collins, M.J., et al. [1996,eng] 50-2701

- Numerical case study of a polar low in the Labrador Sea. Mailhot, J., et al. [1996,eng] 50-5869

- Paleoglacial events on Baffin Island, Labrador Sea. Fillon, R.H., et al. [1981,eng] 50-3621

- Polar lows in the Labrador Sea—a case study. Moore, G.W.K., et al. [1996,eng] 50-3821

- Quantification of the reliability of iceberg management off eastern Canada. Goodridge, D.N., et al. [1995,eng] 50-2947

- Quaternary sedimentary processes and budgets in Orphan Basin, southwestern Labrador Sea. Hiscott, R.N., et al. [1996,eng] 50-4579

Lacustrine deposits

- 10,000-years dynamics of limnic ecosystems and climatic change. Salonen, V.-P., et al. [1994,eng] 50-3182

- 12,000 year radiocarbon date of deglaciation from the continental divide of northwestern Montana. Carrara, P.E., [1995,eng] 50-3299

Lacustrine deposits

- 20th-century glacial-marine sedimentation in Vitus Lake, Bering Glacier, Alaska, U.S.A. Molnia, B.F., et al. [1996,eng] 50-6262

- Applications of freshwater diatoms to geographical research. Moser, K.A., et al. [1996,eng] 50-5013

- Bacterial activity in the Schirmacher Ponds in summer. Ramaiya, N., [1995,eng] 50-1281

- Basic characteristics and paleoclimatic evolution of Qarhan Salt Lake. Chen, K.Z., et al. [1986,chi] 50-1984

- Biostratigraphic evidence of an Icelandic paleoclimatic oscillation. Rundgren, M., [1995,eng] 50-2017

- Boreal ecosystem development in the northwestern Alaska Range since 11,000 yr B.P. Hu, F.S., et al. [1996,eng] 50-4581

- Carbonate minerals in glacial sediments: geochemical clues to palaeoenvironment. Fairchild, I.J., et al. [1990,eng] 50-925

- Catastrophic drainage from ice-dammed glacial Lake Assiniboine. Wolfe, B., et al. [1995,eng] 50-4881

- Changes in the Late Cenozoic environment of the Gonghe Basin in Qinghai. Xu, S.Y., [1986,chi] 50-1983

- Chemistry of salt minerals and their depositional environment in the Qaidam Basin. Dong, J.H., [1986,chi] 50-1988

- Comment and reply on paper by Batterson et al. Brooks, I.A., et al. [1995,eng] 50-1083

- Contributions to research on Tibet. Pörtge, K.H., ed. et al. [1994,ger] 50-4774

- Cryolithological structure of Quaternary deposits on Wrangel Island. Kotov, A.N., et al. [1996,rus] 50-6379

- Danish lacustrine sediment evidence of paleoclimatological variability. Hammarlund, D., et al. [1996,eng] 50-5826

- Deforming bed conditions on the Dänischer Wohld Peninsula, northern Germany. Hart, J.K., et al. [1996,eng] 50-6536

- Depositional sequences in glaciolacustrine deltas. Gustavson, T.C., et al. [1975,eng] 50-4818

- Deposits from the Warta Glaciation against a background of Pleistocene deposits. Lisicki, S., [1993,pol] 50-3663

- Desert and lake deposits in the Taldimakan Desert. Endo, K., et al. [1991,jpn] 50-1423

- Diatom distribution on Baffin Island, Canada. Wolfe, A.P., [1996,eng] 50-6514

- Drill cores from Qarhan Salt Lake. Yang, S.X., [1992,chi] 50-1488

- Early Holocene environment on Bjørnøya from lake sediments. Wohlfarth, B., et al. [1995,eng] 50-4721

- Effect of diagenesis on the cryogenic structure of marine and lacustrine deposits. Khimenkov, A.N., et al. [1985,rus] 50-245

- Evidence of paleoclimatic snow melt in lacustrine mountain deposits. Norris, R.D., et al. [1996,eng] 50-5082

- Features of potash sedimentation in the upper salt layer (S₄) in the Qarhan Salt Lake. Li, B.X., et al. [1992,chi] 50-1487

- Forest changes in the Great Lakes region at 5-7 ka BP. Anderson, T.W., [1995,eng] 50-1456

- Fossil charophytes from the Qaidam Basin. Tang, L.H., et al. [1991,chi] 50-2032

- Geochemical evolution and paleoclimatology of a salt lake in the Qaidam Basin. Han, F.Q., et al. [1995,chi] 50-4126

- Geomorphological studies on the arid regions of northwest China. Yang, X.P., [1991,ger] 50-2770

- Glaciofluvial and glaciolacustrine sedimentation. Jopling, A.V., ed. et al. [1975,eng] 50-4806

- Glaciolacustrine environments. Ashley, G.M., [1995,eng] 50-3593

- Gould Pond, Maine: late-glacial transitions from marine to upland environments. Anderson, R.S., et al. [1992,eng] 50-2561

- Holocene debris-flow activity in northern Sweden. Jonasson, C., [1993,eng] 50-837

- Holocene environmental changes in a Tibetan lake basin, pt. 1. Fontes, J.C., et al. [1996,eng] 50-5090

- Holocene environmental changes in a Tibetan lake basin, pt. 2. Van Campo, E., et al. [1996,eng] 50-5091

- Holocene environmental changes in a Tibetan lake basin, pt. 3. Fan, H., et al. [1996,eng] 50-5092

- Holocene environmental changes in a Tibetan lake basin, pt. 4. Gasse, F., et al. [1996,eng] 50-5093

- Holocene subalpine lake fluctuations in France. Magny, M., [1992,eng] 50-2560

- Holocene evolution of a stretch of an eastern Italian alpine valley. Friz, C., et al. [1995,eng] 50-6697

- Iceberg furrows as paleowind indicators in Lake Ojibway. Veilleux, J.J., et al. [1996,eng] 50-2498

- Iceland paleoclimatology dynamics from volcanic ash in lacustrine deposits. Björck, S., et al. [1992,eng] 50-2547

- Impact crater lakes on Mars. Newsom, H.E., et al. [1996,eng] 50-5777

- Lake surface pollen sediments across the Siberian tree line. Clayden, S.L., et al. [1996,eng] 50-6746

- Late Cenozoic geology and environmental evolution of the Qaidam Basin in Qinghai. [1986,chi] 50-1981

- Late glacial sedimentation and history of the Lake Nipigon Basin, Ontario. Lemoine, R.M., et al. [1995,eng] 50-4880

- Late Pleistocene environment of north China. Zheng, H.H., et al. [1991,chi] 50-1844

- Late Pleistocene-Holocene diatom record and paleoenvironment of Bangong Lake, Western Tibet. Fan, H., et al. [1994,eng] 50-1532

- Late Quaternary climatic fluctuations of the Venezuelan Andes. Yuretic, R., ed. [1991,eng] 50-5643

- Late Quaternary lake-level record from northern Eurasia. Harrison, S.P., et al. [1996,eng] 50-4578

Lagoons

- Late Quaternary sediments of the Qinghai-Xizang Plateau. Frenzel, B., et al. [1994,ger] 50-4779
- Late Quaternary vegetation variations in western Beringia. Anderson, P.M., et al. [1996,eng] 50-4341
- Late Weichselian to early Holocene sedimentation in eastern Svalbard. Möller, P., et al. [1995,eng] 50-4716
- Late-glacial and early Holocene vegetation of Snowdonia. Ince, J., [1996,eng] 50-4254
- Lithium and boron geochemistry of salt lakes in the Qaidam Basin. Zheng, X.Y., [1986,chi] 50-1992
- Marine record of the Russell Fjord outburst flood, Alaska. U.S.A. Cowan, E.A., et al. [1996,eng] 50-6260
- Near-shore Baltic ice lake deposits in Fakse Bugt, southeast Denmark. Bennike, O., et al. [1995,eng] 50-1798
- Neoglaciation and vegetation change in British Columbia. Clague, J.J., et al. [1996,eng] 50-4332
- New development in the study on Carboniferous biostratigraphy in northern Xinjiang. Liao, Z.T., et al. [1993,chi] 50-2356
- New radiocarbon dates for the Vedde ash and the Saksunarvatn ash from western Norway. Birks, H.H., et al. [1996,eng] 50-4576
- On the paleoclimatology of the Tibetan Plateau during the last glaciation. Frenzel, B., [1994,ger] 50-4777
- Organic compounds in a permafrost sediment core from Siberia. Matsumoto, G.I., et al. [1995,eng] 50-3844
- Origin of sylvites and salts in the Qaidam Basin. Yang, Q., [1986,chi] 50-1987
- Paleoecology of two lake basins from Disko, West Greenland. Bennike, O., [1995,eng] 50-1081
- Paleoclimatic atmospheric chemical changes inferred from fossil leaf density. Beerling, D.J., et al. [1995,eng] 50-6563
- Paleoclimatic change from Lake Baikal sediments. Edgington, D.N., et al. [1996,eng] 50-6633
- Paleoclimatic implications of Swedish lake-level fluctuations. Almquist-Jacobson, H., [1995,eng] 50-2716
- Paleoclimatological implications of lacustrine ostracod ecology. Heaton, T.H.E., et al. [1995,eng] 50-2859
- Paleoclimatological import of Himalayan tree pollenological samples. Nakagawa, T., et al. [1996,eng] 50-4745
- Paleoclimatological significance of Quaternary diatom lake deposits in Qinghai-Xizang (Tibet). Li, J.Y., et al. [1994,eng] 50-1536
- Paleoecological study of fire-induced lake water acidity variations. Korhola, A., et al. [1996,eng] 50-5020
- Paleoecology of arctic lake sediment macrofossils. Birks, H.H., [1991,eng] 50-3305
- Paleoecology of Finnish lacustrine deposits. Sarmaja-Korjonen, K., [1995,eng] 50-4738
- Paleoenvironmental history of a Canadian freshwater lake. Hickman, M., et al. [1996,eng] 50-6696
- Paleogeographic implications of ostracod fauna in Karakorum Mountain lacustrine deposits. Li, Y.F., et al. [1994,eng] 50-1537
- Paleohydrological changes in French mountains due to paleoclimatic changes. Magny, M., [1995,eng] 50-5038
- Paleomagnetic age constraints on New Zealand glacial deposits. Fitzsimons, S.J., et al. [1996,eng] 50-6576
- Palyonology and sediment slumping in a high arctic Greenland lake. Fredskild, B., [1995,eng] 50-3368
- Palyonology of the Quaternary glaciolacustrine deposits of Mount Xixia Bangma. Chen, S.M., et al. [1982,chi] 50-6604
- Patterns of early lake ontogeny in Glacier Bay as inferred from diatom assemblages. Fritz, S.C., et al. [1995,eng] 50-3750
- Pleistocene alpine tundra in northern Chile. Kott, A., et al. [1995,eng] 50-4947
- Pleistocene geomorphology of Qinghai Lake. China. Nakao, K., et al. [1995,eng] 50-6717
- Pleistocene glacial lake sedimentology, Scotland. Benn, D.I., [1996,eng] 50-5827
- Pleistocene lacustrine record of a Chinese lake. Rhodes, T.E., et al. [1996,eng] 50-5095
- Pleistocene-Holocene transition in Sweden. Lord, A.R., [1990,eng] 50-931
- Pollen assemblages from a borehole in Dabsan Lake. Du, N.Q., et al. [1986,chi] 50-1986
- Pollen assemblages from small Canadian arctic lakes. Gajewski, K., [1995,eng] 50-966
- Postglacial sedimentation in the Liefdefjord area, NW Spitsbergen. Baumhauer, R., et al. [1994,ger] 50-1581
- Proceedings [1994,eng] 50-1531
- Qinghai Lake paleohydrological variations due to climatic changes. Nakao, K., et al. [1995,eng] 50-6718
- Quaternary eolian deposits at a salt lake in the Qaidam Basin. Wang, J.D., et al. [1986,chi] 50-1994
- Quaternary geology of the Buchans area, Newfoundland: implications for mineral exploration. Klassen, R.A., et al. [1996,eng] 50-6634
- Radioactive dating of pollen deposits in a Swedish lake. Regnell, J., [1992,eng] 50-2562
- Radiocarbon balances of two Tibetan Lakes from 13,000 BP. Fontes, J.C., et al. [1993,eng] 50-5027
- Radiocarbon date list VIII: Canada, Greenland, Iceland, and Antarctica. Manley, W.F., ed. et al. [1996,eng] 50-5927
- Radiocarbon dating of the Goti-Fingilgati boundary of the Swedish Time Scale. Brunnberg, L., et al. [1992,eng] 50-2551
- Radiocarbon geochemistry of modern and ancient arctic lake systems, Baffin Island, Canada. Abbott, M.B., et al. [1996,eng] 50-5190
- Research on clay minerals in salt lakes of China. Xu, C., [1993,chi] 50-1850

- Review of multi-proxy data for the Younger Dryas in Atlantic Canada. Mayle, F.E., et al. [1995,eng] 50-4624
- Revision of the lateglacial Swedish varve chronology. Strömberg, B., [1990,eng] 50-1791
- Rhythmic sedimentation in Glacial Lake Hitchcock, Massachusetts-Connecticut. Ashley, G.M., [1975,eng] 50-4820
- Salt lakes in Xizang. Zheng, X.Y., et al. [1988,chi] 50-1848
- Salt lakes of Inner Mongolia. Zheng, X.Y., et al. [1992,chi] 50-1849
- Salt lakes of Qaidam Basin. Zhang, P.X., et al. [1987,chi] 50-1845
- Sedimentary environments associated with glacial Lake Tringham, Norfolk, UK. Hart, J.K., [1992,eng] 50-2554
- Sedimentary successions in Pleistocene ice-marginal lakes. Shaw, J., [1975,eng] 50-4819
- Sedimentation and physical limnology in proglacial Malaspina Lake, southeastern Alaska. Gustavson, T.C., [1975,eng] 50-4817
- Sedimentation in glacier-fed Peyto Lake. Chikita, K., [1992,eng] 50-6642
- Sedimentology of the Brampton esker in Ontario. Saunderson, H.C., [1975,eng] 50-4812
- Sequence analysis of Canadian glaciolacustrine deposits. Martini, I.P., et al. [1995,eng] 50-1084
- Shrinking of Quaternary lakes and environmental changes on the Tibetan Plateau. Zhao, Y.T., [1994,eng] 50-4781
- Skógar Tephra, a Younger Dryas marker in North Iceland. Nordahl, H., et al. [1992,eng] 50-2548
- Soils and melon cultivation in Jiashi County, Xinjiang. Li, P.Q., et al. [1991,chi] 50-5123
- Some geological problems regarding salt lakes on the Qinghai-Xizang Plateau. Zhang, P.X., [1986,chi] 50-1985
- Some paleomagnetic study results in the Kuntuyi Lake region of the Qaidam Basin. An, Z.S., [1986,chi] 50-1993
- Stratigraphy of slope deposits and soils in the northeastern Great Basin and vicinity. Kleber, A., [1993,eng] 50-1681
- Vegetation of the continental Northwest Territories at 6 ka BP. MacDonald, G.M., [1995,eng] 50-1452
- Vegetational history of western Alaska during the Wisconsin glacial interval and the Holocene. Ager, T.A., [1982,eng] 50-3372
- Warta Glaciation deposits within the non-glaciated zone in the Polesie Lubelskie. Wojtanowicz, J., [1993,pol] 50-3668
- Weichselian chronostratigraphy and correlations. Möner, N.A., [1981,eng] 50-3624
- Zooplankton communities of lakes in Glacier Bay National Park. Olson, O.G., et al. [1995,eng] 50-3751
- Lagoons**
- Intermittent-discharge lagoons for use in cold regions. Prince, D.S., et al. [1995,eng] 50-1840
- Lake bursts**
- 1994 Luge Tsho glacial lake outburst flood, Bhutan Himalaya. Watanabe, T., et al. [1996,eng] 50-4236
- Catastrophic drainage from ice-dammed glacial Lake Assiniboine. Wolfe, B., et al. [1995,eng] 50-4881
- Danger of lake burst flooding from a Himalayan glacial lake. Watanabe, T., et al. [1995,eng] 50-3338
- Eruption-triggered flood from a glacier-clad volcano in Columbia. Thoutet, J.C., et al. [1995,eng] 50-4830
- Exceptional storm and its effects in the Canadian High Arctic. Cogley, J.G., et al. [1976,eng] 50-3679
- Floods resulting from glacial lake outbursts. Yrquiang River basin, Xinjiang, China. Li, J., et al. [1994,eng] 50-1535
- Hudson Bay-Hudson Strait jokulhlaups and Heinrich events: a hypothesis. Johnson, R.G., et al. [1995,eng] 50-354
- Identification of elements of fluvio-glacial shapes characteristic of glacial outbursts. Robitaille, A., et al. [1995,eng] 50-5041
- Jökulhlaup from Katla in 1918. Tómasson, H., [1996,eng] 50-6268
- Late Wisconsinan outwash in southeastern British Columbia. Clague, J.J., [1975,eng] 50-4815
- Marine record of the Russell Fjord outburst flood, Alaska. U.S.A. Cowan, E.A., et al. [1996,eng] 50-6260
- Progress in glaciology and Quaternary glaciation research in China since 1978. Shi, Y.F., et al. [1995,eng] 50-4510
- Regional-scale meltwater erosion and deposition patterns, northern Quebec, Canada. Brennand, T.A., et al. [1996,eng] 50-6244
- Role of sediment transport in the mechanics of jokulhlaups. Fowler, A.C., et al. [1996,eng] 50-6269
- Sediment discharge from an Alaskan surging glacier. Merrand, Y., et al. [1996,eng] 50-6266
- Stability of water flow in glaciers. Szilder, K., et al. [1996,eng] 50-6436
- Subglacial lake burst variations in Iceland. Gudmundsson, M.T., et al. [1995,eng] 50-449
- Survey of calving causing flood waves at the Grubengletscher. Haeblerli, W., [1975,ger] 50-3952
- Lake effects**
- Estimating soil temperatures and frost in the lake effect snow-belt region, Michigan. USA. Isard, S.A., et al. [1995,eng] 50-1140
- Ground-based radar for measuring snowfall rate. Houck, R.E., et al. [1995,eng] 50-3109
- Large eddy simulation of the turbulent flow in a marine convective boundary layer with snow. Rao, G.S., et al. [1996,eng] 50-3683
- Mesoscale structures along wind-parallel bands in lake-effect snows. Kristovich, D.A.R., [1993,eng] 50-5249

- Numerical simulation of land-breeze-induced snowbands along the western shore of Lake Michigan. Ballentine, R.J., [1982,eng] 50-3648
- Observational studies and numerical simulations of marine convective boundary layers. Rao, G.S., [1994,eng] 50-673
- SSM/I time series observations of Great Lakes ice and snow. Pilant, D., [1995,eng] 50-3107
- Synoptic approach to forecasting lake-effect snowfall. Ellis, A.W., et al. [1996,eng] 50-6062
- Two-year simulation of the Great Lakes region with a coupled modeling system. Bates, G.T., et al. [1995,eng] 50-1566
- Winter 1994 weather and ice conditions for the Laurentian Great Lakes. Assel, R.A., et al. [1996,eng] 50-3294
- Lake ice**
- Analysis of coastal ice cover using ERS-1 SAR data. Leshkevich, G., et al. [1995,eng] 50-1822
- Bacterial activity in the Schirmacher Ponds in summer. Ramiah, N., [1995,eng] 50-1281
- Characteristics of freezing in five lakes within the jurisdiction of Kushiro. Toukairin, A., [1996,eng] 50-5908
- Chemical correlates of Hg and methyl-Hg in northern Wisconsin lake waters under ice-cover. Watras, C.J., et al. [1995,eng] 50-2125
- Climatology and perennial lake ice at Burger Hills. Doran, P.T., et al. [1996,eng] 50-6416
- Crack velocities in freshwater and saline ice. Petrenko, V.F., et al. [1996,eng] 50-5299
- Design of ice booms. Foltyn, E.P., et al. [1996,eng] 50-6068
- Distribution of under-ice and ice phytoplankton in Lake Baykal. Zavoruev, V.V., et al. [1995,rus] 50-4106
- Ecology and physiology of psychrophilic bacteria from antarctic saline lakes and sea-ice. Nichols, D.S., et al. [1995,eng] 50-4086
- Energy-balance model of lake-ice evolution. Liston, G.E., et al. [1995,eng] 50-457
- Field measurements of ice loads: thermal loads on hydro-electric structures. Comfort, G., et al. [1994,eng] 50-853
- Great Lakes ice cover studies. U.S. National Oceanic and Atmospheric Administration. Great Lakes Environmental Research Laboratory (GLERL), Ann Arbor, MI. [1995,eng] 50-2479
- Heat and dissolved oxygen transport processes in ice-covered lakes. Ellis, C.R., [1994,eng] 50-373
- Ice effects on Mackenzie River hydraulics at the outlet of Great Slave Lake. Chen, X.B., [1993,eng] 50-377
- Ice management in Lac St. Pierre. Carter, D., et al. [1995,eng] 50-4043
- Ice passage. [1996,eng] 50-4621
- Ice protection for water intakes of the Perry Nuclear Power Plant. Wahanik, R.J., et al. [1976,eng] 50-884
- Impact crater lakes on Mars. Newsom, H.E., et al. [1996,eng] 50-5777
- Indentation pressure in ice/vertical structure interaction. Takeuchi, T., et al. [1995,eng] 50-2738
- Internal melt figures in Japanese pond ice and microparticles in antarctic ice cores. Higashi, A., [1996,jpn] 50-4931
- Jet-cutting as an ice-breaking aid. Preliminary report on field tests for U.S. Coast Guard. Mellor, M., et al. [1973,eng] 50-3762
- Lake Erie ice scour study. Lake, K., [1991,eng] 50-491
- Lake ice and its remote sensing monitoring in the Tibetan Plateau. Chen, X.Z., et al. [1995,chi] 50-5634
- Model of shoreward movement of grounded lake ice. Sasaki, T., et al. [1995,eng] 50-3329
- Modeling the effects of climatic change on lakes. Frisk, T., et al. [1994,eng] 50-3198
- Monitoring winter hydrologic characteristics of lakes by microwave radiometry. Bordonkii, G.S., et al. [1995,eng] 50-1402
- New estimation of morphometrical characteristics of Lake Ladoga. Naumenko, M.A., [1995,rus] 50-4123
- Origin of salt in lakes and ponds of the McMurdo Dry Valleys. Takamatsu, N., et al. [1995,eng] 50-3697
- Physical limnological processes under ice. Kenney, B.C., [1996,eng] 50-6578
- Planktonic communities of melt ponds on the McMurdo Ice Shelf, Antarctica. James, M.R., et al. [1995,eng] 50-1282
- Quaternary geology and cryogenic structure of Taymyr. Derivation, A.I.U., et al. [1996,rus] 50-6375
- Satellite observation of lake ice as a climate indicator. Wynne, R.H., et al. [1993,eng] 50-2862
- Satellite SAR identification of lake water resources on the North Slope. Jeffries, M.O., et al. [1996,eng] 50-6177
- Simulation and observation of ice formation (freeze-over) in a lake. Fang, X., et al. [1996,eng] 50-5466
- Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces. Zibordi, G., et al. [1996,eng] 50-5467
- SSM/I time series observations of Great Lakes ice and snow. Pilant, D., [1995,eng] 50-3107
- Studies on the method of image processing and analysis of lake ice and snow. Li, W.J., et al. [1995,chi] 50-3995
- Thermal ice ridges or ramparts in Lake Kussharo. Toukairin, A., [1996,eng] 50-5909
- Thermodynamic model of lake ice formation and melting. Dmitriev, N.V., [1995,eng] 50-5480
- Two-year simulation of the Great Lakes region with a coupled modeling system. Bates, G.T., et al. [1995,eng] 50-1566
- Winter 1994 weather and ice conditions for the Laurentian Great Lakes. Assel, R.A., et al. [1996,eng] 50-3294
- Lake water**
- Application of lake temperature model for predicting the effect of climatic change. Virta, J., et al. [1994,eng] 50-3200

Lakes

Land reclamation

- Atmospheric carbon emission from North Asian lakes: a factor of global significance. Semiletov, I.P., et al. [1996,eng] 50-5609
- Bacterial ecosystem dynamics in a high mountain lake. Alfrieder, A., et al. [1996,eng] 50-5681
- Biogeochemical cycling in a seasonally anoxic lake. Hamilton-Taylor, J., et al. [1996,eng] 50-5818
- Chemical correlates of Hg and methyl-Hg in northern Wisconsin lake waters under ice-cover. Watras, C.J., et al. [1995,eng] 50-2125
- Comment on paper by Schaefer et al. Davies, T.D., et al. [1996,eng] 50-3647
- Evidence of paleoclimatic snow melt in lacustrine mountain deposits. Norris, R.D., et al. [1996,eng] 50-5082
- Heat and dissolved oxygen transport processes in ice-covered lakes. Ellis, C.R., [1994,eng] 50-373
- Hydrochemistry of remote high altitude lakes in the Himalayan region. Gosso, E., et al. [1993,eng] 50-4548
- Hydrological research on rivers and lakes in the Tibetan Plateau. Pörtge, K.H., [1994,ger] 50-4787
- Lakes and marshes in Hokkaido. Sakata, Y., ed, et al. [1990,jpn] 50-2292
- Modeling the effects of climate change on lakes. Frisk, T., et al. [1994,eng] 50-3198
- New estimation of morphometrical characteristics of Lake Ladoga. Naumenko, M.A., [1995,rus] 50-4123
- Paleoecological study of fire-induced lake water acidity variations. Korhola, A., et al. [1996,eng] 50-5020
- Patterns of early lake ontogeny in Glacier Bay as inferred from diatom assemblages. Fritz, S.C., et al. [1995,eng] 50-3750
- Pesticide degradation in an arctic lake and watershed. Falconer, R.L.M., et al. [1995,eng] 50-1131
- Saline-lake resources on the Qinghai-Xizang Plateau and their developed prospect. Zheng, M.P., [1992,chi] 50-1486
- Satellite SAR identification of lake water resources on the North Slope. Jeffries, M.O., et al. [1996,eng] 50-6177
- Soluble salts and heavy hydrogen in Bosten Lake. Huang, Z.W., et al. [1991,chi] 50-5134
- Subarctic lake pollution by gold mine arsenic effluent. Bright, D.A., et al. [1996,eng] 50-4207
- Transient hydrogeological controls on the chemistry of a seepage lake. Krabbenhoft, D.P., et al. [1995,eng] 50-2730
- Tree-ring dating of extreme water level events at Lake Bienville, subarctic Quebec, Canada. Lepage, H., et al. [1996,eng] 50-4339
- Ultraviolet radiation effects on arctic lake water organic chemistry. Scully, N.M., et al. [1996,eng] 50-5820
- Lakes**
- 10,000-years dynamics of limnic ecosystems and climatic change. Salonen, V.-P., et al. [1994,eng] 50-3182
- Application of lake temperature model for predicting the effect of climatic change. Virta, J., et al. [1994,eng] 50-3200
- Distribution characteristics of taliks beneath lakes in the Bovenko region. Anan'eva, G.V., et al. [1996,rus] 50-6360
- Dynamics of heat exchange between sediment and water in a lake. Fang, X., et al. [1996,eng] 50-5970
- Effect of the geographic environment on the occurrence of surface waters from a terraced tundra plain. Szczepanik, W., [1989,pol] 50-2918
- Evaporation from a small lake in the continental Arctic using multiple methods. Gibson, J.J., et al. [1994,eng] 50-5694
- Glaciers and lakes in the Tianshan Mountains as indicators of climatic change. Hu, R.J., et al. [1994,eng] 50-3998
- Great lake under the ice. Ellis-Evans, J.C., et al. [1996,eng] 50-5601
- Holocene subalpine lake fluctuations in France. Magny, M., [1992,eng] 50-2560
- Impact of climate change on carbon cycle in freshwater ecosystems. Kankaala, P., et al. [1994,eng] 50-3201
- Inventory of Antarctic sub-glacial lakes. Siebert, M.J., et al. [1996,eng] 50-6415
- Lakes and hydropower in Xizang. Wang, Y.L., [1992,chi] 50-1481
- Lakes and marshes in Hokkaido. Sakata, Y., ed, et al. [1990,jpn] 50-2292
- Modeling the effects of climate change on lakes. Frisk, T., et al. [1994,eng] 50-3198
- Modeling the effects of climatic change on phosphorus transport from a drainage basin. Bilaletdin, A., et al. [1994,eng] 50-3199
- Morphometric characteristics of current glaciation in the mountains of Central Asia. Dolgushin, L.D., et al. [1972,rus] 50-528
- New estimation of morphometrical characteristics of Lake Ladoga. Naumenko, M.A., [1995,rus] 50-4123
- Paleoclimatic implications of Swedish lake-level fluctuations. Almquist-Jacobson, H., [1995,eng] 50-2716
- Paleoclimatic interpretation of topographic variations in Tibetan lake shorelines. Avouac, J.P., et al. [1996,eng] 50-5094
- Rivers and lakes of Xizang. Guan, Z.H., et al. [1984,chi] 50-1846
- Snowmelt, global warming, and water level of Lake Biwa. Ikebuchi, S., [1992,eng] 50-3029
- Temperate rainforest lakes of Chile and British Columbia. Soto, D., et al. [1996,eng] 50-4066
- Water kept liquid by warmth from within. Bentley, C.R., [1996,eng] 50-5602
- Water resources data for Alaska, water year 1994. Bigelow, B.B., et al. [1995,eng] 50-2169
- See [also]: Frozen lakes; Glacial lakes; Icebound lakes; Limnology; Ponds; Reservoirs; Salt lakes;
- Thermokarst lakes**
- Laminar flow**
- Freeze closing of a convectively cooled parallel plate channel. Lipnicki, Z., et al. [1996,eng] 50-6461
- Freeze concentration by layer crystallization. Fiesland, O., [1995,eng] 50-5943
- Freezing of liquids in a laminar flow in a heat flux cooled circular duct. Prasad, A., et al. [1996,eng] 50-6463
- Solidification of pure liquids and liquid mixtures inside ducts and over external bodies. Fukusako, S., et al. [1994,eng] 50-2348
- Land development**
- Amelioration of saline land in Xinjiang oases. Wang, G.F., et al. [1991,chi] 50-5119
- Anchorage, Alaska's wetlands management plan. Salvesen, D.A., [1995,eng] 50-1683
- Application of chemical fertilizers in Xinjiang. Huang, Z.W., et al. [1991,chi] 50-5128
- Economic development strategy and regionalization of Xizang. Ni, Z.B., [1992,chi] 50-1477
- Economic geography of the Inner Mongolia Autonomous Region. Gang, G.E., ed, et al. [1992,chi] 50-2171
- Effect of fertilizer on the quality and productivity of Jiashi melons. Zhao, G.H., et al. [1991,chi] 50-5124
- Effect of irrigation on the quality and productivity of Jiashi melons. Chang, Q., et al. [1991,chi] 50-5125
- Environment and resources of the Qinghai-Xizang Plateau. Liu, T.S., [1992,chi] 50-1476
- Fertilizers and enzyme activity of Jiashi melon field soils. Yue, H.X., et al. [1991,chi] 50-5126
- General summary of the "Xinjiang 1:1,000,000 land resources map". Ji, F., et al. [1991,chi] 50-5108
- Hydrogeology and engineering geology of permafrost zones. Yang, R.T., et al. [1986,chi] 50-1169
- Illustrated Hokkaido forestry—towards well-developed forests. [1990,jpn] 50-2170
- Land classification, land structure and comprehensive natural zonation of Xinjiang. Fan, Z.L., et al. [1991,chi] 50-5107
- Low-yield land and its amelioration in Xinjiang. Zhang, B.Q., et al. [1991,chi] 50-5118
- Mapping of land use in the Taklimakan Desert. Sugihara, S., [1991,jpn] 50-1427
- Natural resources of Inner Mongolia. Eer, D., ed, [1987,chi] 50-2290
- Promotion of industry in sparsely populated areas of heavy snow in Ishikawa Prefecture. Gomi, T., ed, et al. [1984,jpn] 50-2035
- Rangelands of Xizang (Tibet). Mou, X.D., et al. [1992,chi] 50-2296
- Resource ecology for soil conservation in the cold deserts of the Himalaya. Gupta, R.K., [1994,eng] 50-5426
- Soils and melon cultivation in Jiashi County, Xinjiang. Li, P.Q., et al. [1991,chi] 50-5123
- Soils of the agricultural areas of Bayingolin Mongol Autonomous Prefecture in Xinjiang. Li, S.H., [1991,chi] 50-5120
- Studies on the soils and land resources of Xinjiang. Xinjiang Institute of Biology, Pedology, and Desert Research of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang shengwu tuang shamo yanjiusuo), Urumqi. [1991,chi] 50-5106
- Study on a high-efficiency new type of urea fertilizer using ¹⁵N. Xiong, J.M., et al. [1991,chi] 50-5129
- Study on the causes and control of bitter pit in apples. Yu, Q.L., et al. [1991,chi] 50-5127
- Tracks of forest roads in the privately owned forests of Hokkaido. [1990,jpn] 50-2294
- Using computers for MSS image analysis in land use classification. Cheng, X.J., et al. [1991,chi] 50-5111
- Land ice**
- Case for cold-base continental ice sheets—a transient thermal model. Heine, J.T., et al. [1996,eng] 50-4890
- Effects of solar radiation variations on ice age initiation. Ledley, T.S., et al. [1995,eng] 50-1254
- Geophysical experiments on Ridge B1/B2, Siple Coast. Bentley, C.R., et al. [1994,eng] 50-1888
- Internal layer folding patterns from radar studies of ice streams B and C. Jacobel, R.W., et al. [1994,eng] 50-1892
- Progress in ice-stream basal modeling. Alley, R.B., [1994,eng] 50-1890
- Surveying and mapping program of the United States in Antarctica. Mullen, R.R., et al. [1993,eng] 50-592
- Temperature measurements in the margin of ice stream B, 1993-1994. Harrison, W., et al. [1994,eng] 50-1889
- Land reclamation**
- Alaska pipeline oil spill contingency plan. Aliyeska Pipeline Service Company, Anchorage, AK, [1991,eng] 50-850
- Amelioration of saline land in Xinjiang oases. Wang, G.F., et al. [1991,chi] 50-5119
- Analysis of the water and salt balance of the irrigated areas in the Yanqi Basin. Song, Y.D., et al. [1991,chi] 50-5121
- Application of chemical fertilizers in Xinjiang. Huang, Z.W., et al. [1991,chi] 50-5128
- Biofurfing—enhancing biological remediation of near-surface spills by augering. Stehmeier, L., et al. [1996,eng] 50-5567
- Biological rehabilitation of disturbed lands in the arctic gas-producing regions. Masalkin, S.D., [1991,eng] 50-1767
- Biological remediation of shoreline oily waste from marine spills. Labrie, P., et al. [1990,eng] 50-474
- Bioremediation of a petroleum-contaminated cryic soil. Walworth, J.L., et al. [1995,eng] 50-781
- Cattle rehabilitation and restoration. Bolstad, R., [1971,eng] 50-3245
- Cleanup assessment of the pipeline oil spill on the Kova River. Sienkiewicz, A.M., et al. [1996,eng] 50-5570
- Coal mine spoil instability in discontinuous permafrost. Hardy, A.J., et al. [1996,eng] 50-6166
- Cold regions infrastructure: an international imperative for the 21st century. International Conference on Cold Regions Engineering, 8th, Fairbanks, AK, Aug. 12-16, 1996, [1996,eng] 50-6106
- Creation of high-productive seeding meadows on disturbed arctic lands. Tikhmenev, E.A., [1991,eng] 50-1744
- Desertification and its control in China. Zhu, Z.D., et al. [1989,chi] 50-1851
- Disturbance and recovery of arctic Alaskan vegetation. Walker, D.A., [1996,eng] 50-4841
- Dredging Eagle River Flats: remediation study in an active impact area. Walsh, M.R., [1996,eng] 50-5913
- Drought and salt resistant plants in arid regions of China. Omasa, K., et al. [1991,jpn] 50-1442
- Effect of fertilizer on the quality and productivity of Jiashi melons. Zhao, G.H., et al. [1991,chi] 50-5124
- Effect of irrigation on the quality and productivity of Jiashi melons. Chang, Q., et al. [1991,chi] 50-5125
- Environmental research project for Yamburg gas fields. Chlenov, A.V., [1991,eng] 50-1766
- Experiments on afforestation by aerial seeding in the cold temperate zone. Wang, T.X., et al. [1991,chi] 50-5846
- Exxon Valdez Oil Spill Restoration Plan. Final environmental impact statement. Exxon Valdez Oil Spill Trustee Council, Anchorage, AK, [1994,eng] 50-369
- Fertilizers and enzyme activity of Jiashi melon field soils. Yue, H.X., et al. [1991,chi] 50-5126
- Freeze-thaw dewatering and structural enhancement of fine coal tails. Stahl, R.P., et al. [1995,eng] 50-357
- Fuzzy mathematics in evaluating the tillability of land in Xinjiang. Ji, F., [1991,chi] 50-5109
- Grassland ecosystems in eastern Inner Mongolia. Nemoto, M., [1991,jpn] 50-1440
- Hydraulic conductivity of frozen granular soils. Andersland, O.B., et al. [1996,eng] 50-4048
- Illustrated Hokkaido forestry—towards well-developed forests. [1990,jpn] 50-2170
- Impact of federal programs on wetlands, Vol.2. U.S. Department of the Interior, [1994,eng] 50-1670
- In situ remediation of hydrocarbon contaminated soil and groundwater. Gould, T.F., et al. [1996,eng] 50-6116
- Innovative bioventing system construction/operation in cold regions. Strickland, K.K., et al. [1996,eng] 50-6136
- Integrated approach to shoreline mapping for spill response planning. Owens, E.H., et al. [1996,eng] 50-5561
- Japan-China Joint Study on Desertification, Apr. 1990-Mar. 1991. Japan Science and Technology Agency, Research and Development Bureau (Kagaku gijyusyo Kenkyu kaihatyoku), [1991,jpn] 50-1421
- Komi oil spill—an assessment by a multi-national team. Devens, P.K., [1995,eng] 50-5731
- Large volume oil spill on land surface: the Vozey oil field. Russia. Zolai, S.C., et al. [1995,eng] 50-5733
- Long-term plant persistence on highly acidic soils. Palazzo, A.J., et al. [1995,eng] 50-5593
- Low-yield land and its amelioration in Xinjiang. Zhang, B.Q., et al. [1991,chi] 50-5118
- Management of shoreline protection and treatment operations. Owens, E.H., [1996,eng] 50-5562
- Necessity and means of recultivating disturbed lands in the North. Kruchkov, V.V., [1994,rus] 50-253
- Oil on shorelines and shoreline treatment: a state-of-knowledge review. Owens, E.H., et al. [1996,eng] 50-5560
- Overview of the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Hartley, A.E., Sr., [1996,eng] 50-5568
- Oxygen supplies for bioremediation in tundra soils. White, D.M., et al. [1996,eng] 50-6135
- Petroleum hydrocarbon removal via volatilization and biodegradation at McGrath, Alaska. Ramert, P.C., et al. [1996,eng] 50-6115
- Potential for bioremediation of fuel-contaminated soil in Antarctica. Wardell, L.J., [1995,eng] 50-782
- Practical solution to the problems of biological recultivation in the Far North. Archegova, I.B., et al. [1994,rus] 50-254
- Predicting the level of frost penetration into landfill covers. Moo-Young, H.K., Jr., et al. [1996,eng] 50-6169
- Problems of protection and restoration of land resources in the Komi Republic. Ermakov, A.A., et al. [1994,rus] 50-252
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 18th, Edmonton, Alberta, June 14-16, 1995, [1995,eng] 50-5715
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 19th, Calgary, Alberta, June 12-14, 1996, [1996,eng] 50-5551
- Proceedings. Arctic and Marine Oilspill Program Technical Seminar, 13th, Edmonton, Alberta, June 6-8, 1990, [1990,eng] 50-466
- Remediation of a hydrocarbon spill in Alberta. Mitton, M.J., et al. [1995,eng] 50-5725
- Resource ecology for soil conservation in the cold deserts of the Himalaya. Gupta, R.K., [1994,eng] 50-5426
- Response operations on the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Stillings, W.I., [1996,eng] 50-5569

Landform identification

- Restoration of the burned forest area in the Greater Khingan Range. Cheng, H.Z., [1991,chi] 50-5854
- Restoration of the forest fire disaster area in the Greater Khingan Range. Wang, S.X., [1991,chi] 50-5855
- Revegetation of disturbed tundra in gravel excavation areas. Firsirot, N., et al., [1995,eng] 50-3843
- Satellite imagery for soil conservation in the loess plateau. Wang, C.Y., ed. et al., [1990,chi] 50-4165
- Selection of cold-tolerant plants for growth in soils contaminated with organics. Rogers, H.B., et al., [1995,eng] 50-4609
- Shoreline clean-up techniques—Exxon Valdez operations. Newman, S.A., [1990,eng] 50-478
- Shoreline cleanup following the Exxon Valdez oil spill. Owens, E.H., et al., [1990,eng] 50-476
- Shoreline cleanup following the Exxon Valdez oil spill. Teal, A.R., [1990,eng] 50-477
- Shoreline monitoring following the Exxon Valdez incident. Owens, E.H., et al., [1990,eng] 50-480
- Soil bioremediation at CFB Trenton: evaluation of bioremediation processes. Ouellette, L., et al., [1996,eng] 50-5566
- Soils and melon cultivation in Jiashi County, Xinjiang. Li, P.Q., et al., [1991,chi] 50-5123
- Soils of the agricultural areas of Bayingolin Mongol Autonomous Prefecture in Xinjiang. Li, S.H., [1991,chi] 50-5120
- Spray freezing to treat oil sands tailings pond water. Gao, W., et al., [1996,eng] 50-6112
- Studies on the soils and land resources of Xinjiang. Xinjiang Institute of Biology, Pedology, and Desert Research of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang shengwu tuang shamo yanjiusuo), Urumqi, [1991,chi] 50-5106
- Study of remote sensing application in the loess plateau of north Shaanxi Province. Chinese Academy of Sciences. Institute of Remote Sensing Applications, Beijing (Zhongguo kexueyuan Yaogan yingyong yanjiusuo), [1991,chi] 50-6646
- Study on a high-efficiency new type of urea fertilizer using ¹⁵N. Xiong, J.M., et al., [1991,chi] 50-5129
- Study on alfalfa seedling cultivation technology in saline hardpan soil. Ma, S.Z., et al., [1991,chi] 50-5122
- Study on the causes and control of bitter pit in apples. Yu, Q.L., et al., [1991,chi] 50-5127
- Subsurface Oil in Coarse Sediments Experiments (SOCSEX II). Harper, J.R., et al., [1995,eng] 50-5726
- Suggested improvements to oil spill response planning. Owens, E.H., [1990,eng] 50-479
- Tall and hard fescue responses to periodic soil water deficits. Brar, G.S., et al., [1995,eng] 50-2475
- Technology adaptation to arctic mineral resource development. Zamoshch, M.N., [1991,eng] 50-1754
- Urea foam covers for remediation of degraded permafrost. Feklistov, V.N., et al., [1996,eng] 50-6476
- Use of surfactants in oil spill remediation in cold regions. Tumeo, M.A., et al., [1995,eng] 50-5723
- See [also]: Revegetation
- Landform identification**
See [also]: Terrain identification
- Landforms**
Abraded rock landforms (whalebacks) developed under ice streams in mountain areas. Evans, I.S., [1996,eng] 50-6234
- Central Appalachian periglacial geomorphology: a field excursion guidebook. Clark, G.M., ed. [1992,eng] 50-3712
- Formation of De geer moraines deposited subglacially, central Québec. Beaudry, L.M., et al., [1995,eng] 50-5035
- Glacial cirque formation in northern Scandinavia. Richardson, C., et al., [1996,eng] 50-6246
- Glacial flow systems in the zone of confluence between the Scandinavian and Novaya Zemlya ice sheets. Punkari, M., [1995,eng] 50-2130
- Glaciotectionic process at Svalbard. Hambrey, M.J., et al., [1995,eng] 50-6559
- Holocene glacial chronology in Patagonia: Tyndall and Upsala glaciers. Aniya, M., [1995,eng] 50-2806
- Holocene evolution of a stretch of an eastern Italian alpine valley. Friz, C., et al., [1995,eng] 50-6697
- Icelandic turf-banked terrace geomorphology. Douglas, T.D., et al., [1996,eng] 50-5498
- Identification of elements of fluvio-glacial shapes characteristic of glacial outbursts. Robitaille, A., et al., [1995,eng] 50-5041
- Implication of glacial dispersal patterns for mineral exploration. McClenaghan, M.B., et al., [1996,eng] 50-6515
- Implications of frost heave for patterned ground. Tibet Plateau, China. Wang, B.L., et al., [1995,eng] 50-2808
- Laboratory exercise introducing glacial geomorphology. Harbor, J.M., et al., [1995,eng] 50-3861
- Land form development and pedogenesis: the effects of the last glacial cycle in the forest of Fougères (Île de Villaine, Brittany, France). Van Vliet-Lanoë, B., et al., [1995,eng] 50-2996
- Landform and sediment associations of dry-based glaciers in arid polar environments. Humphreys, K.A., et al., [1996,eng] 50-6577
- Landforms associated with Pleistocene glaciation in Ireland. Wilson, P., et al., [1995,eng] 50-5486
- Last glaciation in central Magellan Strait, southernmost Chile. Clapperton, C.M., et al., [1995,eng] 50-964
- Lichenometric dating of arctic/alpine slope processes. McCarrroll, D., [1993,eng] 50-847
- Limestone karst morphology in the Himalayas of Nepal and Tibet. Waltham, A.C., [1996,eng] 50-4875
- Mechanism of the development of the Pomeranian Phase marginal zone in the Lake Drawa district. Kąsy, P., [1990,eng] 50-5004

- Note on rock glaciers in the Albanian Alps. Palmentola, G., et al., [1996,eng] 50-6702
- Paleomagnetic age constraints on New Zealand glacial deposits. Fitzsimons, S.J., et al., [1996,eng] 50-6576
- Past and present glacial landforms of the central Qilian Shan. Lehmkuhl, F., [1995,ger] 50-6077
- Pleistocene paraglacial landsliding in South Wales. Shakesby, R.A., et al., [1996,eng] 50-5859
- Proglacial formation mechanisms in Norwegian sediments. Shakesby, R.A., et al., [1995,eng] 50-3328
- Relief of the Breinesflya plain and Wiederfjellet massif in western Sørkapp Land (Spitsbergen). Geblica, P., [1989,eng] 50-2889
- Satellite regolith frozen ground collapse as solar system geological paradigm. Moore, J.M., et al., [1996,eng] 50-6588
- Scottish landform examples. 8: Solifluction sheets in the Bowmont Valley, Cheviot Hills. Harrison, S., [1993,eng] 50-3015
- Scottish landform examples. 9: Moraines in Coire na Creiche, Isle of Skye. Benn, D.I., [1993,eng] 50-3016
- Seasonal frost mounds of arctic beaches, Tuktoyaktuk Peninsula, Northwest Territories. Campeau, S., et al., [1995,eng] 50-4882
- Simulation of Pleistocene glacial limits in Yunnan, China. Aniya, M., et al., [1991,eng] 50-3307
- Thermal regime of Holocene Greenland ice sheet moraine formation. Van Tatenhove, F.G.M., et al., [1996,eng] 50-5582
- Tunnel valley genesis. Coafigh, C.O., [1996,eng] 50-5012

Landing strips

See [also]: Aircraft landing areas; Ice runways; Runways

LANDSAT

- Application of satellite visible band data to high latitude oceans. Ahlbas, K., et al., [1989,eng] 50-3934
- Avalanche hazard mapping with satellite data and a digital elevation model. Gruber, U., et al., [1995,eng] 50-2345
- Basal friction of Ice Stream E, West Antarctica. MacAyeal, D.R., et al., [1995,eng] 50-448
- Characterizing multitemporal alpine snowmelt patterns for ecological inferences. Allen, T.R., et al., [1993,eng] 50-1447
- Classification of wetland and muskeg terrain. Pietroniro, A., et al., [1996,eng] 50-5541
- Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al., [1996,eng] 50-4766
- Estimation of biomass and other characteristics of boreal forest. Häme, T., et al., [1994,eng] 50-3228
- Ice velocities near a relict flow feature on Siple Dome. Jacobel, R.W., et al., [1994,eng] 50-1891
- LANDSAT automated mapping of mountain snow cover. Rosenthal, W., et al., [1996,eng] 50-3312
- Mapping alpine snow and ice using Landsat TM and SAR imagery at Waipia icefield. Brugman, M.M., et al., [1996,eng] 50-5545
- Mapping tide-water glacier dynamics in East Greenland using Landsat data. Dwyer, J.L., [1995,eng] 50-1879
- Remote sensing of East Greenland mafic intrusion lithology. Birnie, R.W., et al., [1989,eng] 50-3935
- Satellite imagery of ice sheet drainage basins. Russian Arctic. Dowdeswell, J.A., et al., [1995,eng] 50-3327
- Satellite imagery of the onset of streaming flow of ice streams C and D, West Antarctica. Hodge, S.M., et al., [1996,eng] 50-4301
- Swedish Forest Information Atlas. Rosengren, M., et al., [1992,eng] 50-623
- Topographic origin for double-ridge features in visible imagery of ice divides in Antarctica. Goodwin, A.H., et al., [1995,eng] 50-1870
- Use of remotely sensed data in the hydrological modelling of the upper Columbia watershed. Kite, G.W., [1996,eng] 50-5538
- Utility of imaging spectrometry for lithologic mapping in Greenland. Rivard, B., et al., [1992,eng] 50-1651
- Landscapes development**
Comparison of tundra-steppe development in Beringia. Gitterman, R.E., et al., [1982,eng] 50-3371
- Danube River fluvial geomorphodynamics during the Quaternary. Buch, M.W., et al., [1995,eng] 50-2749
- Erosion on Titan: past and present. Lorenz, R.D., et al., [1996,eng] 50-5832
- Evolution of lowland landscapes in northeastern Asia during Late Quaternary time. Tomirdiari, S.V., [1982,eng] 50-3370
- Geomorphic effects of the retreat of Jamapa Glacier, Pico de Orizaba Volcano (Mexico). Palacios, D., et al., [1996,eng] 50-5578
- Hillslope ice wedges and landform evolution on coastal arctic Canada. Mackay, J.R., [1995,eng] 50-3298
- History of the steppe-tundra concept. Hibbert, D., [1982,eng] 50-3375
- Holocene climate fluctuations and geomorphic impact of extreme events in Svalbard. André, M.F., [1995,eng] 50-4192
- Holocene development of a debris slope in subarctic Québec. Canada. Marion, J., et al., [1995,eng] 50-2857
- Holocene evolution of a stretch of an eastern Italian alpine valley. Friz, C., et al., [1995,eng] 50-6697
- Influence of pocket gophers on the status of nutrients in alpine soils. Litoir, M.L., et al., [1996,eng] 50-4951
- Landscapes differentiation and development of southeastern Sørkapp Land. Ziaja, W., [1993,eng] 50-2216

- Landscape evolution in Antarctica. Campbell, I.B., et al., [1988,eng] 50-6526
- Limestone karst morphology in the Himalayas of Nepal and Tibet. Waltham, A.C., [1996,eng] 50-4875
- Ocean bottom trenching by an Icelandic glacier. Björnsson, H., [1996,eng] 50-6252
- Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st, Burg Wartenstein, Austria, June 8-17, 1979, [1982,eng] 50-3369
- Paleogeographic conditions of continental syncryogenesis on Central Yamal. Bolikhovskaia, N.S., et al., [1996,eng] 50-6351
- Paleogeographical studies of permafrost in the eastern Taymyr lowland. Siegert, C., et al., [1995,eng] 50-2092
- Periglacial elements in the geological structure and relief of northern Częstochowa. Kobjek, S., [1990,eng] 50-4941
- Pleistocene soil evolution in a Russian upland. Sycheva, S.A., [1995,eng] 50-2147
- Quaternary fluvio-morphological processes. Bibus, E., et al., [1995,eng] 50-2747
- Space imagery as a basis for modeling the dynamics of thermokarst lake plains. Viktorov, A.S., [1996,eng] 50-6647
- Thermal erosion in high arctic ecosystems in Spitsbergen. King, L., et al., [1993,eng] 50-843
- Wutach gorge in SW Germany: late Würmian (periglacial) downcutting versus Holocene processes. Einsle, G., et al., [1995,eng] 50-2750

Landscape types

- Classification of cryogenic polygonal relief. Vtiurina, E.A., et al., [1985,eng] 50-239
- Classification of wetland and muskeg terrain. Pietroniro, A., et al., [1996,eng] 50-5541
- Description of Kolyma River landscapes and soils. Smith, C.A.S., et al., [1995,eng] 50-4698
- Development of southern Bellsund beaches (West Spitsbergen). Jezierski, W., [1993,eng] 50-2202
- Distribution characteristics of taliks beneath lakes in the Bovenaneko region. Anan'eva, G.V., et al., [1996,eng] 50-6360
- Ecological classification of Michigan wetland ecosystems. Zogg, G.P., et al., [1996,eng] 50-3297
- Engineering-geocryological regionalization of the central regions of northwestern Siberia. Belopukhova, E.B., et al., [1985,eng] 50-241
- Environmental protection measures for the West Siberian Arctic and Subarctic. Chistov, S.V., [1991,eng] 50-1298
- Estimates of North American tundra ecosystem biomass. Gilmanov, T.G., et al., [1995,eng] 50-4864
- Field guide to the Churchill region, Manitoba. Dredge, L.A., [1992,eng] 50-3910
- Frozen ground landscapes of Yakutia: explanatory notes to a map. Fedorov, A.N., et al., [1989,eng] 50-5005
- Geocryological typification of a territory according to frost heave formation conditions. Verkhovzin, I.I., et al., [1993,eng] 50-113
- Glaciological zoning of the Earth. Tushinskiĭ, G.K., et al., [1973,eng] 50-421
- Holocene climatic, vegetation and pollen data of Siberia adjacent to the Laptev Sea. Naidina, O.D., [1995,eng] 50-2091
- Landscape differentiation and development of southeastern Sørkapp Land. Ziaja, W., [1993,eng] 50-2216
- Regional geocryological studies: collected scientific papers. Sukhodol'skiĭ, S.E., ed. et al., [1985,eng] 50-238
- Spatial distribution of snow chemical load at the tundra-taiga transition. Pomeroy, J.W., et al., [1995,eng] 50-2412
- Special geocryological regionalization of the European north-east. Ivanova, T.F., et al., [1985,eng] 50-240
- Stability of biogeocoenoses in the Far North. Mel'tser, L.I., [1990,eng] 50-1602
- Swedish Forest Information Atlas. Rosengren, M., et al., [1992,eng] 50-623
- Technology adaptation to arctic mineral resource development. Zamoshch, M.N., [1991,eng] 50-1754
- Temporal analysis of ERS-1 SAR backscatter for hydrology applications. Crevier, Y., et al., [1996,eng] 50-5543
- Use of remotely sensed data in the hydrological modelling of the upper Columbia watershed. Kite, G.W., [1996,eng] 50-5538

See [also]: Alpine landscapes; Arctic landscapes; Deserts; Forest land; Forest tundra; Karst; Littoral zone; Ocean environments; Polar regions; Steppes; Subarctic landscapes; Subpolar regions; Taiga; Tundra

Landslides

- Bibliography on the hydrology of the Himalaya-Karakoram region. Young, G.J., et al., [1996,eng] 50-5273
- Case studies of geoprocesses and environmental change in mountains of northern Sweden. Rapp, A., [1995,eng] 50-4187
- Catastrophic mass movements in the mountains around the Qinghai-Xizang Plateau. Fort, M., et al., [1995,eng] 50-4835
- Council of Europe's Open Partial Agreement on Major Hazards. EUR-OPA. Tondre, F., [1995,eng] 50-4645
- Cryogenic landslides on the Yamal Peninsula, Russia: preliminary observations. Leibman, M.O., [1996,eng] 50-6703
- Cyclic triaxial tests of the Bootlegger Cove Formation, Anchorage, Alaska. Lade, P.V., et al., [1988,eng] 50-405
- Earthquake induced landslide in Anchorage, 1964. Uplidke, R.G., et al., [1988,eng] 50-401
- Full scale impact test of PC rock-shed with shock absorbing system. Sato, M., et al., [1995,eng] 50-2688

Lapland

- Full scale test on impact resistance of PC girder. Sato, M., et al. [1995,eng] 50-2690
- Landslide hazards along the highways of the Qinghai-Xizang Plateau. Wang, C.H., [1994,eng] 50-4784
- Large-scale landslide simulations: global deformation, velocities and basal friction. Campbell, C.S., et al. [1995,eng] 50-946
- Mountain permafrost and slope instability in the Italian Alps: the Val Pola landslide. Dramis, F., et al. [1995,eng] 50-669
- Pleistocene paraglacial landsliding in South Wales. Shakesby, R.A., et al. [1996,eng] 50-5859
- Snowmelt-induced earth and rock flows. Watanabe, N., et al. [1992,jpn] 50-3136
- Supraglacial debris transport over time. Whalley, W.B., et al. [1996,eng] 50-6258
- See [also]: Mudflows
- Lapland**
- Permafrost mounds in Lapland and Spitsbergen. Meier, K.D. [1989,ger] 50-645
- Large unit construction**
- See [also]: Modular construction
- Lasers**
- Airborne laser fluorosensor to detect oil spills. Brown, C.E., et al. [1996,eng] 50-5564
- ATLAS instrument characterization: accuracy of the AASE and AAOE nitrous oxide data sets. Loewenstein, M., et al. [1990,eng] 50-6008
- Diode laser humidity sensor for cold environments. Phase II final technical report. Silver, J.A., et al. [1991,eng] 50-4525
- Elastic constants of ice VI by Brillouin spectroscopy. Tulk, C.A., et al. [1996,eng] 50-5506
- Fluorescence spectra and lifetime of 2-naphthol in H₂O- and D₂O-ice(I_h) single crystal. Ping, Q., et al. [1995,eng] 50-2161
- Greenland ice sheet thickness changes measured by laser altimetry. Krabill, W., et al. [1995,eng] 50-751
- Greenland ice sheet thickness changes measured by laser altimetry. Thomas, R., et al. [1993,eng] 50-4803
- High performance fiber optic hydrophones in the arctic environment. Yurek, A.M., et al. [1995,eng] 50-1211
- Improved airborne laser fluorosensor for assessment of marine pollution. Dick, R., et al. [1990,eng] 50-472
- Laser ablation of organic molecules from frozen matrices. Belov, M.E., et al. [1995,eng] 50-3720
- Method of and apparatus for removing debris from the floptical medium. Johnson, P.R., et al. [1995,eng] 50-3464
- New laser plasma source for extreme-ultraviolet lithography. Jin, F., et al. [1995,eng] 50-3678
- On the scattered radiation intensity fluctuations for a focused laser beam in snowfall. Vostretsov, N.A., et al. [1994,eng] 50-1285
- Polar ice stratigraphy from laser-light scattering: scattering from ice. Ram, M., et al. [1995,eng] 50-3098
- Profiles of particle characteristics in blowing snow. Naaim, M., et al. [1995,eng] 50-1062
- Refractive index and density of vapor-deposited ice. Berland, B.S., et al. [1995,eng] 50-3096
- Scanning microscopy of an autofluorescent biological substance. Evans, J., et al. [1996,eng] 50-4532
- Latent heat**
- Acoustic emissions during ice phase transformations. Sakharov, I.I. [1995,eng] 50-157
- Analysis of the transient response of a thermal energy storage unit. Kuznetsov, A.V. [1996,eng] 50-6472
- Capsule-type thermal energy storage system. Ishikawa, M., et al. [1996,eng] 50-6446
- Design, building and testing of a latent heat thermal energy storage element. Millente, J., et al. [1996,eng] 50-6442
- Direct contact melting process on a curved wall coated with a porous layer. Oka, M., et al. [1996,eng] 50-6451
- Experimental study of the melting from discrete heat sources in a vertical enclosure. Duong, T., et al. [1996,eng] 50-6450
- Hybrid system of latent heat storage and spray flash evaporation. Miyatake, O., et al. [1996,eng] 50-6444
- Ice ages and the Milankovitch theory: a study of interactive climate feedback mechanisms. Cess, R.D., et al. [1979,eng] 50-2976
- Latent heat thermal energy storage system using spherical capsules. Saitoh, T., et al. [1996,eng] 50-6443
- New formulation for the Bowen ratio over saturated surfaces. Andreas, E.L., et al. [1996,eng] 50-6570
- Performance of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996,eng] 50-3408
- State of SO₂ on Io's surface. Kerton, C.R., et al. [1996,eng] 50-4257
- Thermal performance of a planar latent heat storage unit for load shifting. Laouadi, A., et al. [1996,eng] 50-6468
- Lattice structures**
- Aging effects on translational lattice vibrations in ice I_h. Fukuzawa, H., et al. [1996,eng] 50-6615
- Calculation of free energy for molecular crystals by thermodynamic integration. Báez, L.A., et al. [1995,eng] 50-1951
- Energetics of framework formation in cubic clathrate hydrates. Kosiakov, V.I., et al. [1995,eng] 50-3677
- Geometry and energy calculations of the HS-III polyhedral gas hydrate framework. Kosiakov, V.I., et al. [1995,eng] 50-3676
- High-pressure elastic properties of the VI and VII phase of ice in dense H₂O and D₂O. Shimizu, H., et al. [1996,eng] 50-4355
- Monitoring clathrate hydrate formation on ice surfaces. Pietrass, T., et al. [1995,eng] 50-2127
- New approach to the dynamics of hydrogen bond network in liquid water. Matsumoto, M., et al. [1996,eng] 50-3616
- Refractive-index measurements of natural air-hydrate crystals in an antarctic ice sheet. Uchida, T., et al. [1995,eng] 50-977
- Theory of lattice Boltzmann simulations of glacier flow. Bahr, D.B., et al. [1995,eng] 50-1883
- Thermal conductivity of normal and deuterated tetrahydrofuran clathrate hydrates. Andersson, O., et al. [1996,eng] 50-2719
- X-ray analysis of frozen clathrate hydrates. Bednarek, J., et al. [1996,eng] 50-4555
- Laws**
- See [also]: Legislation
- Layers**
- Arctic stratospheric cloud and temperature variations, 1989. Hofmann, D.J., [1990,eng] 50-5985
- Borehole video analysis of subglacial flow and structure. Harper, J.T., et al. [1995,eng] 50-1100
- Freeze concentration by layer crystallization. Fiesland, O., [1995,eng] 50-5943
- Molecular dynamics study of surface melting on ice crystal. Nada, H., et al. [1994,eng] 50-3073
- Surface layers on ice. Knight, C.A., [1996,eng] 50-6058
- See [also]: Stratification
- Leaching**
- Evaluation of frost action on concrete. Kleiner, V.D., [1996,eng] 50-4367
- Hydraulic conductivity of frozen granular soils. Andersland, O.B., et al. [1996,eng] 50-4048
- Hydrological processes contributing to nitrogen leaching. Lepistö, A., [1996,eng] 50-5599
- Leaching of organic carbon and nitrogen from forested catchments. Kortelainen, P., et al. [1994,eng] 50-3221
- Leaf extract allelopathic effects on arctic graminoids. Michelsen, A., et al. [1995,eng] 50-1091
- Plant nutrient runoff in Norwegian watersheds. Haraldsen, T.K., et al. [1995,eng] 50-741
- Report on acidification in the arctic countries. Nenonen, M., [1991,eng] 50-3418
- Requirements for heap leaching under permafrost conditions. Putsyn, A.B., [1995,eng] 50-418
- Response of leaching from mire ecosystems to changing climate. Sallantausta, T., [1994,eng] 50-3222
- Sampling trace-level organics with polymeric tubings. Parker, L.V., et al. [1996,eng] 50-5672
- Soil polygenesis as a function of Quaternary climate change, northern Great Basin, USA. Chadwick, O.A., et al. [1995,eng] 50-1831
- Soil properties beneath ceanthus and pine stands in the eastern Sierra Nevada. Johnson, D.W., [1995,eng] 50-630
- Solid phase extraction of nitroaromatics from water. Jenkins, T.F., et al. [1995,eng] 50-1977
- Sorption and leaching of trace-level metals by polymeric well casings. Ranney, T.A., et al. [1996,eng] 50-5911
- Leakage**
- Airborne measurements of atmospheric methane over oil fields in western Siberia. Tohjima, Y., et al. [1996,eng] 50-6509
- Fixing frozen leaks in a dam in Hokkaido. Takada, K., et al. [1995,jpn] 50-6738
- Investigation and repair of a terra cotta dome in a cold climate. Ogle, R., et al. [1995,eng] 50-1978
- See [also]: Air leakage
- Legislation**
- Anchorage, Alaska's wetlands management plan. Salvesen, D.A., [1995,eng] 50-1683
- Antarctic Treaty's 30 years of operation. Machowski, J., [1989,pol] 50-2876
- Arctic and Russia. Granberg, A.G., [1996,eng] 50-4422
- Avalanche book. Armstrong, B.R., et al. [1992,eng] 50-863
- Congressional hearing on programs related to aircraft icing, 1992. U.S. Congress. House. Committee on Public Works and Transportation, [1992,eng] 50-6204
- Current policy of the Russian Federation regarding development and management of the Northern Sea Route System. Arikainen, A.I., et al. [1996,eng] 50-4450
- Effect of the popularization of studless tires on the road environment. Mima, H., et al. [1995,jpn] 50-6790
- Effect of the popularization of studless tires on traffic conditions. Horita, N., et al. [1995,jpn] 50-6789
- Effects of widespread use of studless tire on traffic conditions. Horita, N., et al. [1994,jpn] 50-2829
- Escorting and tethering oil tankers in Prince William Sound. Corsini, T.J., [1995,eng] 50-5718
- Exploitation of mineral resources in Antarctica. Machowski, J., [1989,pol] 50-2932
- Explore Antarctica. Crossley, L., [1995,eng] 50-230
- Guide to environmental impact assessment of activities in Antarctica. London. Foreign and Commonwealth Office. South Atlantic and Antarctic Department. Polar Regions Section, [1995,eng] 50-948
- Hearing on arctic coastal plain leasing to petroleum interests. U.S. Congress. House. Committee on Resources, [1995,eng] 50-3455
- Legal conditions for navigating the Northern Sea Route. Örebeck, P., [1996,eng] 50-4452
- Legal means for the protection of the antarctic environment from human activities. Machowski, J., [1993,eng] 50-2181
- Legal status of the Northern Sea Route. Timchenko, L.D., [1996,eng] 50-4454
- Merging U.S., Canadian arctic areas considered. [1994,eng] 50-942
- New protected areas in Russia in the framework of a circum-polar protected area network plan. Prokosch, P., [1995,eng] 50-3169
- Polar regions: a political geography. Chaturvedi, S., [1996,eng] 50-5926
- Polar vision or tunnel vision: The making of Canadian Arctic waters policy. Huebert, R., [1995,eng] 50-4503
- Project III.12.1: improve information on navigating the NSR. Baskin, A.T., [1996,eng] 50-4448
- Regional system of protected natural areas in the north of Western Siberia. Pokrovskaya, I.V., [1995,eng] 50-3170
- Review of select exploration and development activity in state nearshore areas. Hansen, J., [1995,eng] 50-6305
- Russian Arctic straits under international law. Brubaker, D., [1996,eng] 50-4449
- Russian Arctic water under international law. Brubaker, D., [1996,eng] 50-4458
- Safe operation of arctic offshore drilling systems in the United States. Regg, J., et al. [1995,eng] 50-216
- Solid waste management in rural Alaska. Hansen, H.M., et al. [1996,eng] 50-6171
- State of Alaska's participation in spill response and preparedness in the state. Vogt, D., [1992,eng] 50-87
- Use of snowmobiles. Sarraz-Bournet, P., [1996,fre] 50-4868
- Would a helmet law for snowmobile riders reduce head injuries. Björnsög, U., et al. [1994,eng] 50-603
- Leaves**
- Device for protecting a bridge from naleds. Dement'ev, V.A., et al. [1992,rus] 50-1923
- Persistence of white phosphorus particles in sediment. Walsh, M.E., et al. [1995,eng] 50-878
- Level**
- See [also]: Altitude; Sea level; Water level
- Leveling**
- Greenland expedition with the Ni2 level. Mälzer, H., [1960,eng] 50-5750
- Surveying work in Mount Xixia Bangma region. Zhou, J.Q., et al. [1982,chi] 50-6594
- Lichens**
- Alpine lichens in SW Tasmania. Kantvilas, G., [1995,eng] 50-3777
- Arctic lichen collections from 1959 excursion. Thomson, J.W., et al. [1992,eng] 50-6522
- Bryophytes collected in arctic tundra of the Lyellstranda region. Swies, F., et al. [1993,eng] 50-2193
- Carbon and water in polar lichens. Kappen, L., et al. [1995,eng] 50-3782
- Climate change and the ecophysiological response of Arctic lichens. Nash, T.H., III, et al. [1995,eng] 50-3784
- Dating analysis of Norwegian Neoglaciation moraines. Matthews, J.A., et al. [1996,eng] 50-4375
- Decomposition of soil surface lichens in mountain tundra and taiga. Parinkina, O.M., et al. [1995,eng] 50-3875
- Diversity of pine forests in the Lapland State Reserve, the Kola Peninsula. Neshataev, V.I.U., et al. [1995,eng] 50-3174
- Dry tundra succession in Central Chukotka. Kucherov, I.B., [1995,eng] 50-3173
- Dynamics of rock glaciers: data from Tröllaskagi, north Iceland. Whalley, W.B., et al. [1995,eng] 50-4833
- Effect of air pollution on soil invertebrates in the Lapland biosphere reserve. Giliazova, E.V., [1994,rus] 50-286
- Estimating long-term rockfall accretion rates by lichenometry. Luckman, B.H., et al. [1995,eng] 50-4836
- Gamma emitters in the Barents Sea area. Matishov, D.G., et al. [1993,eng] 50-2191
- Growth curves for calcium-tolerant lichens in the Canadian Rocky Mountains. McCarthy, D.P., et al. [1995,eng] 50-3330
- Holocene glacier variations in central Asia. Savoskul, O.S., et al. [1996,eng] 50-4372
- Ice nucleation activity associated with plants and fungi. Ashworth, E.N., et al. [1995,eng] 50-3278
- Initial phase of postfire forest regeneration in two lichen woodlands of northern Québec. Sirois, L., [1995,eng] 50-2158
- Isotope analysis of variable subarctic plant nutrient access. Michelsen, A., et al. [1996,eng] 50-5772
- Late Holocene snow avalanche activity in southern Norway. McCarroll, D., et al. [1995,eng] 50-3336
- Late-Holocene glaciation and twentieth-century retreat, north-eastern Brooks Range, Alaska. Evison, L.H., et al. [1996,eng] 50-4371
- Latitudinal effect of UV-B and CO₂ on lichens. Sonesson, M., et al. [1995,eng] 50-3783
- Latitudinal variations in lichen biology. Schipperges, B., et al. [1995,eng] 50-3781
- Lichen accumulation of airborne metals adjacent to a lead-zinc mine. Pilegaard, K., [1994,eng] 50-5604
- Lichen genus *Caloplaca* in polar regions. Sechting, U., et al. [1995,eng] 50-3778
- Lichenometric analysis of the Kärkerieppe slush-avalanche fan. Kärkevagge, Sweden. Bull, W.B., et al. [1995,eng] 50-4191
- Lichenometric dating of alpine Little Ice Age moraines. Winkler, S., et al. [1995,ger] 50-3396
- Lichenometric dating of arctic/alpine slope processes. McCarroll, D., [1993,eng] 50-847
- Lichenometric indications of the intensity of some exogenic processes. Galanin, A.A., [1996,rus] 50-6413
- Lichens and rocks: a review. Easton, R.M., [1994,eng] 50-1252
- Lichens as an object of technogenic impact. Magomedova, M.A., et al. [1994,rus] 50-267

Lidar

- Lichens of alpine meadows on the Beartooth Plateau, Montana and Wyoming. U.S.A. Eversman, S., [1995,eng] 50-2815
- Lichens on Livingston and Robert Is. Valladares, F., et al. [1995,eng] 50-3779
- Natural recovery and assisted revegetation in dwarf shrub dominated communities in Greenland. Strandberg, B., [1994,eng] 50-305
- Northern forest plants under the pressure of environmental changes. Laine, K., et al. [1994,eng] 50-3231
- Northern wilderness areas: ecology, sustainability, values. International Conference on Northern Wilderness Areas, Arctic Centre, University of Lapland, Rovaniemi, Finland, Dec. 7-9, 1994, [1995,eng] 50-3167
- Numerical analysis of vegetation cover structure and anthropogenic characteristics of deposits. Gritsan, O.E., et al. [1990,rus] 50-1616
- Origin and distribution of arctic lichens. Thomson, J.W., [1995,eng] 50-3776
- Paleoclimatic interpretation of rock glacier dating. Nicholas, J.W., et al. [1996,eng] 50-5577
- Plant species diversity of Bely Island. Rebristaia, O.V., [1995,eng] 50-3176
- Postglacial microbiological weathering of granite rocks moutonnées. André, M.F., [1995,eng] 50-4832
- Recovery characteristics for forest ecosystems after fires. Gorshkov, V.V., et al. [1992,eng] 50-3407
- Report on acidification in the arctic countries. Nenonen, M., [1991,eng] 50-3418
- Rock-weathering by the lichen *Lecidea auriculata* in an arctic alpine environment. McCarroll, D., et al. [1995,eng] 50-416
- Spatial pattern in lichen communities. Dale, M.R.T., [1995,eng] 50-3780
- Tardigrada of the arctic tundra with descriptions of two new species. Maucci, W., [1996,eng] 50-5293
- Tardigrades of the Taimyr peninsula with descriptions of two new species. Biserov, V.I., [1992,eng] 50-5294
- Utility of imaging spectrometry for lithologic mapping in Greenland. Rivard, B., et al. [1992,eng] 50-1651
- Vertical distribution of lichens on the mountain, Auccallajerg, northeastern Greenland. Hansen, E.S., [1996,eng] 50-4344
- Water in lichens at subzero temperatures. Schroeter, B., et al. [1995,eng] 50-2842
- Lidar**
- Airborne laser fluorosensor to detect oil spills. Brown, C.E., et al. [1996,eng] 50-5564
- Airborne lidar observations in the wintertime arctic stratosphere: ozone. Brownell, E.V., et al. [1990,eng] 50-5976
- ALOMAR—a new facility for middle atmosphere research at arctic latitudes. Thrane, E.V., et al. [1995,eng] 50-4261
- Analysis of lidar observations of polar stratospheric clouds. Toon, O.B., et al. [1990,eng] 50-5991
- Arctic polar stratospheric cloud observations by airborne lidar. McCarroll, M.P., et al. [1990,eng] 50-5988
- Cirrus infrared parameters and shortwave reflectance relations from observations. Spinhirne, J.D., et al. [1995,eng] 50-5162
- Cloud structure derived from remote sensing measurements. Sassen, K., [1984,eng] 50-4921
- Comparison of sensors and conditions at Smoke Week X and Smoke Week XI. Kennedy, B.W., et al. [1990,eng] 50-737
- Distributions of volcanic aerosols in antarctic polar stratospheric clouds. Adriani, A., et al. [1995,eng] 50-2848
- Dual-polarization airborne lidar observations of polar stratospheric cloud evolution. Poole, L.R., et al. [1990,eng] 50-5990
- Ground-based remote sensing of cloud ice particle sizes. Matrosov, S.Y., et al. [1995,eng] 50-3257
- Ice crystal optical properties of cirrus clouds. Gayet, J.F., et al. [1996,eng] 50-3684
- Improved airborne laser fluorosensor for assessment of marine pollution. Dick, R., et al. [1990,eng] 50-472
- Lidar detection of the transition from snowflakes to rain. Sassen, K., et al. [1996,eng] 50-5282
- Lidar measurements of arctic polar ozone depletion. Wirth, M., et al. [1996,eng] 50-5286
- Lidar measurements of global dust transport from the Taklimakan Desert. Itabe, T., et al. [1991,jpn] 50-1430
- Lidar observation of wintertime polar stratospheric clouds. Brownell, E.V., et al. [1990,eng] 50-5989
- Lidar observations of polar stratospheric cloud growth. Poole, L.R., et al. [1988,eng] 50-4634
- Lidar observations of stratospheric temperature above McMurdo Station, Antarctica. Di Donfrancesco, G., et al. [1996,eng] 50-5605
- Lidar of Canadian arctic stratospheric ozone. Donovan, D.P., et al. [1995,eng] 50-3095
- Low ozone concentrations in mid-latitude ice clouds. Reichardt, J., et al. [1996,eng] 50-6543
- Noctilucent cloud observations over Greenland by a Rayleigh lidar. Thayer, J.P., et al. [1995,eng] 50-4542
- Noctilucent clouds and the thermal structure near the arctic mesopause in summer. Lübken, F.J., et al. [1996,eng] 50-5453
- Observations of polar stratospheric clouds in the arctic winter 1989 at 79°N. Krüger, B.C., [1990,eng] 50-5984
- Optical backscatter characteristics of arctic polar stratospheric clouds. Kent, G.S., et al. [1990,eng] 50-5987
- Ozone and aerosol correlated observations at Thule, Greenland, in the period 1991-1994. Di Sarra, A., et al. [1995,eng] 50-2849

- Polar vortex edge definition from stratospheric lidar data. Dameris, M., et al. [1995,eng] 50-346
- Radiometric detection of ice crystal growth in cirrus clouds. Ou, S.C., et al. [1996,eng] 50-5204
- SAM II and lidar aerosol profile comparisons during AASE. Osborn, M.T., et al. [1990,eng] 50-5993
- Tests of electro-optic sensors in smoke and obscurants. Quebec, Feb.-Mar. 1989. Kennedy, B.W., et al. [1990,eng] 50-736
- Unusual PSCs observed by lidar in Antarctica. Stefanutti, L., et al. [1995,eng] 50-753
- Light (visible radiation)**
- Microalgal light-harvesting in McMurdo Sound. Robinson, D.H., et al. [1995,eng] 50-106
- Light effects**
- Carotenoid composition and down regulation in three conifers. Adams, W.W., III, et al. [1995,eng] 50-1137
- CO₂ exchange in some vascular plants inhabiting the polar Urals. Gerasimenko, T.V., et al. [1996,eng] 50-6757
- Constraints on primary productivity in the coastal temperate forests of the Americas. Waring, R.H., et al. [1996,eng] 50-4062
- Elliptical halos, Bottlinger's rings, and the ice-plate snow-star transition. Tränkle, E., et al. [1996,eng] 50-6612
- Light flash and ionization from hypervelocity impacts on ice. Burchell, M.J., et al. [1996,eng] 50-6530
- Radiation frost susceptibility and the association between sky exposure and leaf size. Jordan, D.N., et al. [1995,eng] 50-2132
- Reversible photoinhibition in antarctic moss during freezing and thawing. Lovelock, C.E., et al. [1995,eng] 50-2854
- Seasonal changes in photosystem II organisation and pigment composition in *Pinus sylvestris*. Ottander, C., et al. [1995,eng] 50-1130
- Snow algae microbiology related to ultraviolet radiation effects. Thomas, W.H., et al. [1995,eng] 50-2814
- Solar halos and sun dogs. Glassner, A., [1996,eng] 50-4499
- Steep latitudinal gradient of solar ultraviolet-B radiation in the arctic-alpine life zone. Caldwell, M.M., et al. [1980,eng] 50-1410
- UV-B-tolerance of alpine and arctic *Daphnia*. Zellmer, I.D., [1995,eng] 50-1972
- Light scattering**
- Antarctic cloud scattering depth using ground-based radiometry. Ricchiuzzi, P., et al. [1995,eng] 50-1335
- Antarctic muon and neutron detector AMANDA: first data and outlook. Lynch, J., et al. [1995,eng] 50-6742
- Depolarized light scattering spectroscopy of glassforming liquids: experimental tests of MCT. Cummins, H.Z., et al. [1995,eng] 50-1222
- Detection of polar stratospheric clouds with ERS-2/GOME data. Meerkötter, R., [1995,eng] 50-2150
- Development of a portable ice-thickness measuring instrument. Glynn, D.P., et al. [1992,eng] 50-4908
- Distributions of volcanic aerosols in antarctic polar stratospheric clouds. Adriani, A., et al. [1995,eng] 50-2848
- Effect of volcanic aerosols on ultraviolet radiation in Antarctica. Tsitas, S.R., et al. [1996,eng] 50-3066
- Elastic constants of ice VI by Brillouin spectroscopy. Tulk, C.A., et al. [1996,eng] 50-5506
- Elliptical halos, Bottlinger's rings, and the ice-plate snow-star transition. Tränkle, E., et al. [1996,eng] 50-6612
- High-pressure Brillouin scattering and elastic properties of liquid and solid methane. Shimizu, H., et al. [1996,eng] 50-5682
- Improved light scattering computations for hexagonal ice crystals. Xu, L., et al. [1996,eng] 50-3957
- Light scattering by absorbing hexagonal ice crystals in cirrus clouds. Zhang, J.Y., et al. [1995,eng] 50-984
- Light scattering by hexagonal ice prisms. 1. Small scattering angles. Petrusini, A.G., [1994,eng] 50-2709
- Light scattering effects on cloud thickness photometry. Zege, E.P., et al. [1994,eng] 50-2710
- Light-scattering spectrum of supercooled liquids. Latz, A., et al. [1996,eng] 50-5102
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995,eng] 50-1866
- On the particle characteristics of PSCs inferred from polarimetric experiment. Masłowska, A., et al. [1994,eng] 50-1114
- On the scattered radiation intensity fluctuations for a focused laser beam in snowfall. Vostretsov, N.A., et al. [1994,eng] 50-1285
- On the scattering behaviour of bullet-rossette and bullet-shaped ice crystals. Strauss, B., [1996,eng] 50-6228
- Phase function calculations of single hexagonal bullet-like ice crystals. Liu, C.L., et al. [1995,eng] 50-4345
- Polar ice stratigraphy from laser-light scattering: scattering from ice. Ram, M., et al. [1995,eng] 50-3098
- Radiative properties of cirrus clouds derived from surface interferometric measurements. Beck, G.H., et al. [1996,eng] 50-6569
- Solar halos and sun dogs. Glassner, A., [1996,eng] 50-4499
- Spectral scattering and crystal dynamics in cirrus clouds. Lynch, D.K., et al. [1994,eng] 50-1115
- Ultratransparent antarctic ice as a supernova detector. Halzen, F., et al. [1996,eng] 50-6323
- Light transmission**
- Atmospheric aerosol turbidity over polar regions. Radionov, V.F., et al. [1995,eng] 50-6326
- Chlorophyll fluorescence in the Laptev Sea. Anoshkin, A.F., et al. [1995,eng] 50-2083

- Complex refractive indices in the infrared of nitric acid trihydrate aerosols. Richwine, L.J., et al. [1995,eng] 50-1188
- Disposition of solar radiation in sea ice and the upper ocean. Ebert, E.E., et al. [1995,eng] 50-572
- Greenland '90: a first step toward using the polar ice cap as a Cherenkov detector. Barwick, S.W., et al. [1992,eng] 50-4263
- High performance fiber optic hydrophones in the arctic environment. Yurek, A.M., et al. [1995,eng] 50-1211
- Laptev Sea System: Expeditions in 1994. Kassens, H., ed. [1995,eng] 50-3156
- POST: Polar Stratospheric Telescope. Bely, P.Y., et al. [1995,eng] 50-2527
- Solar halos and sun dogs. Glassner, A., [1996,eng] 50-4499
- Vertical light attenuation by phytoplankton absorption in the Greenland Sea. Dalékkén, R., et al. [1995,eng] 50-4131
- Lightning**
- Dual polarization radar observations of thunderclouds in winter season. Sonoi, Y., et al. [1995,eng] 50-4258
- Electrification of thunderstorm cells during cloud ice formation. Ramachandran, R., et al. [1996,eng] 50-3020
- Influence of temperature on microdischarges between ice particles. Coquillat, S., et al. [1996,eng] 50-5385
- Radar observation of cloud ice crystal alignment to predict lightning. Krebbel, P., et al. [1996,eng] 50-4599
- Radar study of the evolution of a lightning producing storm. Carey, L.D., et al. [1996,eng] 50-4598
- Lightweight concretes**
- Freeze-thaw durability of lightweight aggregate concretes. Roberts, J.M., [1995,eng] 50-2626
- Freezing and thawing of lightweight concrete. Hoff, G.C., [1995,eng] 50-2625
- Frost-resistant autoclaved lightweight concrete. Hama, Y., et al. [1993,jpn] 50-3484
- New lightweight technology for the primary cementing of oil-field casings in cold environments. Harris, K.L., [1991,eng] 50-1705
- Special light weight concrete—resistance to rebar corrosion and salt/frost scaling. Havdahl, J., et al. [1995,eng] 50-2658
- Liming**
- Alkaline snow-melting agents containing chlorides and lime for pavements and roads. Ekusa, K., et al. [1996,eng] 50-5591
- Limnology**
- Analysis of long term sulfate and nitrate budgets in a Rocky Mountain basin. Baron, J.S., et al. [1995,eng] 50-2417
- Applications of freshwater diatoms to geographical research. Moser, K.A., et al. [1996,eng] 50-5013
- Bacterial activity in the Schirmacher Ponds in summer. Ramiah, N., [1995,eng] 50-1281
- Bacterial ecosystem dynamics in a high mountain lake. Alfrieder, A., et al. [1996,eng] 50-5681
- Biogenic organic compounds in ponds on the McMurdo Ice Shelf. Schall, C., et al. [1996,eng] 50-3703
- Biogeochemical cycling in a seasonally anoxic lake. Hamilton-Taylor, J., et al. [1996,eng] 50-5818
- Boreal ecosystem development in the northwestern Alaska Range since 11,000 yr B.P. Hu, F.S., et al. [1996,eng] 50-4581
- Chemical correlates of Hg and methyl-Hg in northern Wisconsin lake waters under ice-cover. Watras, C.J., et al. [1995,eng] 50-2125
- Chlorophyll distribution in a body of fresh water covered with ice. Zavoruev, V.V., et al. [1996,eng] 50-5816
- Climate change in the recent evolution of a pro-glacial lake. Webster, J., et al. [1996,eng] 50-3704
- Comment on paper by Schaefer et al. Davies, T.D., et al. [1996,eng] 50-3647
- Copepod adaptability to temperature and salinity in a salt lake. Wang, Z.P., et al. [1989,chi] 50-6777
- Decline of fauna in small streams in the Swedish mountain range. Olofsson, E., et al. [1995,eng] 50-4078
- Diatom distribution on Baffin Island, Canada. Wolfe, A.P., [1996,eng] 50-6514
- Diatom, chrysophyte and protozoan distributions along a latitudinal transect in Fennoscandia. Pienitz, R., et al. [1995,eng] 50-4741
- Ecology and physiology of psychrophilic bacteria from antarctic saline lakes and sea-ice. Nichols, D.S., et al. [1995,eng] 50-4086
- Effect of freezing of water samples on viable counts of environmental mycobacteria. Iivanainen, E., et al. [1995,eng] 50-1953
- Effect of salinity on oxygen metabolism of copepods in a salt lake. Wang, Z.P., [1989,chi] 50-6778
- Effects of acidification on plankton biomass in high mountain lakes. Engle, D., et al. [1995,eng] 50-2149
- Evidence of paleoclimatic snow melt in lacustrine mountain deposits. Norris, R.D., et al. [1996,eng] 50-5082
- Freshwater sub-ice antarctic lake. Kapitsa, A.P., et al. [1996,eng] 50-5213
- Glaciolacustrine environments. Ashley, G.M., [1995,eng] 50-3593
- Heat and dissolved oxygen transport processes in ice-covered lakes. Ellis, C.R., [1994,eng] 50-373
- Hydrochemistry of remote high altitude lakes in the Himalayan region. Gosso, G., et al. [1993,eng] 50-4548
- Hydrologic pathways in an alpine watershed. Mast, M.A., et al. [1995,eng] 50-2418
- Hydrological research on rivers and lakes in the Tibetan Plateau. Portge, K.H., [1994,ger] 50-4787

Linings

- Ice-covered temperate lake limnology. Agbeti, M.D., et al. [1995,eng] 50-739
- In situ bioremediation in arctic Canada. Carss, J.G., et al. [1994,eng] 50-1472
- Lake acidification during mountain snowmelt. Stoddard, J.L. [1995,eng] 50-4076
- Lake surface pollen sediments across the Siberian tree line. Clayden, S.L., et al. [1996,eng] 50-6746
- Lakes and marshes in Hokkaido. Sakata, Y., et al. [1990,jpn] 50-2292
- Land-water interactions: the influence of terrestrial diversity on aquatic ecosystems. Kling, G.W., [1995,eng] 50-3906
- Late Quaternary climatic fluctuations of the Venezuelan Andes. Yureich, R., ed. [1991,eng] 50-5643
- Microfaunal response to fertilization of an arctic tundra stream. Rublee, P.A., et al. [1995,eng] 50-870
- Midge emergence during thaw cycles of a subalpine lake. Sher, T., et al. [1996,eng] 50-4504
- Mixing in ice-covered lakes. Bengtsson, L., [1996,eng] 50-6579
- Monitoring winter hydrologic characteristics of lakes by microwave radiometry. Bordoniskii, G.S., et al. [1995,eng] 50-1402
- New radiochemical procedures for environmental actinide measurements and data quality control. Testa, C., et al. [1995,eng] 50-2344
- Origin of salt in lakes and ponds of the McMurdo Dry Valleys. Takamatsu, N., et al. [1995,eng] 50-3697
- Paleoclimatological implications of lacustrine ostracod ecology. Heaton, T.H.E., et al. [1995,eng] 50-2859
- Paleoecological study of fire-induced lake water acidity variations. Korhola, A., et al. [1996,eng] 50-5020
- Paleoecology of arctic lake sediment macrofossils. Birks, H.H., [1991,eng] 50-3305
- Paleoenvironmental history of a Canadian freshwater lake. Hickman, M., et al. [1996,eng] 50-6696
- Patterns of early lake ontogeny in Glacier Bay as inferred from diatom assemblages. Fritz, S.C., et al. [1995,eng] 50-3750
- Periphytic diatom assemblages from high arctic ponds. Douglas, M.S.V., et al. [1995,eng] 50-1460
- Pesticide degradation in an arctic lake and watershed. Falconer, R.L.M., et al. [1995,eng] 50-1131
- Physical limnological processes under ice. Kenney, B.C., [1996,eng] 50-6578
- Plankton biomass variation in antarctic lakes. Bayliss, P.R., et al. [1995,eng] 50-1336
- Plankton bloom in a Greenland pingo. Kristiansen, J., et al. [1995,eng] 50-366
- Planktonic communities of melt ponds on the McMurdo Ice Shelf, Antarctica. James, M.R., et al. [1995,eng] 50-1282
- Planktonic DNA diversity in the Canadian high Arctic. Van Raay, T.J., et al. [1995,eng] 50-4092
- Qinghai Lake paleohydrological variations due to climatic changes. Nakao, K., et al. [1995,eng] 50-6718
- Record of Warta processes in the base of the mountain Ner River valley. Turkowsk, K., [1993,pol] 50-3667
- Research on clay minerals in salt lakes of China. Xu, C., [1993,chi] 50-1850
- Rivers and lakes of Xizang. Guan, Z.H., et al. [1984,chi] 50-1846
- Rotifer ecology in high-altitude alpine sites. Jersabek, C.D., [1995,eng] 50-4163
- Rotifers from the Canadian High Arctic (Devon Island, Northwest Territories). De Smet, W.H., et al. [1995,eng] 50-4162
- Salt lakes in Xizang. Zheng, X.Y., et al. [1988,chi] 50-1848
- Salt lakes of Inner Mongolia. Zheng, X.Y., et al. [1992,chi] 50-1849
- Salt lakes of Qaidam Basin. Zhang, P.X., et al. [1987,chi] 50-1845
- Seasonal variability in high mountain lake water chemistry. Wögrath, S., et al. [1995,eng] 50-4077
- Snowmelt induced chemical changes in seven streams in the Sierra Nevada, California. Melack, J.M., et al. [1995,eng] 50-2414
- Soluble salts and heavy hydrogen in Bosten Lake. Huang, Z.W., et al. [1991,chi] 50-5134
- Subarctic lake pollution by gold mine arsenic effluent. Bright, D.A., et al. [1996,eng] 50-4207
- Sulphur biogeochemistry in meltwater ponds on the McMurdo Ice Shelf. De Mora, S.J., et al. [1996,eng] 50-3577
- Tardigrades of the Taimyr peninsula with descriptions of two new species. Biserov, V.I., [1996,eng] 50-5294
- Temperate rainforest lakes of Chile and British Columbia. Sotro, D., et al. [1996,eng] 50-4066
- Temperature evolution of a chemically stratified lake. Spiegel, R.H., et al. [1996,eng] 50-6333
- Thermal regime of ice covered Swedish lakes. Bengtsson, L., et al. [1994,eng] 50-5696
- Transient hydrogeological controls on the chemistry of a seepage lake. Krabbenhoft, D.P., et al. [1995,eng] 50-2730
- Treeline/midge correlation, Northwest Territories, Canada. Walker, I.R., et al. [1995,eng] 50-3326
- Tropical toxins ruin arctic catch. Pearce, F., [1995,eng] 50-968
- Ultraviolet radiation effects on arctic lake water organic chemistry. Scully, N.M., et al. [1996,eng] 50-5820
- UV-B-tolerance of alpine and arctic *Daphnia*. Zellmer, I.D., [1995,eng] 50-1972
- Zooplankton communities of lakes in Glacier Bay National Park. Olson, O.G., et al. [1995,eng] 50-3751
- See [also]: Lakes

Linings

- Anti-frost behaviour of concrete lined canal with different structures. Song, B.Q., et al. [1989,chi] 50-1387
- Assessing frost damage in compacted clay liners. Benson, C.H., et al. [1995,eng] 50-1133
- Case history of a lined wastewater treatment lagoon failure. Merrill, K.S., et al. [1996,eng] 50-6150
- Effects of freeze-thaw cycling on geomembrane sheets and their seams. Comer, A.I., et al. [1995,eng] 50-2864
- Frost heave and frost heave force of large U-shaped and concrete lined canals. Li, A.G., [1989,chi] 50-1389
- Hydraulic conductivity of frozen granular soils. Andersland, O.B., et al. [1996,eng] 50-4048
- Predicting the level of frost penetration into landfill covers. Moo-Young, H.K., Jr., et al. [1996,eng] 50-6169
- Preventing frost damage to irrigation canals by geotextile. Chen, L., et al. [1996,eng] 50-6167
- Primary and secondary containment of hazardous substances in cold regions with HDPE liner. Richards, F.T., et al. [1991,eng] 50-1710
- Use of geosynthetics to prevent waterfowl white phosphorus poisoning. Henry, K.S., et al. [1995,eng] 50-2865
- Liquid phases**
- Arctic Pilot Project integrated route analysis. Chapter 2. Physical aspects of the route areas. [1981,eng] 50-3558
- Project of gas liquefaction at the Yamal Peninsula: the problem and solution. Gritsenko, A.I., et al. [1996,eng] 50-4488
- Seaborne oil and gas transportation from Northern Russia. Backlund, A., [1996,eng] 50-4487
- Transport of natural gas as frozen hydrate. Gudmundsson, J.S., et al. [1995,eng] 50-170
- Transportation of Alaska North Slope natural gas to market. Lannom, D.A., et al. [1996,eng] 50-6126
- Liquid cooling**
- Clathrate-like structures in supercooled water. Walrafen, G.E., et al. [1995,eng] 50-155
- Crystallisation and the glass transition in suspensions of hard colloidal spheres. van Meegen, W., [1995,eng] 50-1223
- Depolarized light scattering spectroscopy of glassforming liquids: experimental tests of MCT. Cummins, H.Z., et al. [1995,eng] 50-1222
- Design of capacitor to measure permittivity of supercooled aqueous solutions. Wolter, F., et al. [1996,eng] 50-5503
- Dynamics of metastable states: mode-coupling theory and beyond. Duffy, J.W., et al. [1995,eng] 50-1221
- Effect of electroporation on intracellular ice formation in rye leaf protoplasts. Chandrasekaran, M., et al. [1995,eng] 50-1465
- Experimental study of dielectric relaxation in supercooled alcohols and polyols. Murthy, S.S.N., [1996,eng] 50-4084
- Field-tested model for freeze protection of multiphase pipelines in arctic operations. Eager, K., [1991,eng] 50-1769
- Fish antifreeze protein inhibition of liposome leakage. Hays, L.M., et al. [1996,eng] 50-6220
- Freezing of liquids in a laminar flow in a heat flux cooled circular duct. Prasad, A., et al. [1996,eng] 50-6463
- Fuel additive impairment of diesel fuel low temperature properties. Létoffé, J.M., et al. [1995,eng] 50-4252
- Influence of supercooling on salt-water saturated porous medium. Okada, M., et al. [1996,eng] 50-6762
- Light-scattering spectrum of supercooled liquids. Latz, A., et al. [1996,eng] 50-5102
- Liquid-glass transition in a strong glassformer. Torelli, L.M., et al. [1995,eng] 50-1225
- Microscopic dynamics of glycerol in its crystalline and glassy states. Bermejo, F.J., et al. [1996,eng] 50-4418
- Mode coupling in critical phenomena and supercooled liquids. Kawasaki, K., [1995,eng] 50-1219
- Mode coupling theory of structural relaxations. Götz, W., et al. [1995,eng] 50-1220
- Model of the glass transition. Mansfield, M.L., [1995,eng] 50-1445
- Molecular dynamics investigations of slow relaxations in supercooled liquids. Hansen, J.P., et al. [1995,eng] 50-1226
- Molecular dynamics study of the freezing of clusters of chalcogen hexafluorides. Kinney, K.E., et al. [1996,eng] 50-5780
- Monte Carlo simulation of the glass transition in polymer melts: an application of MCT. Baschnagel, J., [1995,eng] 50-1229
- Numerical studies of Langevin equations for the dynamics of a dense hard sphere fluid. Valls, O.T., et al. [1995,eng] 50-1228
- Quasielastic neutron scattering in glass forming viscous liquids. Petry, W., et al. [1995,eng] 50-1224
- Relaxation dynamics of supercooled polymers. Parthun, M.G., et al. [1995,eng] 50-1572
- Relaxation processes in supercooled carbohydrates. Gangasharan, et al. [1995,eng] 50-1571
- Slow dynamics of water molecules in supercooled states. Gallo, P., et al. [1996,eng] 50-4293
- Supercooled liquids. Mohanty, U., [1995,eng] 50-1405
- Supercooling and the Mpemba effect: when hot water freezes quicker than cold. Auerbach, D., [1995,eng] 50-5706
- Testing mode-coupling theory for a supercooled binary Lennard-Jones mixture. Kob, W., et al. [1995,eng] 50-1227
- Thermal investigation of crystal nucleation from a supercooled liquid. Mu, R., et al. [1996,eng] 50-4354
- Thermodynamic theory of supercooled liquids. Kivelson, D., et al. [1995,eng] 50-943
- Water rotation in supercooled aqueous solutions. Nakahara, M., et al. [1995,eng] 50-153

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- Compressive creep of polycrystalline ice containing a liquid phase. de la Chapelle, S., et al. [1995,eng] 50-595
- Convective instability influence on freezing time of warm water. Maciejewski, P.K., [1996,eng] 50-4220
- Cooperativity and hydrogen bond network lifetime in liquid water. Lamanna, R., et al. [1995,eng] 50-5714
- Dielectric moisture measurement of frozen ground. Frolov, A.D., [1996,rus] 50-6835
- Direct contact melting process on a curved wall coated with a porous layer. Oka, M., et al. [1996,eng] 50-6451
- Fluctuations during melting. Grimsditch, M., et al. [1996,eng] 50-6345
- Formation of poly(vinyl alcohol) cryogels through polymer solution freezing-thawing. Lozinski, V.I., et al. [1995,eng] 50-1177
- Freezing of an aqueous sodium chloride saturated packed bed. Choi, J., et al. [1993,eng] 50-5781
- Ice polymorph pressure determination in a diamond-anvil cell. Haselton, H.T., Jr., et al. [1995,eng] 50-4088
- Influence of supercooling on salt-water saturated porous medium. Okada, M., et al. [1996,eng] 50-6762
- Liquid water below 150K. Johari, G.P., et al. [1996,eng] 50-5444
- Low-temperature amorphous phase in a fragile glass-forming substance. Cohen, I., et al. [1995,eng] 50-5971
- Melting inside a cylinder filled with phase change material. Back, Y.R., et al. [1996,eng] 50-6457
- Micro-solidification of solutions with supercooling. Hayashi, Y., [1996,eng] 50-6431
- Mixed-phase cloud scheme based on a single prognostic equation. Tremblay, A., et al. [1996,eng] 50-6665
- Molecular dynamics study of the freezing of clusters of chalcogen hexafluorides. Kinney, K.E., et al. [1996,eng] 50-5780
- Research on a thermal conductivity measurement of supercooled water. Saito, A., et al. [1996,eng] 50-6475
- Study on the behaviour of the direct contact melting under unsteady condition. Saito, A., et al. [1996,eng] 50-6449
- Testing mode-coupling theory for a supercooled binary Lennard-Jones mixture. Kob, W., et al. [1995,eng] 50-1227
- Use of thermal analysis in the development of a better understanding of frozen food stability. Goff, H.D., [1995,eng] 50-3357
- Liquid solid interfaces**
- Adhesion of oil to plastics, stainless steel and ice. Liukkonen, S., et al. [1995,eng] 50-5716
- Analysis of the transient response of a thermal energy storage unit. Kuznetsov, A.V., [1996,eng] 50-6472
- Controlled melting in a thermal storage phase change material. Prasad, A., et al. [1996,eng] 50-6448
- Convection and freezing around a cylinder in a saturated medium. Okada, M., et al. [1996,eng] 50-6455
- Direct contact melting process on a curved wall coated with a porous layer. Oka, M., et al. [1996,eng] 50-6451
- Experimental study of the melting from discrete heat sources in a vertical enclosure. Duong, T., et al. [1996,eng] 50-6450
- Flame spread over fuel-spilled and/or snow-covered asphalt road. Ishida, H., et al. [1996,eng] 50-4230
- Forced-convection melting characteristics of liquid ice in a horizontal rectangular duct. Yamada, M., et al. [1996,eng] 50-6465
- Freezing of a liquid jet on the inside surface of a cold pipe. Naraghi, M.N., [1994,eng] 50-691
- Freezing of a salt solution in a packed bed. Chellaiha, S., et al. [1995,eng] 50-2956
- Freezing of liquids in a laminar flow in a heat flux cooled circular duct. Prasad, A., et al. [1996,eng] 50-6463
- Heat balance integral method and freezing problems. Lunardini, V.J., [1996,eng] 50-6429
- Heat transfer and convection in an enclosure with a heat-conducting body. Oh, J.Y., et al. [1996,eng] 50-6473
- Ice propagation in concrete. Wang, K., et al. [1995,eng] 50-2633
- Introductory analysis of boundary-layer development on de/anti-icing fluid. Perron, E., et al. [1996,eng] 50-4217
- Introductory analysis of boundary-layer development on de/anti-icing fluid. Perron, E., et al. [1996,eng] 50-4217
- Magnetic resonance imaging of gel phase transformations. Hong, J.S., et al. [1995,eng] 50-2739
- Melting heat transfer of a horizontal ice cylinder immersed within an immiscible liquid. Yamada, M., et al. [1996,eng] 50-6456
- Melting inside a cylinder filled with phase change material. Back, Y.R., et al. [1996,eng] 50-6457
- Method and apparatus for remote detection and thickness measurement of ice or liquid layer. Gagnon, R.E., [1995,eng] 50-3483
- Micro-solidification of solutions with supercooling. Hayashi, Y., [1996,eng] 50-6431
- New non-freezing fluid for a hydraulic system of mechanized supports. Sleptsov, V.P., et al. [1992,rus] 50-811
- Phase transformation in materials with nonuniform phase transition temperatures. Hong, J.S., et al. [1995,eng] 50-755
- Proceedings. International Symposium on Thermal Engineering and Sciences for Cold Regions. 5th. Ottawa, May 19-22, 1996. [1996,eng] 50-6428
- Solidification and melting of water around a vertical heat transfer plate. Hirasawa, Y., et al. [1996,eng] 50-6470
- Solidification of pure liquids and liquid mixtures inside ducts and over external bodies. Fukusako, S., et al. [1994,eng] 50-2348

Liquids

- Study on the behaviour of the direct contact melting under unsteady condition. Saito, A., et al. [1996.eng] 50-6449
Thermal performance of a planar latent heat storage unit for load shifting. Laouadi, A., et al. [1996.eng] 50-6468
Turbine blade icing model. Finstad, K.J., et al. [1992.eng] 50-3628

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- Acid stimulation of Endicott Kekikuk Formation, North Slope, Alaska. Hsi, C.K.D., et al. [1991.eng] 50-1751
Compositional simulation and performance analysis of the Prudhoe Bay Miscible Gas Project. McGuire, P.L., et al. [1991.eng] 50-1702
New non-freezing fluid for a hydraulic system of mechanized supports. Sleptsov, V.P., et al. [1992.rus] 50-811
Newest weapons in the battle against airframe icing. Czaplyski, V., [1994.eng] 50-2989
Optimal fracture stimulation of a moderate permeability reservoir, Kuparuk River unit. Pearson, C.M., et al. [1991.eng] 50-1701
Which deicing fluids should be used and how. DiNunno, G., [1992.eng] 50-2984
See [also]: Frozen liquids

Lithology

- Abraded rock landforms (whalebacks) developed under ice streams in mountain areas. Evans, I.S., [1996.eng] 50-6234
Acid stimulation of Endicott Kekikuk Formation, North Slope, Alaska. Hsi, C.K.D., et al. [1991.eng] 50-1751
Acquisition and processing of remote sensing data on ore deposits. Guo, H.D., et al. [1993.chi] 50-2380
Active patterned ground and cryoturbation on Muckish Mountain, Co. Donegal, Ireland. Wilson, P., et al. [1995.eng] 50-665
Analysis on metamorphism of Ertix structural belt in northern Xinjiang. Sui, J.X., [1993.chi] 50-2370
Atlantic Ocean sedimentary evidence for Pleistocene ice rafting. Robinson, S.G., et al. [1995.eng] 50-1110
Bedrock surface weathering on Finnish fjell summits. McCarron, D., et al. [1996.eng] 50-5825
Block moraine formation of antarctic glaciers. Fitzsimons, S.J., [1996.eng] 50-6242
Carboniferous litho facies-paleogeography and its tectonic condition in northern Xinjiang. Wei, Z.L., et al. [1993.chi] 50-2367
Carboniferous siliceous rock and its relation to metallic sulfide deposits in northern Xinjiang. Yang, W.H., et al. [1993.chi] 50-2358
Chronology of late Wisconsin ice retreat from the western Ross Sea, Antarctica. Licht, K.J., et al. [1996.eng] 50-3814
Chronology of Upper Pleistocene stratified slope-waste deposits in central Italy. Coltorti, M., et al. [1996.eng] 50-6700
Conglomerate identification and mapping leads to development success in a mature Alaskan field. O'Sullivan, T.P., et al. [1991.eng] 50-1756
Controls on glacier surging in Svalbard. Hamilton, G.S., et al. [1996.eng] 50-4900
Cryogenic phenomena in the lithosphere. Gavrilov, A.V., et al. [1996.rus] 50-6352
Cryolithological structure of Quaternary deposits on Wrangel Island. Kotov, A.N., et al. [1996.rus] 50-6379
Dating of Norwegian Pleistocene rock sediments. Balashov, I.U.A., et al. [1995.eng] 50-5534
Diamictite facies in the middle glacial periods. Olszewski, A., [1989.pol] 50-2895
Distribution, origin, and hydraulic influence of fractures in a clay-rich glacial deposit. McKay, L.D., et al. [1995.eng] 50-3254
Early Holocene environment on Bjørnøya from lake sediments. Wohlfarth, B., et al. [1995.eng] 50-4721
Early stages of till genesis: an example from Fanore, County Clare, Ireland. Croot, D.G., et al. [1996.eng] 50-5828
Ecological significance of German mountain periglacial deposits. Fröhlich, M., [1990.eng] 50-4565
Electrical and magnetic methods for gold exploration. Shi, K.F., et al. [1993.chi] 50-2387
Ertix volcanic rocks and tectonic evolution. Yu, X.Y., et al. [1993.chi] 50-2364
Eskers: an essay of bibliographic review. Levasseur, D., [1995.fre] 50-5042
Evidence of Holocene sea level rise from Nova Scotian bottom sediments. Scott, D.B., et al. [1995.eng] 50-4528
Fifty years of scientific research at the Chair of Cryolithology and Glaciology (1945-1995). Voikovskii, K.F., et al. [1995.rus] 50-4110
Foraminiferal evidence of Younger Dryas age cooling on the British Columbia shelf. Patterson, R.T., et al. [1995.eng] 50-5039
Formation of De geer moraines deposited subglacially, central Québec. Beaudry, L.M., et al. [1995.eng] 50-5035
Frozen ground landscapes of Yakutia: explanatory notes to a map. Fedorov, A.N., et al. [1989.rus] 50-5005
Genetic types of granitoids and their mineralization in northern Xinjiang. Wang, Z.G., et al. [1993.chi] 50-2359
Geochemical correlation between coarse and fine fractions of till in southern Finland. Tarvainen, T., [1995.eng] 50-2705
Geochemical process responses to potential Scandinavian climatic change. Dixon, J.C., et al. [1995.eng] 50-4194
Geochemical studies of layered ground ice and frozen rocks (from work on Ney-To Lake). Dubikov, G.I., [1983.rus] 50-312
Geochemistry of the Ulungur-Zhaisangpo tectonic melange belt. Liu, W., et al. [1993.chi] 50-2366

- Geocryological reconstructions for the central Russian Plain. Ershov, E.D., et al. [1996.rus] 50-6354
Geological evolution and diagenetic mineralization in Xinjiang. Tu, G.Z., [1993.chi] 50-2351
Geological map (1:25,000) of the SW part of Wedel Jarlsberg Land. Czerny, J., et al. [1993.eng] 50-2197
Geology and mineralogy of some important nonmetal deposits. Cao, J.C., et al. [1993.chi] 50-2379
Geology of a Spitsbergen fault zone. Lamar, D.L., et al. [1995.eng] 50-4296
Geophysical model of ore-bearing rock in Xinjiang. Zhang, S.Z., et al. [1993.chi] 50-2383
Geophysical prospecting methods for Cu-Ni minerals. Zhang, S.Z., et al. [1993.chi] 50-2381
Glacial erosion as a consequence of subglacial sediment deformation. Boulton, G.S., [1996.eng] 50-4891
Glacial geology and petrography of erratics in Shackleton Range, Antarctica. Höfle, H.C., et al. [1995.eng] 50-1525
Gold mineralization in western Junggar. Shen, Y.C., et al. [1993.chi] 50-2371
High-alkaline intrusive rock belts in northern Xinjiang. Wang, Z.G., et al. [1993.chi] 50-2362
Holocene sediments of the Russian east-arctic seas. Iashin, D.S., et al. [1995.eng] 50-2104
Implication of glacial dispersal patterns for mineral exploration. McClenaghan, M.B., et al. [1996.eng] 50-6515
Karakorum ice cover variations during the last glaciation. Kühle, M., [1994.eng] 50-1533
Landforms associated with Pleistocene glaciation in Ireland. Wilson, P., et al. [1995.eng] 50-5486
Last deglaciation of the Franz Victoria Trough, northern Barents Sea. Lubinski, D.J., et al. [1996.eng] 50-6535
Late Pleistocene sedimentary environment near Urumqi. Han, S.T., et al. [1985.chi] 50-1998
Lateral interactions and rheologic superposition in subglacial till near Bradville, Ontario, Canada. Hicock, S.R., [1992.eng] 50-2550
Mafic intrusive body bearing Cu-Ni mineralization in Xinjiang. Yuan, Q.L., et al. [1993.chi] 50-2376
Magmatic activities and its relation to tectonic setting and gold mineralization in western Junggar. Jin, C.W., et al. [1993.chi] 50-2360
Magnetic analysis of glacialic sediment weathering. Walden, J., et al. [1995.eng] 50-6562
Major paleohydrographic changes in alpine foreland during the Pliocene-Pleistocene. Petit, C., et al. [1996.eng] 50-6538
Mapping the architecture of glaciofluvial sediments with three-dimensional georadar. Beres, M., et al. [1995.eng] 50-2529
Marine record of deglaciation from the continental margin off Nova Scotia. Keigwin, L.D., et al. [1995.eng] 50-3001
Marine record of the Russell Fiord outburst flood, Alaska. U.S.A. Cowan, E.A., et al. [1996.eng] 50-6260
Metallogenic geology and geochemistry related to Ertix volcanism. Liu, T.G., et al. [1993.chi] 50-2375
Metallogenic mechanism of Cu in Altay. Li, Z.C., [1993.chi] 50-2374
Metallogenic mechanism of tungsten deposit in Alatau. Wang, K.R., et al. [1993.chi] 50-2373
Muon μ -particle: a new technique for mineral exploration. Zhou, D.Z., [1993.chi] 50-2382
New advances in solid earth sciences in northern Xinjiang. Tu, G.Z., ed. [1993.chi] 50-2350
New development in the study on Carboniferous biostratigraphy in northern Xinjiang. Liao, Z.T., et al. [1993.chi] 50-2356
Norwegian Pleistocene crustal metamorphism. Ohta, Y., et al. [1995.eng] 50-5535
Novel Pleistocene ice flow directions in Poland and Germany. Lagerlund, E., et al. [1995.eng] 50-509
Nunataks of the last ice sheet in northwest Scotland. McCarroll, D., et al. [1995.eng] 50-3366
On the sedimentological character of alpine basal ice facies. Hubbard, B., et al. [1996.eng] 50-6259
Ophiolite belts and their genetic environment in western Junggar. Zhang, C., et al. [1993.chi] 50-2355
Overlapping mineralization of Karatongki Cu-Ni deposit. Zhan, X.Z., [1993.chi] 50-2377
Paleoecology of two lake basins from Disko, West Greenland. Bennike, O., [1995.eng] 50-1081
Paleogeography of Cenozoic lithofacies and their evolution in the Qaidam Basin. Yang, Z.L., [1986.chi] 50-1982
Paleozoic petroleum source rocks in Saskatchewan and Manitoba. Osadetz, K.G., et al. [1995.eng] 50-232
Paleozoic stratigraphy of ophiolites and their tectonic setting in Xinjiang. Wu, H.R., et al. [1993.chi] 50-2361
Pb-Zn-Au deposits in Carboniferous strata of northern Xinjiang. Yang, W.H., et al. [1993.chi] 50-2357
Percentage of local rocks in fluvio-glacial deposits in central Poland. Krzeminski, T., et al. [1993.pol] 50-3662
Periglacial elements in the geological structure and relief of northern Czechoslovakia. Kobojek, S., [1990.pol] 50-4941
Petroleum in glacially-related sandstones of Gondwana: a review. Potter, P.E., et al. [1995.eng] 50-3252
Petroleum-producing sequences in the Phanerozoic deposits of the arctic islands. Daniushevskaia, A.I., [1996.eng] 50-5704
Pleistocene glacial lake sedimentology, Scotland. Benn, D.I., [1996.eng] 50-5827
Pleistocene paraglacial landsliding in South Wales. Shakesby, R.A., et al. [1996.eng] 50-5859
Pleistocene soil evolution in a Russian upland. Sycheva, S.A., [1995.eng] 50-2147

- Pleistocene stratigraphy in the Lappajärvi meteorite crater in Ostrobothnia, Finland. Salonen, V.P., et al. [1992.eng] 50-2556
Pleistocene stratigraphy of the Athabasca River valley region, Rocky Mountains, Alberta. Levson, V.M., et al. [1995.eng] 50-5037
Pre-Illinoian glacial stratigraphy in north-central Missouri. Rovey, C.W., III, et al. [1996.eng] 50-4585
Profiles at Brus and Ruda (Lublin Polesie), and their significance for Mesopleistocene stratigraphy. Wojtanowicz, J., [1995.eng] 50-2615
Rare earths in the granitoids of the Altay region. Zhao, Z.H., et al. [1993.chi] 50-2368
Recent drumlins, flutes and lineations at Vestari-Hagafellsjökull, Iceland. Hart, J.K., [1995.eng] 50-1880
Regional geochemistry of Alatau region. Li, S.G., et al. [1993.chi] 50-2369
Regional metallogenic model of Alatau region. Man, F.S., et al. [1993.chi] 50-2372
Regional stratigraphy and lithology of the Carpathian loess deposits in Przemyśl environs. Lanczont, M., [1995.eng] 50-2614
Remote sensing for mineral exploration in northern Xinjiang. Guo, H.D., et al. [1993.chi] 50-2384
Remote sensing of East Greenland mafic intrusion lithology. Birnie, R.W., et al. [1989.eng] 50-3935
Reservoir potential of an upwelling deposit, Prudhoe Bay. Kupecz, J.A., [1995.eng] 50-6551
Role of principles and methods in loess-paleoecological investigations. Pécsi, M., [1995.eng] 50-1035
Sedimentary petrogenesis and its characteristics in the cryolithozone. Danilov, I.D., [1995.eng] 50-6074
Sedimentology and geomorphology of drumlins in western Allgäu, south Germany. De Jong, M.G.G., et al. [1982.eng] 50-3381
Sequence of glacial ice flows in Abitibi-Timiskaming. Veillette, J.J., et al. [1996.eng] 50-2499
Sequence types of Upper Quaternary deposits in the Kara Sea. Levitan, M.A., et al. [1995.eng] 50-3546
Sliding of glacial till over bedrock. Hindmarsh, R.C.A., [1996.eng] 50-6238
Some lithological-geochemical features of modern bottom sediments of the Laptev Sea shelf. Iakovlev, A.V., [1995.eng] 50-2101
Source of Quaternary deposits at the foot of the West Kunlun Mountains, Xinjiang. Zhu, L.P., [1994.eng] 50-1539
Stable isotopic character of mineralization of some deposits in northern Xinjiang. Zhang, G.X., et al. [1993.chi] 50-2378
Statistical analysis of lithology of Arctic Ocean sediments. Darby, D.A., et al. [1996.eng] 50-5025
Stratigraphy of redeposited fossils in Norwegian Pleistocene sediments. Vorren, T.O., et al. [1981.eng] 50-3625
Stratigraphy of Yorkshire, England glacial deposits. Evans, D.J.A., et al. [1995.eng] 50-6213
Study of brash ice in the proximal marine zone of a sub-polar tidewater glacier. Smith, N.D., et al. [1996.eng] 50-6224
Study on Quaternary moraine debris of Mount Xixia Bangma region. Zhang, S.Y., [1982.chi] 50-6603
Tectonic records derived from petrology at a glacier fringe. Pavlis, T.L., et al. [1995.eng] 50-1833
Tholeiitic-alkalic transition at subglacial volcanoes, Tuva region, British Columbia, Canada. Moore, J.G., et al. [1995.eng] 50-3012
Till genesis through shear diffusion. Charbonneau, R., et al. [1995.eng] 50-3364
Till provenance studies of Idaho paleoglaciators. Brugger, K.A., [1996.eng] 50-6245
Trace element geochemistry of volcanic rocks along the Ertix River. Mei, H.J., et al. [1993.chi] 50-2365
Utility of imaging spectrometry for lithologic mapping in Greenland. Rivard, B., et al. [1992.eng] 50-1651
Warta Glaciation deposits within the non-glaciated zone in the Polesie Lubelskie. Wojtanowicz, J., [1993.pol] 50-3668
Weddell Sea glaciomarine sedimentation variations. Crawford, K., et al. [1996.eng] 50-6261
Litter
Fine root production and decomposition on drained peatlands. Finér, L., et al. [1994.eng] 50-3217
Modeling decomposition in arctic ecosystems. Moorhead, D.L., et al. [1996.eng] 50-4854
Role of above-ground biomass in carbon cycling in drained peatland ecosystems. Laiho, R., et al. [1994.eng] 50-3216
Littoral zone
Arctic algal communities in the region of the Nuvuk Islands, northeastern Hudson Bay, Canada. Keats, D.W., et al. [1989.eng] 50-3692
Arctic kelp community in the Alaskan Beaufort Sea. Duntton, K.H., et al. [1982.eng] 50-3681
Arctic tropospheric chemistry. Hernández, M.D.A., [1996.eng] 50-3868
Basis for statistical inferences in coastal injury assessment of Exxon Valdez oil spill. McDonald, L.L., et al. [1995.eng] 50-3922
Damming James Bay: I. Potential impacts on coastal climate and the water balance. Rouse, W.R., et al. [1992.eng] 50-5030
Damming James Bay: II. Impacts on coastal marshes. Price, J.S., et al. [1992.eng] 50-5031
Description of Kolya River landscapes and soils. Smith, C.A.S., et al. [1995.eng] 50-4698

Loading

- Effect of the mineral composition of soils on the coastal vegetation of the Chukotskiy Peninsula. Sergienko, L.A., [1991.rus] 50-1308
- Impact of climate change on carbon cycle in freshwater ecosystems. Kankaala, P., et al., [1994.eng] 50-3201
- Navigation and the pollution of the coastal zone of Arctic seas. Slevich, S.B., et al., [1991.rus] 50-1319
- Paleoecological implications of frost-shattered sediments on the Norwegian coast. Blikra, L.H., et al., [1995.eng] 50-2167
- Prince William Sound intertidal biota—good news and bad news five years later. Houghton, J.P., et al., [1995.eng] 50-5730
- Shoreline ecology program following the Exxon Valdez oil spill, pt.2. Boehm, P.D., et al., [1995.eng] 50-3924
- Shoreline ecology program following the Exxon Valdez oil spill, pt.3. Gillfillan, E.S., et al., [1995.eng] 50-3925
- Stability of sublittoral, fine-grained sediments in a subarctic estuary. Amos, C.L., et al., [1996.eng] 50-4044
- Succession in the Hudson Bay lowland, northern Ontario, Canada. Klinger, L.F., et al., [1996.eng] 50-5491
- Transient hydrogeological controls on the chemistry of a seepage lake. Krabbenhoft, D.P., et al., [1995.eng] 50-2730
- Use of mussels to assess bioavailability of hydrocarbons from the Exxon Valdez oil spill. Shigenaka, G., et al., [1995.eng] 50-3920

Loading

- Compacted snow road. 1. Properties of snow. Eriksson, R., [1959.eng] 50-3853
- Fracture toughness of freshwater ice—part I: experimental technique and results. Weber, L.J., et al., [1996.eng] 50-5158
- Fracture toughness of freshwater ice—part II: analysis and micrography. Weber, L.J., et al., [1996.eng] 50-5159
- Heaving pressures as a means of assessing frost susceptibility. Kettle, R.J., et al., [1981.eng] 50-2142
- Ice-breaking device frees structures [1989.eng] 50-5650
- Large-scale loading and collapse of natural sea ice and natural-artificial ice laminates. Lichtenberger, G.J., [1991.eng] 50-1718
- Manual for freezing soil heave stress testing unit. Martin, R.T., [1974.eng] 50-4265
- Photoviscoelastic modeling of the creep of frozen soil. Zhao, X.S., et al., [1996.eng] 50-6743
- Universal frost susceptibility test apparatus. Chamberlain, E.J., [1986.eng] 50-1974
- Wear resistant concrete for pavements. Pedersen, N., [1988.eng] 50-4227
- Loads (forces)**
- Contact force and damage evolution in a moving uniaxial ice bar. Shin, J.G., et al., [1990.eng] 50-99
- Definition of the loading regime on offshore structures from drifting ice covers. Bekker, A.T., et al., [1996.eng] 50-4463
- Ductile-to-brittle transition of compressed ice. Schulson, E.M., et al., [1995.eng] 50-2157
- Evaluation of double-sided beam and girder constructions tension subject to local ice loads. Barabanov, N.V., et al., [1996.eng] 50-4465
- Marine hydro-engineering and the mechanization of loading operations in ports. Iakovlev, P.I., ed., [1992.rus] 50-756
- Mechanics of marine screw propeller ice cutting processes. Veitch, B., [1995.eng] 50-4154
- Method to calculate pack ice driving forces. Evgin, E., et al., [1995.eng] 50-1283
- Methodological prerequisites for using time analogy methods in frozen ground mechanics. Roman, L.T., et al., [1996.rus] 50-6830
- On the estimation of frost loads. Rajani, B., et al., [1996.eng] 50-6751
- Question of using highly durable steels in the metal construction of load bearing machines. Pustovoi, V.N., [1992.rus] 50-759
- Reinforcement percentage effects on bending strength of soil-ice mixtures. Nixon, W.A., et al., [1995.eng] 50-358
- Results of experimental studies on resistance of thawing ground to a normal load. Torgashev, V.V., [1993.rus] 50-129
- Strength of composite ice-resisting walls subjected to combined loads. Stephens, M.J., et al., [1990.eng] 50-95
- See [also]: Dynamic loads; Ice loads; Ice pressure; Pile load tests; Snow loads; Soil pressure; Static loads; Water pressure; Wind pressure

Loams

- Aeolian facies belts in the Taklimakan Desert. Li, B.S., et al., [1995.eng] 50-4127
- Characteristics of the development of thermo-erosional gullies on mid-alassy slopes. Varlamov, S.P., [1996.rus] 50-6405
- Compressibility of perennially frozen loams in Chita. Torgashev, V.V., et al., [1993.rus] 50-126
- Cryogenic state of soil in the cryolithozone (Yakutia). Gavril'ev, P.P., et al., [1996.rus] 50-6844
- Cryogenic structure of surface deposits in Central Yakutia. Konchenko, L.A., [1996.rus] 50-6378
- Effect of technogenic disturbances on the thermal regime of soils in Central Yakutia. Skriabin, P.N., et al., [1996.rus] 50-6394
- Evaluating the deformation and strength properties of frozen ground using an acoustic method. Zykov, I.U.D., et al., [1995.rus] 50-2504
- Experimental studies of the interaction of oil with cryogenic rocks. Ershov, E.D., et al., [1996.rus] 50-6823
- Experimental studies on the resistance of frozen ground to maximum thermo-erosion washout. Pendin, V.V., et al., [1996.rus] 50-6407
- Mathematical model and the Takashi model of soil freezing. Nakano, Y., [1996.eng] 50-6485

- Physical-chemical fundamentals of strength of frozen saline soils. Roman, L.T., et al., [1996.rus] 50-6826
- Locks (waterways)**
- Automation opportunities at Corps of Engineers locks and dams. Carey, K.L., [1995.eng] 50-1518
- Ice passage. [1996.eng] 50-4621
- Loess**
- Aeolian facies belts in the Taklimakan Desert. Li, B.S., et al., [1995.eng] 50-4127
- Buried loess in the Bohai Sea bottom and exposed along the coast. Liu, J.P., et al., [1995.chi] 50-4125
- Chinese loess accumulation compared to Greenland ice core climatology. An, Z.S., et al., [1995.eng] 50-1065
- Chronostratigraphy of Warta loesses and correlation with glacial deposits in Poland. Maruszczak, H., [1993.pol] 50-3664
- Determination of the mineral composition of similar types of paleosols intercalated in loess sequences. Gerei, L., et al., [1995.eng] 50-1044
- Determination of total carbonate content in some representative loess-paleosol profiles. Gerei, L., et al., [1995.eng] 50-1043
- Dusty deposits (loesses) of the contemporary arctic zone. Wojtanowicz, J., [1993.eng] 50-2214
- Electron scanning of Quaternary deposit grain shape. Molár, B., et al., [1995.eng] 50-1040
- Evolution of lowland landscapes in northeastern Asia during Late Quaternary time. Tomirdaro, S.V., [1982.eng] 50-3370
- Fossil burrows of mammals in the loessic deposits of the Kolyma-Indigirka Lowland. Gubin, S.V., et al., [1996.eng] 50-4146
- Geochemistry of niveo-eolian sediments in Spitsbergen. Gorniak, A., et al., [1993.eng] 50-2200
- Granulometric investigations of loess profiles in Hungary. Kis, É., [1995.eng] 50-1039
- Ice-volume forcing of East Asian winter monsoon variations in the past 800,000 years. Ding, Z.L., et al., [1995.eng] 50-965
- Identification of paleosol types and their applicability for paleoclimatic reconstructions. Morozova, T., [1995.eng] 50-1046
- Land form development and pedogenesis: the effects of the last glacial cycle in the forest of Fougères (Ille et Villaine, Brittany, France). Van Vliet-Lanoë, B., et al., [1995.fre] 50-2996
- Late Pleistocene environment of north China. Zheng, H.H., et al., [1991.chi] 50-1844
- Late Pleistocene soil formation on coastal lowlands of northern Yakutia. Gubin, S.V., [1995.eng] 50-963
- Loess distribution, origin, and chronology. Pécsi, M., [1990.ger] 50-1794
- Loess layer and the paleoclimate of northern piedmont of Tian Shan. Zhang, H.Y., et al., [1985.chi] 50-2003
- Loess sediment isotopic properties related to paleoclimate. Li, C.Y., et al., [1995.eng] 50-1555
- Loess-paleosol dating method. Zhu, Z.Y., [1995.eng] 50-1050
- Magnetic climatology: mineral magnetism and the ice ages. Heller, F., et al., [1996.ger] 50-4743
- Method for the study of Quaternary environmental evolution of the loess plateau in China. Zhang, Z.H., et al., [1995.eng] 50-1045
- Methodology of loess palynology. Zelikson, E.M., [1995.eng] 50-1049
- Methods for classifying apparently homogeneous loess sequences. Molár, B., et al., [1995.eng] 50-1041
- Mineral composition of the fine-dispersed fractions of loess and soil processes developed in them. Chizhikova, N.P., et al., [1995.eng] 50-1042
- Morphoscopy and morphometry of quartz grains from loess and buried soil layers. Velichko, A.A., et al., [1995.eng] 50-1038
- On the paleoclimatology of the Tibetan Plateau during the last glaciation. Frenzel, B., [1994.ger] 50-4777
- Paleocryogenic analysis of loess-paleosol sequences. Velichko, A.A., et al., [1995.eng] 50-1036
- Paleoecological reconstruction of the Late Pleistocene, based on loess Malacofauna in Hungary. Krolopp, E., et al., [1995.eng] 50-1048
- Paleoclimatic changes on the northern side of the central Himalaya. Fort, M., [1996.eng] 50-5096
- Paleoclimatic models of Chinese loess and paleosol sequences. Thompson, R., et al., [1995.eng] 50-2542
- Paleoenvironmental implications of modern periglacial eolian deposits. Dijkman, J.W.A., et al., [1991.eng] 50-5172
- Paleomagnetic changes within the Brunhes Epoch in the Basaharc loess profile, Hungary. Balogh, J., [1995.eng] 50-1051
- Plio-Pleistocene megacycles: record of climate and tectonics. Kukla, G., et al., [1996.eng] 50-5099
- Processes in soils and paleosols—a new method for the study of weathering. Nemeček, E., et al., [1995.eng] 50-1037
- Quaternary loess and stratigraphy in Inner Mongolia. Dong, G.R., et al., [1986.chi] 50-1991
- Quaternary of the loess plateau. Sun, J.Z., ed. et al., [1991.chi] 50-2010
- Regional stratigraphy and lithology of the Carpathian loess deposits in Przemysl environs. Łanczont, M., [1995.eng] 50-2614**
- Relevance of thermoluminescence dating of Pleistocene loess to volcanic eruptive history. Berger, G.W., et al., [1995.eng] 50-2118
- Role of principles and methods in loess-paleosol investigations. Pécsi, M., [1995.eng] 50-1035
- Satellite imagery for soil conservation in the loess plateau. Wang, C.Y., ed. et al., [1990.chi] 50-4165
- Simulation of Quaternary loess deposit magnetic profiles. Anderson, R.S., et al., [1996.eng] 50-4584

- Some tensile creep characteristics of frozen loess. Shen, Z.Y., et al., [1995.chi] 50-5622
- Stratigraphy of slope deposits and soils in the northeastern Great Basin and vicinity. Kleber, A., [1993.eng] 50-1681
- Stratigraphy of valley sediments of Polish river drainage basins. Superson, J., [1995.eng] 50-2616
- Strength characteristics of frozen soil under torsional loading. Peng, W.W., et al., [1995.chi] 50-5638
- Study of remote sensing application in the loess plateau of north Shaanxi Province. Chinese Academy of Sciences. Institute of Remote Sensing Applications, Beijing (Zhongguo kexueyuan Yaogan yingyong yanjiusuo), [1991.chi] 50-6646
- Terrestrial molluscs as indicators of global aeolian dust fluxes during glacial states. Rousseau, D.D., [1992.eng] 50-2552
- Thermoluminescence ages of loess and associated sediments in central Nebraska, USA. Pye, K., et al., [1995.eng] 50-2166
- Thermoluminescence dating of Alaskan Pleistocene tephra. Berger, G.W., et al., [1996.eng] 50-5188
- Logging** See [also]: Radioactive logging; Well logging
- Logistics**
- 1994-1995 antarctic field season. Roberts, C.A., et al., [1995.eng] 50-2477
- Air Transport Options Workshop, to be held at the Antarctic Division, Hobart, Wednesday, 1 March 1995. Australia. Antarctic Science Advisory Committee, [1995.eng] 50-6417
- Airborne Polar Experiment. CNR Direzione Centrale Attività Scientifiche, [1994.eng] 50-6197
- Aircraft operation for earth science study in the Yamato Mountains by JARE 35. Funaki, M., [1995.jp] 50-3496
- Algorithm for optimizing road salting routes. Li, L.Y.O., et al., [1996.eng] 50-4011
- Antarctic commute: CRREL searches for safe land route to South Pole. Chalmers, P., [1996.eng] 50-3239
- Antarctic Walk Environmental Research Expedition, 1991-1993. Yoshikawa, K., ed. et al., [1995.eng] 50-4381
- Assessment of the use of deicing salts. Breitenstein, J., [1996.ger] 50-3617
- Contributions to antarctic research IV. Elliot, D.H., ed. et al., [1995.eng] 50-1190
- Danish Polar Center annual report, 1994. Dansk Polarcenter, [1995.eng] 50-659
- Dome-Fuji deep drilling facility, JARE 35. Saito, T., [1995.jp] 50-3497
- Effects of northern shipping and storage on corrosion performance. Perrigo, L.D., III, et al., [1996.eng] 50-5952
- End of season report: Operation Deep Freeze 95/96. U.S. Naval Support Force Antarctica, [1996.eng] 50-5807
- Helicopter services for USAP and NZAP. Petroleum Helicopters, Inc., [1996.eng] 50-5925
- How to battle snow and ice. Askew, D., [1995.eng] 50-3858
- Indiana streamlines permitting and ice/snow removal. Pittman, R., [1996.eng] 50-3495
- JARE-33 activities in summer 1991-1992 and winter 1992. Fukuchi, M., et al., [1996.jp] 50-6348
- Logistics in arctic corrosion control. Dart, T.R., [1996.eng] 50-5949
- Logistics in remote areas in Greenland. Andersson, T.I.H., et al., [1995.eng] 50-2967
- Matériel delivery to A-SSP Station. DenHartog, S.L., et al., [1995.eng] 50-1195
- Operations management for urban snow removal and disposal. Campbell, J.F., et al., [1995.eng] 50-1107
- Relocation of telecommunication facilities at Syowa Station. Takada, K., [1995.jp] 50-3499
- Report of the Hokkaido University 3rd Alaska glacier survey, June 17-July 28, 1975. Higashi, A., [1976.jp] 50-482
- Report on the 30th Soviet Antarctic Expedition. Sovetskaya antarkicheskaya ekspeditsiya, [1992.rus] 50-144
- Snow and ice control. Minnesota. Office of the Legislative Auditor, [1995.eng] 50-3596
- Snow in the cities—a history of America's urban response. McKelvey, B., [1995.eng] 50-1123
- Swedish Antarctic Research Programme, 1989/90: a cruise report. Reuterskiöld, M., [1992.eng] 50-1418
- Symposium on Antarctic Logistics and Operations, 6th. Proceedings. Symposium on Antarctic Logistics and Operations, 6th, Rome, Italy, Aug. 29-31, 1994, [1994.eng] 50-4267
- United States Antarctic Program. Roberts, C.A., et al., [1994.eng] 50-105
- Winter maintenance: back to the basics. [1995.eng] 50-3856
- Workshop on Antarctic Air Transport Networks. Council of Managers of National Antarctic Programs, [1995.eng] 50-6270
- Long range forecasting**
- Back to basics: world climatic types. Salmond, J., et al., [1996.eng] 50-3726
- Climate change and snow-cover duration in the Australian Alps. Whetton, P.H., et al., [1996.eng] 50-4751
- Climate of western Siberia: past and future. Bukreeva, G.F., et al., [1995.eng] 50-6583
- Evidence of a 22-year cycle in air temperature. Ol', A.I., et al., [1991.rus] 50-1639
- Long range forecasting of avalanche regimes and some ecological changes on Zailiyskiy Altai. Kondrashov, I.V., et al., [1991.rus] 50-9
- Long-term observations for monitoring of the cryosphere. Walsh, J.E., [1995.eng] 50-3350
- Organization of the river and flood program in the National Weather Service. Stallings, E.A., et al., [1995.eng] 50-1135

Low frequencies

Luminescence

- Paleoclimate data constraints on climate sensitivity: the paleocalibration method. Covey, C., et al. [1996,eng] 50-4150
- Probability distributions used in 100-year return period of air-freezing index. Steurer, P.M., [1996,eng] 50-4753
- Siberian future climate predictions. Volkova, V.S., et al. [1995,eng] 50-6584
- Snowpack water equivalent statistic derived from an observer network. Wilks, D.S., et al. [1996,eng] 50-5199
- Spring snowpack anomaly patterns and winter climatic variability, British Columbia, Canada. Moore, R.D., et al. [1996,eng] 50-3492
- Two-year simulation of the Great Lakes region with a coupled modeling system. Bates, G.T., et al. [1995,eng] 50-1566
- Low frequencies**
- Analysis of spatial reverberation statistics in the central Arctic. LePage, K., et al. [1996,eng] 50-5191
- Simulation of clathrate hydrate thermal conductivity. Inoue, R., et al. [1996,eng] 50-5505
- Low temperature research**
- Anisotropy in the adsorption of H₂O at low coordination sites on Pt(111). Morgenstern, M., et al. [1996,eng] 50-6199
- Antarctic journal of the United States, Vol.30, No.1-4. U.S. National Science Foundation, [1995,eng] 50-6499
- Arctic and Antarctic Research Center: support for research during 1994-1995. Whittier, R.H., et al. [1995,eng] 50-6502
- Automated DIMM telescope for Antarctica. Dopita, M.A., et al. [1996,eng] 50-5270
- Development of JARE deep ice coring system (III). Takahashi, A., et al. [1996,jpn] 50-6347
- Evaporation rate, free energy, and entropy of amorphous water at 150 K. Speedy, R.J., et al. [1996,eng] 50-5920
- Frozen startup in heat pipes. Faghri, A., [1995,eng] 50-3517
- Greenland Ice-Core Project (GRIP): three years of activity. Maggi, V., et al. [1994,ita] 50-2821
- History of cold regions heat transfer: chronology. Cheng, K.C., et al. [1996,eng] 50-6433
- INACH expedition to Patriot Hills, Nov.-Dec. 1995. Casassa, G., [1996,spa] 50-5802
- Japanese antarctic activities for 1995-1996. Tokyo. National Institute of Polar Research, [1996,eng] 50-2608
- JARE-33 activities in summer 1991-1992 and winter 1992. Fukuchi, M., et al. [1996,jpn] 50-6348
- Low-temperature amorphous phase in a fragile glass-forming substance. Cohen, I., et al. [1995,eng] 50-5971
- National Antarctic Research Program. Cervellati, R., [1994,ita] 50-2823
- NERC Arctic research station. Cox, N., [1996,eng] 50-3705
- New geography of the polar regions: synthesis and perspectives. Orombelli, G., ed. et al. Atti del Convegno della Società Geografica Italiana, Roma, 21-22 Novembre 1991 (Proceedings of the Italian Geographical Society Conference, Rome, 21-22 November 1991), [1994,ita] 50-2817
- North Sea and Norwegian Sea hydrocarbon exploration. Alberti Di Catenaja, C., et al. [1994,ita] 50-2818
- Report of "Workshop on the Glaciological Technology in Polar Regions". Kamiyama, K., [1995,jpn] 50-661
- Report on the 30th Soviet Antarctic Expedition. Sovetskaya antarkicheskaya ekspeditsiya, [1992,rus] 50-144
- Swedish Antarctic Research Programme, 1989/90: a cruise report. Reuterskiöld, M., [1992,eng] 50-1418
- Swedish building research in Antarctica. Swedish Council for Building Research, [1992,eng] 50-1419
- Symposium on Antarctic Logistics and Operations, 6th. Proceedings. Symposium on Antarctic Logistics and Operations, 6th, Rome, Italy, Aug. 29-31, 1994, [1994,eng] 50-4267
- Tests on the thermal behavior of steel in polar conditions (North Geographic Pole). Aguirre-Puente, J., et al. [1990,spa] 50-5528
- United States Antarctic Program. Roberts, C.A., et al. [1994,eng] 50-105
- Low temperature tests**
- Adsorption and desorption of water on single crystal MgO(100): the role of surface defects. Stürnman, M.J., et al. [1996,eng] 50-5937
- Aging and low-temperature cracking of asphalt concrete mixture. Kliever, J.E., et al. [1996,eng] 50-6426
- Aluminum anodes used in cold saline environments. Schrieber, C.F., [1996,eng] 50-5955
- Artifact peroxides produced during cryogenic sampling of ambient air. Staffelbach, T., et al. [1995,eng] 50-1187
- Bond between a reinforcement bar and concrete at low temperatures. Vandewalle, L., [1995,eng] 50-2687
- Corrosion control paints for steel pipeline supports in cold regions. Nakamura, Y., et al. [1996,eng] 50-6121
- Crystal structure of dichlorodifluoromethane. Pridmore, R.W., et al. [1996,eng] 50-4695
- Fatty acid adaptation in an antarctic bacterium—changes in primer utilization. Nichols, D.S., et al. [1996,eng] 50-4797
- Flowthrough rockfill embankments: behavior in subzero temperatures. Hansen, D., et al. [1995,eng] 50-1841
- Fuel additive impairment of diesel fuel low temperature properties. Létoffé, J.M., et al. [1995,eng] 50-4252
- Growth temperature preferences of fungal strains from Victoria Land, Antarctica. Zucconi, L., et al. [1996,eng] 50-4009
- Low carbon steels for pressure vessels subject to low temperatures. Haney, F., et al. [1996,eng] 50-5956
- Low temperature behaviour of CFRP prestressed concrete beams. Bryan, P.E., et al. [1996,eng] 50-5811
- Low temperature cracking and rutting in asphalt concrete pavements. Vinson, T.S., et al. [1996,eng] 50-6192
- Low temperature effects on saturated fibrous polymer composites. Starzhenevskaya, T.A., et al. [1996,eng] 50-4005
- Low-temperature and freeze-thaw durability of thick composites. Dutta, P.K., et al. [1996,eng] 50-5659
- Low-temperature environmental testing system design—Part 1. Lynde, P.G., et al. [1996,eng] 50-2457
- Lubrication greases for railroad car bearings at low temperatures. Lundberg, J., et al. [1996,eng] 50-6120
- Manufacture and installation of duplex stainless steel line pipe for arctic application. Noble, D.N., [1996,eng] 50-5957
- Measuring ocean parameters at extremes of temperature. Neal, G.W., et al. [1994,eng] 50-5180
- Mechanical behavior of 18 Ni 200 grade maraging steel at cryogenic temperatures. Wagner, J.A., [1986,eng] 50-4101
- Mechanical properties of materials at low temperatures. Wigley, D.A., [1968,eng] 50-6049
- Methanogenesis at low temperatures by microflora of tundra wetland soil. Kotsiurbenko, O.R., et al. [1996,eng] 50-5156
- Microscopic dynamics of glycerol in its crystalline and glassy states. Bermejo, F.J., et al. [1996,eng] 50-4418
- Phase transitions of ice confined in mesopores. Hansen, E.W., et al. [1996,eng] 50-4141
- Scanning electron microscopy of free water in frozen plant tissues. Yaklich, R.W., et al. [1996,eng] 50-5209
- Strength and toughness of fiber reinforced concrete at low temperatures. Banthia, N., et al. [1995,eng] 50-2685
- Structural isotope effect in water bilayers adsorbed on RU(001). Held, G., et al. [1995,eng] 50-871
- Structure of solid fluorine. Torrie, B.H., et al. [1996,eng] 50-4696
- Subzero temperature water behavior in nonionic microemulsions. p.I. Garti, N., et al. [1996,eng] 50-3409
- Survival and regeneration of dormant silver birch buds stored at super-low temperatures. Ryyänen, L., [1996,eng] 50-6745
- Thermal conductivity of normal and deuterated tetrahydrofuran clathrate hydrates. Andersson, O., et al. [1996,eng] 50-2719
- Thermodynamic stability of hydrates for ethane, ethylene, and carbon dioxide. Kvamme, B., et al. [1996,eng] 50-5019
- Tree leaf cell response to cold acclimation. Rajashekar, C.B., et al. [1996,eng] 50-6555
- Uniaxial compressive strength of frozen ground at low subzero temperatures. Ershov, E.D., et al. [1996,rus] 50-6828
- Western Conference, 1996. Controlling corrosion in northern latitudes. National Association of Corrosion Engineers (NACE) International, Houston, TX. Canadian Region, [1996,eng] 50-5945
- Lubricants**
- Cold region hydraulic oil applications. Uhrig, S.L., [1991,eng] 50-1758
- Lubrication greases for railroad car bearings at low temperatures. Lundberg, J., et al. [1996,eng] 50-6120
- Measurements of friction between snow and ski running surfaces. Part 2. Palosuo, E., et al. [1979,fin] 50-4025
- Luminescence**
- Age of pre-late-Wisconsin glacial-estuarine sedimentation, Bristol Bay, Alaska. Kaufman, D.S., et al. [1996,eng] 50-4586
- Chlorophyll fluorescence as spruce frost hardness indicator. Binder, W.D., et al. [1996,eng] 50-6519
- Chlorophyll fluorescence in the Laptev Sea. Anoshkin, A.F., et al. [1995,eng] 50-2083
- Cold acclimation of arctic grass photosynthetic apparatus. Koroleva, O.I.A., [1996,eng] 50-6755
- Fluorimetric assessment of bacteria after freeze-thawing. Puchkov, E.O., et al. [1995,eng] 50-5865
- Laser ablation of organic molecules from frozen matrices. Belov, M.E., et al. [1995,eng] 50-3720
- Late stage 5 glacio-isostatic sea in the St. Lawrence Valley, Canada and the United States. Occhietti, S., et al. [1996,eng] 50-4577
- Luminescence dating of the deglaciation in northern Sweden. Lundqvist, J., et al. [1995,eng] 50-515
- Natural chemiluminescence of the marine environment under conditions of polar day and night. Lapshin, A.I., [1991,rus] 50-1315
- O₃ and NO₂ fluxes over snow measured by eddy correlation. Stocker, D.W., et al. [1995,eng] 50-2151
- Proton dynamics of doped ice. Akiyama, T., et al. [1996,eng] 50-6726
- Relevance of thermoluminescence dating of Pleistocene loess to volcanic eruptive history. Berger, G.W., et al. [1995,eng] 50-2118
- Results of TL datings of Warta Glaciation deposits in the northern Silesian Lowlands. Olszak, I.J., et al. [1993,pol] 50-3665
- Some features of the Warta glacial deposits in central Poland. Klatkova, H., [1993,pol] 50-3658
- Thermoluminescence ages of loess and associated sediments in central Nebraska, USA. Pye, K., et al. [1995,eng] 50-2166
- Thermoluminescence dating of Alaskan Pleistocene tephra. Berger, G.W., et al. [1996,eng] 50-5188
- Ultratransparent antarctic ice as a supernova detector. Halzen, J., et al. [1996,eng] 50-6322
- Warta Glaciation deposits within the non-glaciated zone in the Polesie Lubelskie. Wojtanowicz, J., [1993,pol] 50-3666

Machinery

Machinery

- Chain dredges for working flooded placer deposits. Knysenko, N.S., [1992.rus] 50-806
- Cold region hydraulic oil applications. Ushrik, S.L., [1991.eng] 50-1758
- Device for applying an insulation cover on overhead power lines. Gonchar, M.I., et al., [1929.rus] 50-1919
- Device for loosening frozen ground before excavation. Mashev, V.A., et al., [1992.rus] 50-1942
- Device for snow retention. Khuzin, V.Kh., [1992.rus] 50-1927
- Device for strengthening ground using buried components. Ostukov, B.S., et al., [1992.rus] 50-2053
- Improving the working capacity of rock-tunneling machines in frozen placer deposits. Egorov, I.K., et al., [1992.rus] 50-810
- Machine for breaking up hard materials. Liubinskii, G.B., et al., [1992.rus] 50-1938
- Question of using highly durable steels in the metal construction of load bearing machines. Pustovoi, V.N., [1992.rus] 50-759
- System for recovery of oil from snow and ice surfaces. Aiken, L.B., [1995.eng] 50-3473
- Working element of a tool with lifting-percussion action. Glebov, V.D., et al., [1992.rus] 50-1915
- Working tool for snow clearing. Gavrilov, I.U.M., et al., [1992.rus] 50-1908

Magma

- Basic study on volcanic debris flows over snow slopes. Miura, A., et al., [1995.jp] 50-6736
- Cryovolcanism on the icy satellites. Kargel, J.S., [1994.eng] 50-1860
- Erix volcanic rocks and tectonic evolution. Yu, X.Y., et al., [1993.chi] 50-2364
- Genetic types of granitoids and their mineralization in northern Xinjiang. Wang, Z.G., et al., [1993.chi] 50-2359
- Geochemistry of volcanic ashes from Greenland Basin. Haase, K.M., et al., [1996.eng] 50-5267
- Geological evolution and diagenetic mineralization in Xinjiang. Tu, G.Z., [1993.chi] 50-2351
- Gold mineralization in western Junggar. Shen, Y.C., et al., [1993.chi] 50-2371
- Intracontinental subduction zones in the Tibetan Plateau and their magmatism. Deng, W.M., [1992.chi] 50-1499
- Jokulhlaup from Katla in 1918. Tómasson, H., [1996.eng] 50-6268
- Kulshan caldera: a Quaternary subglacial caldera in the North Cascades, Washington. Hildreth, W., [1996.eng] 50-6547
- Mafic intrusive body bearing Cu-Ni mineralization in Xinjiang. Yuan, Q.L., et al., [1993.chi] 50-2376
- Magmatic activities and its relation to tectonic setting and gold mineralization in western Junggar. Jin, C.W., et al., [1993.chi] 50-2360
- Metallogenic geology and geochemistry related to Erix volcanism. Liu, T.G., et al., [1993.chi] 50-2375
- Overlapping mineralization of Karatongki Cu-Ni deposit. Zhan, X.Z., [1993.chi] 50-2377
- Paleomagnetism of Icelandic lava piles. Kristjansson, L., et al., [1995.eng] 50-4948
- Pleistocene glaciation in northwestern British Columbia. Spooner, I.S., et al., [1995.eng] 50-4526
- Stratigraphy and palynology of boreal peat in French bogs. Juigné, E., et al., [1995.fre] 50-4879
- Tholeiitic-alkalic transition at subglacial volcanoes, Tuya region, British Columbia, Canada. Moore, J.G., et al., [1995.eng] 50-3012
- Trace element geochemistry of volcanic rocks along the Erix River. Mei, H.J., et al., [1993.chi] 50-2365
- West Antarctic ice sheet removal of subglacial volcanic artefacts. Behrendt, J.C., et al., [1995.eng] 50-2530

Magnetic anomalies

- Detecting layered ground ice using a high-precision ground-based magnetic survey. Manushkin, B.A., [1985.rus] 50-243
- Norwegian Pleistocene crustal metamorphism. Ohia, Y., et al., [1995.eng] 50-5535

Magnetic properties

- Atlantic Ocean sedimentary evidence for Pleistocene ice rafting. Robinson, S.G., et al., [1995.eng] 50-1110
- Comparative analytical techniques for glacial diamicton studies. Walden, J., et al., [1996.eng] 50-6537
- Electromagnetic wave attenuating and deicing structure. Webster, S.D., et al., [1991.eng] 50-2343
- Linking physical property records of Quaternary sediments to Heinrich events. Chi, J., et al., [1996.eng] 50-5221
- Magnetic analysis of glacial sediment weathering. Walden, J., et al., [1995.eng] 50-6562
- Paleoclimatic models of Chinese loess and paleosol sequences. Thompson, R., et al., [1995.eng] 50-2542
- Paleomagnetic age constraints on New Zealand glacial deposits. Fitzsimons, S.J., et al., [1996.eng] 50-6576
- Paleomagnetic changes within the Brunhes Epoch in the Basaharc loess profile, Hungary. Balogh, J., [1995.eng] 50-1051
- Pre-Illinoian glacial stratigraphy in north-central Missouri. Rovey, C.W., III, et al., [1996.eng] 50-4585
- Simulation of Quaternary loess deposit magnetic profiles. Anderson, R.S., et al., [1996.eng] 50-4584

Magnetic resonance

- Magnetic resonance imaging of gel phase transformations. Hong, J.S., et al., [1995.eng] 50-2739

See [also]: Nuclear magnetic resonance

Magnetic surveys

- Detecting layered ground ice using a high-precision ground-based magnetic survey. Manushkin, B.A., [1985.rus] 50-243

- Electrical and magnetic methods for gold exploration. Shi, K.F., et al., [1993.chi] 50-2387
- Paleomagnetic constraints on sedimentation rates in the eastern Arctic Ocean. Schneider, D.A., et al., [1996.eng] 50-6707
- Paleomagnetism of a glacial sequence, South Australia. Schmidt, P.W., et al., [1995.eng] 50-411
- Paleomagnetism of Icelandic lava piles. Kristjansson, L., et al., [1995.eng] 50-4948
- Some paleomagnetic study results in the Kuntzei Lake region of the Qaidam Basin. An, Z.S., [1986.chi] 50-1993

Magnetism

See [also]: Geomagnetism

Magnetometers

- Analysis of interference effects on surface-impedance mapping of glacier thickness. Thiel, D.V., et al., [1996.eng] 50-4889
- Determining the resolving ability of a method of reestablishing ionospheric currents. Kotikov, A.L., et al., [1991.rus] 50-1635
- Method of conducting observations with a digital component magnetometer at antarctic stations. Gizler, V.A., [1991.rus] 50-1636

Maintenance

- Development of a mobile garage/vehicle servicing facility. Halley scientific station. Smith, A.L., et al., [1994.eng] 50-4268
- Development of procedures for hot tap welding onto sour service pipelines. Felix, R.D., et al., [1991.eng] 50-1724
- Fishing with 1.5- and 1.75-in. coiled tubing at western Prudhoe Bay, Alaska. Mullin, M.A., et al., [1991.eng] 50-1699
- Freezeable wax plug for pipeline. [1992.eng] 50-4414
- Subsea pipe freeze first on East Brae. [1993.eng] 50-5441
- Underwater maintenance and inspection of CP systems (Cook Inlet, Alaska). Daley, J.C., et al., [1996.eng] 50-5502
- Workshop on Antarctic Air Transport Networks. Council of Managers of National Antarctic Programs, [1995.eng] 50-6270

See [also]: Road maintenance; Subgrade maintenance; Winter maintenance

Manuals

- Field guide to the Churchill region, Manitoba. Dredge, L.A., [1992.eng] 50-3910
- Handbook for field evaluation of the 600 ROWPU winterization kit. U.S. Army Cold Regions Research and Engineering Laboratory, [1990.eng] 50-6048
- Lessons from failures in metal-structure buildings and structures in the North: a manual. Kornilov, T.A., et al., [1995.rus] 50-5140
- Manual for highway winter anti-icing practices. Ketcham, S.A., et al., [1996.eng] 50-6060
- Manual of ice protection. Sipos, B., ed. [1973.hun] 50-443
- National Weather Service observing handbook, No.7. Surface observations. U.S. National Oceanic and Atmospheric Administration. National Weather Service. Office of Systems Operations. Observing Systems Branch, [1994.eng] 50-2452
- Naturalist's guide to the Arctic. Pielou, E.C., [1994.eng] 50-3804
- Observation guidelines and recording standards for weather, snowpack and avalanches. Canadian Avalanche Association, Revelstoke, British Columbia, [1995.eng] 50-852
- Project IV.1.2: "NSR-pilot" guide to navigation along the NSR. Mikhailichenko, V., et al., [1996.eng] 50-4457
- Unsurfaced road maintenance management. Eaton, R.E., et al., [1995.eng] 50-952

Manufacturing

- Development of ski manufacturing technology as seen in the patents. Shimada, T., [1995.jp] 50-3516
- Metal hydrolysis on a deeply cooled ice surface. Winter, H., et al., [1995.eng] 50-1102
- Natural resources of Inner Mongolia. Eer, D., ed., [1987.chi] 50-2290
- New laser plasma source for extreme-ultraviolet lithography. Jin, F., et al., [1995.eng] 50-3678
- Plating aluminum wheels against salt and sand. Graves, B.A., [1993.eng] 50-1070

Mapping

- Application of synthetic aperture radar (SAR) imagery on antarctic glaciology. Takahashi, A., et al., [1995.jp] 50-4553
- Arctic and Antarctic Research Center: support for research during 1994-1995. Whittier, R.H., et al., [1995.eng] 50-6502
- Avalanche mapping and related G.I.S. applications in the Catalan Pyrenees. Furdada, G., et al., [1995.eng] 50-1061
- Basic state of engineering geocryological zoning. Bobov, N.G., [1996.rus] 50-6362
- Cartography of the Northern Sea Route, 15th-19th centuries. Okhuizen, E., [1996.eng] 50-4484
- Conglomerate identification and mapping leads to development success in a mature Alaskan field. O'Sullivan, T.P., et al., [1991.eng] 50-1756
- Crustal structure of the Arctic Ocean. Gramberg, I.S., et al., [1992.eng] 50-3439
- Cryolithozone of Western Siberia (thermal condition, database and mapping). An, V.V., et al., [1996.rus] 50-6359
- Elaboration of a cadastre of avalanche paths in the Catalan Pyrenees. Mari, G., et al., [1995.eng] 50-4655
- Electrical sounding of the cryolithozone in the Arctic using transient processes. Nim, I.U.A., [1989.rus] 50-2303
- Evolving front of the Ross Ice Shelf. Keys, H.J.R., et al., [1994.eng] 50-2693
- Experiment in compiling a review map of anthropogenic degradation of the high-latitude areas of Russia. Serebrianni, L.R., et al., [1992.eng] 50-3434

Maps

- Forest damage mapping with multitemporal ERS-1 SAR data. Rauste, Y., [1994.eng] 50-3229
- Frozen ground landscapes of Yakutia: explanatory notes to a map. Fedorov, A.N., et al., [1989.rus] 50-5005
- Geochemical correlation between coarse and fine fractions of till in southern Finland. Tarvainen, T., [1995.eng] 50-2705
- Geologic and hydrogeologic mapping of Iceland with multisensor data. Münzer, U., et al., [1992.eng] 50-617
- Geological mapping of Svalbard tectonic fault zone. McCann, A.J., et al., [1996.eng] 50-4232
- Geostatistical analysis of waterflood recoveries from an Alaskan drillsite. Wolcott, D.S., et al., [1991.eng] 50-1757
- Glacial deposit geochemistry at a Manitoba mining site. Nielsen, E., et al., [1991.eng] 50-3911
- GPS geodetic activities in the 1994-95 antarctic campaign. Capra, A., et al., [1995.eng] 50-4393
- INACH expedition to Patriot Hills, Nov-Dec. 1995. Casassa, G., [1996.spa] 50-5802
- Indiana streamlines permitting and ice/snow removal. Pitman, R., [1996.eng] 50-3495
- Integrated approach to shoreline mapping for spill response planning. Owens, E.H., et al., [1996.eng] 50-5561
- Landscape damage by skiing at the Schausland in the Black Forest, Germany. Ries, J.B., [1996.eng] 50-4234
- Mapping of winter surface conditions at Camp Grayling, Michigan. Haugen, R.K., et al., [1992.eng] 50-738
- Mapping snow cover during the BOREAS winter experiment. Hall, D.K., et al., [1995.eng] 50-3105
- Mapping the territory of the Bovanenko gas condensate field. Sretitskaia, I.D., et al., [1996.rus] 50-6369
- Method of preparing a geocryological foundation for hydrogeological mapping. Lomovtseva, N.S., [1996.rus] 50-6365
- Methods for creating a monitor of dangerous natural phenomena using an electronic map. Bidenko, S.I., [1991.rus] 50-1290
- Modeling of powder snow avalanches: possibilities for use in regulatory zoning of natural hazards. Bouvet, P., et al., [1995.fre] 50-4652
- New approaches to numerical mapping of avalanches. Borrel, G., [1995.fre] 50-4675
- Numerical analysis of vegetation cover structure and anthropogenic characteristics of deposits. Grisan, O.E., et al., [1990.rus] 50-1616
- Permafrost and global warming: strategies of adaptation. Anisimov, O.A., et al., [1996.eng] 50-5057
- Permafrost distribution and climate change. Nelson, F.E., [1990.eng] 50-1665
- Questions in engineering-geological mapping of routes of linear structures. Demidiuk, L.M., et al., [1983.rus] 50-309
- Rapid calculation of direct radiation on sloping fields. Wang, J., et al., [1995.chi] 50-5629
- Reduction of weather effects in the calculation for sea-ice concentration with the DMSP SSM/I. Cavalieri, D.J., et al., [1995.eng] 50-1867
- Regional geocryology (current status, trends and prospects for development). Mel'nikov, E.S., [1996.rus] 50-6366
- Sliding rocks at the Racetrack, Death Valley: what makes them move. Reid, J.B., Jr., et al., [1995.eng] 50-1106
- Snow monitoring in the United Kingdom using NOAA AVHRR imagery. Lucas, R.M., et al., [1994.eng] 50-167
- Snowmelt modelling by combining air temperature and a distributed radiation index. Cazorzi, F., et al., [1996.eng] 50-5689
- Space in the service of the changing Earth: Remote sensing for environmental monitoring and resource management. Vol.2. European "International Space Year" Conference, Munich, Germany, 30 March-4 April 1992, [1992.eng] 50-616
- Special geocryological regionalization of the European north-east. Ivanova, T.F., et al., [1985.rus] 50-2400
- Stability of biogeocoenoses in the Far North. Mel'tser, L.I., [1990.rus] 50-1602
- Steering Group for the Global Digital Sea-ice Data Bank. Fourth session. Final report. Commission for Marine Meteorology, [1994.eng] 50-6075
- Study on the avalanche hazard in the central Spanish Pyrenees (Aragon region). Sáez Alagón, M.T., et al., [1995.fre] 50-4682
- Subaqueous cryolithology survey and mapping of the oceanic cryolithozone. Zhigarev, L.A., [1996.rus] 50-6363
- Surveying and mapping program of the United States in Antarctica. Mullen, R.R., et al., [1993.eng] 50-592
- Surveying work in Mount Xixia Bangma region. Zhou, J.Q., et al., [1982.chi] 50-6594
- Swedish Forest Information Atlas. Rosengren, M., et al., [1992.eng] 50-623
- Topographic controls on Norwegian Holocene glaciers fluctuations. Aa, A.R., [1996.eng] 50-4374
- Using satellite photography in geocryological studies in the cryolithozone. Gavrilov, A.V., et al., [1996.rus] 50-6857
- Vegetation cover of Québec-Labrador 6000 years BP: an essay. Richard, P.J.H., [1995.fre] 50-1457
- Wilderness quality mapping in the Euro-Arctic Barents region. Husby, E., et al., [1995.eng] 50-3171

See [also]: Infrared mapping; Sensor mapping; Soil mapping; Stereomapping

Maps

- Antarctic sea ice analysis, 1991-1992. Naval Polar Oceanography Center. Naval Ice Center, [1992.eng] 50-444
- Atlas of Arctic icebergs. Abramov, V., [1996.eng] 50-6320
- Cartography of the Northern Sea Route, 15th-19th centuries. Okhuizen, E., [1996.eng] 50-4484

Marginal ice zone

Marine biology

- Climatic atlas of Labrador Sea seasonal ice concentration. Wang, J., et al. [1991,eng] 50-5259
- Compilation of the map of seasonal frozen depth in Jilin Province at 1:2,000,000. Zhang, X., et al. [1989,chi] 50-1351
- Development of environmental database for the Russian Arctic. Kaitala, S., [1995,eng] 50-3178
- Experimental voyage through Northern Sea Route. Yamaguchi, H., [1996,eng] 50-4425
- Exploration for hydrocarbon deposits and engineering preparation of oil and gas provinces. Akhmetshin, A.A., et al. [1996,rus] 50-6371
- Frozen ground landscapes of Yakutia: explanatory notes to a map. Fedorov, A.N., et al. [1989,rus] 50-5005
- Geobotanical maps as an aid in assessing surface impacts. Everett, K.R., et al. [1994,eng] 50-304
- Glaciological zoning of the Earth. Tushinskii, G.K., et al. [1973,rus] 50-421
- Map of the annual river runoff in the Pamirs and Pamir-Alay. Kemmerikh, A.O. [1972,rus] 50-533
- Methods for creating a monitor of dangerous natural phenomena using an electronic map. Bidenko, S.I., [1991,rus] 50-1290
- Nordic permafrost—a bibliography. Akerman, H.J., [1993,eng] 50-5304
- Plan for a regional ecological atlas of the cryolithozone (in the example of Yakutia). Alekseev, V.R., et al. [1996,rus] 50-6842
- Potential ice ablation in the USSR. Khodakov, V.G., et al. [1972,rus] 50-522
- Project III.12.1: improve information on navigating the NSR. Baskin, A.T., [1996,eng] 50-4448
- Russian soil geography as indicated by a new detailed map. Andronikov, V.L., et al. [1995,eng] 50-3873
- Submarine topographical chart around Filchner-Ronne Ice Shelf. Vaughan, D.G., et al. [1995,eng] 50-5443
- Swedish Forest Information Atlas. Rosengren, M., et al. [1992,eng] 50-623
- Vegetation and climate of maritime Canada 6000 years BP: a synthesis. Jetté, H., et al. [1995,eng] 50-1458
- West coast Newfoundland oil spill sensitivity atlas. Dempsey, J., et al. [1995,eng] 50-1468
- See [also]: Geological maps; Meteorological charts; Topographic maps
- Marginal ice zone**
- See [also]: Ice edge
- Marine atmospheres**
- Age of carbon black atmospheric aerosols over Finland. Raunemaa, T., et al. [1996,eng] 50-5257
- Aircraft observations of ice formation over the Japan Sea. Asuma, Y., et al. [1995,eng] 50-6716
- Analysis of DDT, DDE and PCBs in the blood of *Pygoscelis* of Antarctica. Yang, H.F., et al. [1989,chi] 50-6776
- Antarctic macroalgae—sources of volatile halogenated organic compounds. Laturnus, F., et al. [1996,eng] 50-5594
- Arctic atmospheric aerosol number size distributions. Covert, D.S., et al. [1996,eng] 50-4315
- Arctic Ocean atmospheric boundary layer structure and flow. Nilsson, E.D., [1996,eng] 50-4314
- Arctic Ocean dimethyl sulfide seasonal variability. Leck, C., et al. [1996,eng] 50-4313
- Arctic oceanography: marginal ice zones and continental shelves. Smith, W.O., Jr., ed. et al. [1995,eng] 50-1159
- Arctic sea ice decreases related to wind variations. Maslanik, J.A., et al. [1996,eng] 50-6511
- Atmosphere-ocean interactions in the marginal ice zones of the Nordic seas. Guest, P.S., et al. [1995,eng] 50-1161
- Atmosphere-surface interactions over polar oceans and heterogeneous surfaces. Vihma, T., [1995,eng] 50-4035
- Atmospheric CO₂ variations at Spitsbergen. Engardt, M., et al. [1996,eng] 50-3723
- Behavior of mercury in seawater to the northwest of the Antarctic Peninsula. Ruan, Z., [1989,chi] 50-6774
- Buoys in the Arctic study heat exchange. Honjo, S.S., et al. [1996,eng] 50-6334
- Case analysis of antarctic strong cyclone process. Luo, Y.J., et al. [1989,chi] 50-6770
- Characteristics of Arctic Ocean climate based on COADS data, 1980-1993. Clark, M.P., et al. [1996,eng] 50-6545
- Climatic atlas of Labrador Sea seasonal ice concentration. Wang, J., et al. [1991,eng] 50-5259
- Cloud condensation nuclei over the Arctic Ocean in early spring. Hegg, D.A., et al. [1995,eng] 50-348
- Coupled ice-ocean-atmosphere model of the Bering Sea. Hedstrom, K.S., [1995,eng] 50-6310
- Deterioration in concrete bridges at the seashore in cold regions. Shoya, M., et al. [1992,eng] 50-2754
- Distribution and transport of atmospheric water vapour over the arctic basin. Serreze, M.C., et al. [1995,eng] 50-5217
- Downwelling radiation fluxes at the arctic surface based on parameterizations. Silcox, R.A., [1994,eng] 50-5303
- Dynamics of the Antarctic Circumpolar Current. Ivchenko, V.O., et al. [1996,eng] 50-5157
- Effect of ENSO and Eurasian snow cover on the Asian summer monsoon. Li, C.F., [1994,eng] 50-681
- Frost resistance of marine concrete in a cold environment. Ayuta, K., et al. [1995,eng] 50-2663
- GCM modeling of the stratospheric dynamics and its coupling with chemistry. Cariolle, D., et al. [1995,eng] 50-1773
- Global sea-ice—upper-ocean model: some preliminary results. Fichet, T., et al. [1993,eng] 50-4821
- Hemispheric climate relations revealed by bottom sediment/ice core correlations. Charles, C.D., et al. [1996,eng] 50-6632
- Highly elastic surface coating to protect structures exposed to coastal/marine environments. Swamy, R.N., et al. [1992,eng] 50-2753
- Ice forming nuclei in the high Arctic. Bigg, E.K., [1996,eng] 50-4317
- Ice-ocean seasonal cycle and climate response in Hudson Bay. Soucier, F.J., et al. [1995,eng] 50-5931
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1996,eng] 50-5161
- Interaction of arctic fogs with aerosols. Nilsson, E.D., et al. [1996,eng] 50-4318
- Interannual variability of sea-level pressure, sea-ice and runoff over the Arctic. Power, S.B., et al. [1991,eng] 50-5258
- Interdecadal climate variability in the subpolar North Atlantic. Wohlleben, T.M.H., et al. [1995,eng] 50-2743
- Ion-induced nucleation around radon daughters in remote arctic maritime air. Bigg, E.K., [1996,eng] 50-4322
- Large eddy simulation of the turbulent flow in a marine convective boundary layer with snow. Rao, G.S., et al. [1996,eng] 50-3683
- Major weather features at the Great Wall Station. Jiang, D.Z., et al. [1989,chi] 50-6768
- Modeling the summertime arctic cloudy boundary layer. Curry, J.A., et al. [1996,eng] 50-5275
- Modelling arctic climate change. Cattle, H., et al. [1995,eng] 50-5227
- North Pole. Headland, R.K., [1996,eng] 50-4994
- Numerical case study of a polar low in the Labrador Sea. Mailhot, J., et al. [1996,eng] 50-5869
- On the ice-ocean response to wind forcing. Omstedt, A., et al. [1996,eng] 50-6666
- Overview of the Arctic Ocean Expedition of 1991 (AOE-91). Leck, C., et al. [1996,eng] 50-4312
- Physical characteristics of arctic stratus clouds. Tsay, S.C., et al. [1984,eng] 50-4922
- Plate tectonics and climate change in the Cenozoic. Eldholm, O., et al. [1994,eng] 50-896
- Polar lows. Rasmussen, E.A., [1996,eng] 50-4997
- Preliminary analysis of the cyclone activity over the Antarctic Peninsula in summer. Wang, D.C., et al. [1989,chi] 50-6769
- Proceedings. China Symposium on Southern Ocean Expedition, 1st, Hangzhou, May, 1988. [1989,chi] 50-6763
- Radiative transfer in atmosphere-sea ice-ocean system. Jin, Z., et al. [1996,eng] 50-5276
- Role of air-sea heat flux in Newfoundland Shelf sea temperature variability. Umoh, J.U., et al. [1995,eng] 50-4209
- Scientific plan for a regional research programme in the Arctic on global change. International Arctic Science Committee (IASC), Oslo, Norway, [1994,eng] 50-1508
- Sea-air exchange of sulfur, phosphorus, and nitrogen in marine aerosols over the Antarctic Peninsula waters. Chen, L.Q., et al. [1989,chi] 50-6775
- Seasonal aerosol variability in the arctic marine boundary layer. Leck, C., et al. [1996,eng] 50-4320
- Seasonal cycle of C₂-C₃ hydrocarbons over the Baltic Sea and northern Finland. Laurila, T., et al. [1996,eng] 50-5607
- Small-scale physical processes in the Arctic Ocean. Padman, L., [1995,eng] 50-1162
- Source of summer arctic atmospheric aerosols. Maenhaut, W., et al. [1996,eng] 50-4321
- Sources and distribution of sulfate in the Pacific atmosphere. Chen, L.Q., et al. [1989,chi] 50-6786
- Sudden changes in arctic atmospheric aerosol concentrations during summer and autumn. Bigg, E.K., et al. [1996,eng] 50-4319
- Sulfide oxidation products in the antarctic atmosphere. Davison, B., et al. [1996,eng] 50-5615
- Transarctic acoustic propagation. Mikhalevsky, P.N., et al. [1995,eng] 50-6273
- Ultrafine aerosol presence in the arctic atmospheric boundary layer. Wiedensohler, A., et al. [1996,eng] 50-4316
- Variability in atmospheric circulation and moisture flux over the Arctic. Serreze, M.C., et al. [1995,eng] 50-5228
- Vegetation and climate of maritime Canada 6000 years BP: a synthesis. Jetté, H., et al. [1995,eng] 50-1458
- Warm core in a polar low observed with a satellite microwave sounding unit. Forsythe, J.M., et al. [1996,eng] 50-4186
- Wind forcing of marine primary production in the northern atmospheric low-pressure belt. Sakshaug, E., et al. [1995,eng] 50-4130
- Winter ice in Okhotsk Sea and spring and summer climate in north Japan. Yamada, Y., [1996,jpn] 50-5903
- Wintertime polar low over the eastern Weddell Sea. Heinemann, G., [1996,eng] 50-3708
- Marine biology**
- Abundance and production of bacteria and viruses in the Bering and Chukchi Seas. Steward, G.F., et al. [1996,eng] 50-4158
- Action of HPLC6 antifreeze polypeptide in solution. Brooke-Taylor, C.A., et al. [1996,eng] 50-5298
- Algae populating drifting sea ice in Antarctica. Ligowski, R., [1989,pol] 50-2928
- Analysis of DDT, DDE and PCBs in the blood of *Pygoscelis* of Antarctica. Yang, H.F., et al. [1989,chi] 50-6776
- Antarctic macroalgae—sources of volatile halogenated organic compounds. Laturnus, F., et al. [1996,eng] 50-5594
- Antarctic phytoplankton and DNA library from communities exposed to ultraviolet-B. Jovine, R.V.M., et al. [1994,eng] 50-4246
- Antarctic planktonic biomass seasonal variations. Skerratt, J.H., et al. [1995,eng] 50-1118
- Antifreeze glycopeptides and peptides in fish from the Weddell and Lazarev seas. Wohrmann, A.P.A., [1996,eng] 50-3959
- Arctic algal communities in the region of the Nuvuk Islands, northeastern Hudson Bay, Canada. Keats, D.W., et al. [1989,eng] 50-3692
- Arctic Centre news, 1993, No.2. [1993,eng] 50-3598
- Arctic kelp community in the Alaskan Beaufort Sea. Dunton, K.H., et al. [1982,eng] 50-3681
- Arctic marine mammals as integrators and indicators of mercury in the Arctic. Wagemann, R., et al. [1995,eng] 50-881
- Arctic Ocean dimethyl sulfide seasonal variability. Leck, C., et al. [1996,eng] 50-4313
- Arctic science, engineering, and education—directory of awards: fiscal year 1994. United States. National Science Foundation, [1994,eng] 50-1553
- Are arctic soft-sediment macrobenthic communities impoverished. Kendall, M.A., [1996,eng] 50-6720
- At the center of scientists' attention—problems of biology in northern seas. Matishov, G.G., [1995,rus] 50-4304
- Autumnal sea ice biota in polar seas. Hoshiaz, T., et al. [1996,eng] 50-6031
- Barents Sea biomass reaction to gas condensate pollution. Gorbacheva, E.A., et al. [1996,eng] 50-6581
- Basis for statistical inferences in coastal injury assessment of Exxon Valdez oil spill. McDonald, L.L., et al. [1995,eng] 50-3922
- Benthic studies in the Laptev Sea. Schmid, M.K., et al. [1995,eng] 50-2087
- Benthic-pelagic coupling in the Greenland-Norwegian Sea and its effect on the geological record. Graf, G., et al. [1995,eng] 50-747
- Biogenic hydrocarbons in particulate material of the Bellinghousen Sea marginal ice zone. Cripps, G.C., [1995,eng] 50-1025
- Biological CO₂ pump in seasonally ice-covered waters. Legendre, L., [1996,eng] 50-6033
- Biological processes on arctic continental shelves: ice-ocean-biotic interactions. Grebmeier, J.M., et al. [1995,eng] 50-1166
- Biology of high latitude kelp. Dunton, K.H., et al. [1995,eng] 50-4139
- Bottom biocoenoses of the Laptev Sea and adjacent areas. Sirenko, B.I., et al. [1995,eng] 50-2088
- Brittle star fauna biomass in the northeastern Barents Sea. Piepenburg, D., et al. [1996,eng] 50-6719
- Bromoform emission from ice algae and arctic ozone depletion. Buckley, P.T., [1993,eng] 50-700
- Carbon acquisition and growth of antarctic sea ice diatoms in closed bottle incubations. Gleitz, M., et al. [1996,eng] 50-5455
- Chemical and toxicological evaluation of water quality following the Exxon Valdez oil spill. Neff, J.M., et al. [1995,eng] 50-3917
- Chlorophyll fluorescence in the Laptev Sea. Anoshkin, A.F., et al. [1995,eng] 50-2083
- Chlorophyll in the western Bering Sea. Mordasova, N.V., [1995,eng] 50-3605
- Classification uncertainties within foraminifera species in McMurdo Sound, Antarctica. Bowser, S.S., et al. [1995,eng] 50-3345
- Climate change and biological oceanography of the Arctic Ocean. Gradinger, R., [1995,eng] 50-5233
- Comparative characteristics of polychaete taxocenes in Pevek Strait, Chum Bay, and Long Strait. Gagaev, S.I., [1995,eng] 50-2534
- Comparison of shoreline assessment study designs used for the Exxon Valdez oil spill. Gilfillan, E.S., et al. [1996,eng] 50-5554
- Composition and characteristics of the distribution of ichthyoplankton in the southwestern Barents Sea. Zalesskikh, L.M., [1991,rus] 50-1313
- Composition and distribution of summer zooplankton in the Laptev Sea. Kosobokova, K., et al. [1995,eng] 50-2085
- Contemporary status of bottom fauna in the Chernaya Bay (Novaya Zemlya Archipelago). Matishov, G.G., et al. [1996,eng] 50-4147
- Correlation of Cenozoic dinoflagellate and pollen records. Hubbard, R.N.L.B., et al. [1994,eng] 50-897
- Current water quality in Cook Inlet, Alaska. study. University of Alaska. Environment and Natural Resources Institute, [1995,eng] 50-4400
- Cyclopoida of the Bransfield Strait. Bielecka, L., [1993,eng] 50-2184
- Daily vertical migration of antarctic copepods beneath the ice. Tseitlin, V.B., et al. [1995,eng] 50-3607
- Dimethyl sulfide in the arctic atmosphere. Ferek, R.J., et al. [1995,eng] 50-2850
- Dinoflagellate cysts and climate change through the Neogene. Harland, R., [1994,eng] 50-899
- Dissolved organic matter in arctic sea ice. Thomas, D.N., et al. [1995,eng] 50-717
- Distribution and biomass of Greenland shelf epibenthic megafauna. Piepenburg, D., et al. [1996,eng] 50-5045
- Distribution of bacterioplankton in the Kara Sea in September 1993. Mitsukevich, I.N., et al. [1995,eng] 50-3537
- Distribution of pesticide residues in arctic coastal ecosystems. Bright, D.A., et al. [1995,eng] 50-4747
- Distribution of sea-ice algae in Hudson Bay. Monti, D., et al. [1996,eng] 50-5211
- Distribution of under-ice and ice phytoplankton in Lake Baykal. Zavoruev, V.V., et al. [1995,rus] 50-4106

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- DOC storage in arctic seas: the role of continental shelves. Walsh, J.J., [1995,eng] 50-1165
- Dynamic model of the pelagic ecosystem of the Kara Sea. Lebedeva, L.P., et al., [1995,eng] 50-3540
- Dynamics of the ecosystem of the Barents Sea. Matishov, G.G., et al., [1991,rus] 50-1295
- Ecological conditions in the Barents Sea (institutes and literature catalogue). Dronov, N., [1992,eng] 50-20
- Ecological investigations in the Bering Sea. Sapozhnikov, V.V., [1994,eng] 50-869
- Ecology and physiology of psychrophilic bacteria from antarctic saline lakes and sea-ice. Nichols, D.S., et al., [1995,eng] 50-4086
- Ecology of fjords and coastal waters. Skjoldal, H.R., ed., et al., [1995,eng] 50-4128
- Ecosystem dynamics of the Bering and Chukchi Seas. Tsyban', A.V., [1995,eng] 50-3608
- Ecosystem of the sea ice in Antarctica. Rakusa-Suszczewski, S., [1989,pol] 50-2875
- Effects of a diesel spillage at Macquarie I. Simpson, R.D., et al., [1995,eng] 50-3800
- Effects of dehydration and freezing stress on brown algae. Pearson, G.A., et al., [1995,eng] 50-1523
- Effects of pack ice on Weddell Sea plankton distribution. Kaufmann, R.S., et al., [1995,eng] 50-4160
- Effects of the Exxon Valdez oil spill on subtidal sediments in bays. Page, D.S., et al., [1996,eng] 50-5563
- Environment and ecosystems of Novaya Zemlya; the archipelago and shelf. Matishov, G.G., ed., [1995,rus] 50-5145
- Environmental effects of the Antonio Gramsci oil spill in 1987. Hirvi, J.P., [1990,eng] 50-469
- Environmental factors influencing the biodegradation of petroleum hydrocarbons in cold seawater. Siron, R., et al., [1995,eng] 50-651
- Environmental impact of offshore oil exploration in the Arctic. Mosbech, A., et al., [1995,eng] 50-2964
- Estimating the mean annual primary production and outflow of organic carbon in Antarctica. Tseitlin, V.B., [1995,rus] 50-6321
- Estimation of the autochthonous detritus flux through plankton communities of the Kara Sea. Lebedeva, L.P., et al., [1995,eng] 50-3541
- Evolution of the ecosystem and biogeography of seas in the European Arctic. Pavlov, D.S., ed., [1994,rus] 50-3088
- Expedition ANTARKTIS-XI/3 of *Polarstern* in 1994. Miller, H., ed., et al., [1996,ger] 50-4325
- Expedition ARKTIS X/1 of the research vessel *Polarstern* in 1994. Fahrbach, E., ed., [1995,ger] 50-3157
- Expedition of the Murmansk Marine Biology Institute to Franz Josef Land and Novaya Zemlya, 1991. Matishov, G.G., [1992,rus] 50-730
- Fall phytoplankton biomass. P-I relationships and primary production in the Weddell Sea. Dower, K.M., et al., [1996,eng] 50-4008
- Fatty acid adaptation in an antarctic bacterium—changes in primer utilization. Nichols, D.S., et al., [1996,eng] 50-4797
- Fingerprinting hydrocarbons in the biological resources of the Exxon Valdez spill area. Bence, A.E., et al., [1995,eng] 50-3916
- Fish antifreeze protein inhibition of liposome leakage. Hays, L.M., et al., [1996,eng] 50-6220
- Fluxes of nutrients between benthic and planktonic communities in the coastal zone of the Barents Sea. Kuznetsov, L.L., et al., [1995,eng] 50-3606
- Foraminiferal bottom sediment assemblages from West Antarctica. Chang, S.K., et al., [1995,eng] 50-3346
- Foraminifera in glaciomarine sediments of arctic fjords. Korsun, S.A., et al., [1995,eng] 50-939
- Fossilization potential of arctic fjord and continental shelf benthic macrofaunas. Aitken, A.E., [1990,eng] 50-923
- Freezing driven upwelling in antarctic sea ice biological systems. Ackley, S.F., et al., [1996,eng] 50-6032
- Fresh water in Svalbard fjord ecosystems. Węskowski, J.M., et al., [1995,eng] 50-4137
- Freshwater impact on Hudson bay ecosystems under sea ice, pt.2. Legendre, L., et al., [1996,eng] 50-4020
- Freshwater impact on Hudson bay ecosystems under sea ice, pt.3. Fortier, L., et al., [1996,eng] 50-4021
- Freshwater net zooplankton of Spitsbergen. Terek, J., et al., [1989,eng] 50-2926
- Global environmental change: the northern North Atlantic. Schäfer, P., et al., [1995,eng] 50-745
- Ground-line sedimentation at the Mackay Glacier Tongue. Dawber, M., et al., [1994,eng] 50-1897
- High resolution study of the platelet ice ecosystem in McMurdo Sound. Arrigo, K.R., et al., [1995,eng] 50-2522
- Hot ice could contaminate fish. Edwards, R., [1996,eng] 50-4205
- Hydrobiological observations in the Chaunskaya Bay of the East Siberian Sea. Gaev, S.I., [1991,rus] 50-1314
- Hydrobiological research in the Lena polynya. Gukov, A.I., [1995,eng] 50-2089
- Impact of iceberg scouring on polar benthic habitats. Gutt, J., et al., [1996,eng] 50-6567
- Influence of ocean dredging on Barents Sea biota. Matishov, G.G., et al., [1995,eng] 50-3062
- Inorganic carbon uptake by an antarctic sea-ice diatom, *Nitzschia frigida*. Mitchell, C., et al., [1996,eng] 50-3404
- Inter-annual variability in marine coastal antarctic bacterioplankton. Delille, D., et al., [1996,eng] 50-4006
- Isotope analysis of Arctic Ocean ice algae primary productivity. Hobson, K.A., et al., [1995,eng] 50-3359
- Krill and sea ice cover. Kawaguchi, S., et al., [1994,eng] 50-859
- Krill biomass variations in West Antarctica, 1981-1989. Godlewska, M., [1993,eng] 50-2186
- Laptev Sea organic carbon surface sediments. Stein, R., et al., [1995,eng] 50-2097
- Laptev Sea System: Expeditions in 1994. Kassens, H., ed., [1995,eng] 50-3156
- Late Eocene-Oligocene dinoflagellate provincialism in the North Atlantic Ocean. Damassa, S.P., et al., [1994,eng] 50-898
- Late Quaternary foraminiferal stratigraphy from western Svalbard. Lycke, A.K., et al., [1992,eng] 50-2557
- Latest Quaternary foraminifera and sediment transport in Perovskits Canyon, Bering Sea. Starrett, S.W., [1995,eng] 50-3347
- Latitude as a factor in the calculation of primary production. Platt, T., et al., [1995,eng] 50-4129
- Life cycle of *Paralabidocera antarctica* at Showa Station. Tanimura, A., et al., [1996,eng] 50-6414
- Life forms in antarctic sea ice. Dahms, H.U., [1992,ger] 50-646
- Log of the Scotia Expedition, 1902-4. Bruce, W.S., [1992,eng] 50-3578
- Marine bacterioplankton and sea ice bacterial seasonal changes. Delille, D., et al., [1996,eng] 50-3869
- Marine ecology of the Laguna San Rafael (southern Chile): ice scour and opportunism. Davenport, J., [1995,eng] 50-1105
- Marine snow in antarctic coastal waters. Marchant, H.J., et al., [1996,eng] 50-6034
- Mathematical model of pollution vectors in the arctic basin. Krapivin, V.F., et al., [1996,eng] 50-3412
- Megabenthic communities in the waters around Svalbard. Piepenburg, D., et al., [1996,eng] 50-6722
- Mesoplankton in the east Kara Sea and the Ob and Yenisey River estuaries. Vinogradov, M.E., et al., [1995,eng] 50-3539
- Mesoplankton of the west Kara Sea and the Baidara Bay. Vinogradov, M.E., et al., [1995,eng] 50-3538
- Metabolism of deep-sea sponges in the Greenland-Norwegian Sea. Witte, U., et al., [1996,eng] 50-6613
- Microbial sea ice ecology at a coastal antarctic site. Archer, S.D., et al., [1996,eng] 50-5456
- Microorganisms sustaining large animals in seasonally ice-covered seas. Legendre, L., [1996,eng] 50-5907
- Microplankton bloom dynamics in McMurdo Sound, Antarctica. Stoeker, D.K., et al., [1993,eng] 50-3394
- Modeling the heating and melting of sea ice through light absorption by microalgae. Zeebe, R.E., et al., [1996,eng] 50-2844
- Mollusc population dynamics on the antarctic shelf ocean bottom. Brey, T., et al., [1993,eng] 50-3395
- Morphology and biochemistry of frozen spermatozoa of male minke whales. Fukui, Y., et al., [1996,eng] 50-4613
- Morphology and morphogenesis of a new species of protozoa in sea ice. Petz, W., [1994,eng] 50-2584
- Morphometry of bacterioplankton cells in the Barents Sea. Baizov, V.A., et al., [1995,rus] 50-4203
- Neoglobodactylus pachyderma* distribution in the sea ice of Lützow-Holm Bay. Igarashi, A., et al., [1996,eng] 50-6036
- New radiochemical procedures for environmental actinide measurements and data quality control. Testa, C., et al., [1995,eng] 50-2344
- Nutrient cycle in the Bransfield Strait. Wang, Y.H., et al., [1989,chi] 50-6773
- Occurrence of an algal bloom under arctic pack ice. Gradinger, R., [1996,eng] 50-4159
- Occurrence of net phytoplankton between Elephant I. and the southern passages. Koczyńska, E.E., et al., [1989,pol] 50-2927
- Occurrence of sub-ice algal aggregations off northeast Greenland. Gutt, J., [1995,eng] 50-163
- Oceanographic conditions of Murman coastal biocoenoses. Boitsov, V.D., et al., [1995,eng] 50-4138
- Oil pollution in Arctic waters. Fussaeter, G., et al., [1991,eng] 50-3421
- On the summer distribution of mesozooplankton in the Nansen Basin. Arctic Ocean. Mumm, N., [1991,ger] 50-3399
- Organic carbon of the Arctic Ocean. Wheeler, P.A., et al., [1996,eng] 50-4212
- Organochlorines in the arctic ecosystem. Jensen, J., [1991,eng] 50-3422
- Paleoclimate from diatom distribution in a marine core. Zhan, Y.F., [1989,chi] 50-6780
- Paleoclimatic significance of a new Arctic Ocean foraminiferal fauna. Mullen, M.W., et al., [1995,eng] 50-3349
- Paleoclimatology of Kamchatka from Cenozoic plant and foraminifera fossils. Fortanova, L.I., et al., [1994,eng] 50-900
- Palmer ecological research program. Smith, R.C., et al., [1995,eng] 50-5944
- Particulate organic matter in Terra Nova Bay in summer 1990. Fabiano, M., et al., [1996,eng] 50-3702
- Peculiarities of diatom thanacones formation in the sediments of the Eurasian arctic seas. Poliakova, E.I., [1995,eng] 50-2536
- Pelagic bryozoan from Antarctica. Peck, L.S., et al., [1995,eng] 50-1827
- Pelagic processes in the Norwegian and Greenland Seas. von Bodungen, B., et al., [1995,eng] 50-7446
- Phytoplankton biomass and taxonomy around Elephant I. Villafañe, V.E., et al., [1995,eng] 50-1826
- Phytoplankton seasonal bloom shift in Barents Sea ice. Strass, V.H., et al., [1996,eng] 50-6721
- Plankton age variations in the Cooperation Sea. Budnichenko, E.V., [1994,eng] 50-868
- Plankton biomass in the Arctic Ocean. Timofeev, S.F., [1995,eng] 50-2086
- Plankton biomass variations in the Bering Sea. Tseitlin, V.B., et al., [1994,eng] 50-867
- Plankton blooms as evidence of Holocene climatic fluctuations. Thorsen, T.A., et al., [1995,eng] 50-2860
- Plankton dynamics in the Barents Sea marginal ice zone. Hansen, B., et al., [1996,eng] 50-3528
- Plankton ecosystems in the Norwegian and Greenland Sea. Samdøen, C., et al., [1995,eng] 50-749
- Planktonic communities of melt ponds on the McMurdo Ice Shelf, Antarctica. James, M.R., et al., [1995,eng] 50-1282
- Pleistocene foraminifera in Arctic Ocean piston cores. Evans, J.R., et al., [1995,eng] 50-3348
- Primary production and chlorophyll in the Kara Sea in September 1993. Vederikov, V.I., et al., [1995,eng] 50-3536
- Primary productivity and microbial variations in the Chukchi Sea. Cota, G.F., et al., [1996,eng] 50-5457
- Prince William Sound intertidal biota—good news and bad news five years later. Houghton, J.P., et al., [1995,eng] 50-5730
- Problems in the ecology of polar regions, vol.2; collected scientific papers. Bogoslovskaya, L.S., ed., [1991,rus] 50-1288
- Proceedings of the NIPR Symposium on Polar Biology, No.9. Hirasawa, T., ed. NIPR Symposium on Polar Biology, 17th. Tokyo, Dec. 7-9, 1994. [1996,eng] 50-6029
- Proceedings. China Symposium on Southern Ocean Expedition, 1st. Hangzhou, May, 1988. [1989,chi] 50-6763
- Radiocarbon dated common mussels *Mytilus edulis* from eastern Svalbard. Hjort, C., et al., [1995,eng] 50-4719
- Radiolaria biostratigraphy of core S₁₁ in the area northwest of Antarctic Peninsula. Chen, W.B., [1989,chi] 50-6779
- Recruitment and variability in antarctic krill. Siegel, V., et al., [1995,eng] 50-164
- Relation between distribution of phytoplankton and sea water stability. Su, Y.F., [1989,chi] 50-6767
- Release of volatile halogenated organic compounds by unialgal cultures of polar macroalgae. Laturnus, F., [1995,eng] 50-1202
- Report on the Czechoslovak biological diving expedition "Arctic 92". Duvňák, Z., [1993,eng] 50-2217
- Russian oceanographic expedition in the Kara Sea. Lisitsyn, A.P., et al., [1995,eng] 50-3530
- Salinity tolerance of planktonic foraminifera in sea ice. Spindler, M., [1996,eng] 50-6035
- Satellite tracking of high-arctic northern fulmars. Falk, K., et al., [1995,eng] 50-718
- SCAR report No.10. Dec. 1994. Scientific Committee on Antarctic Research. [1994,eng] 50-4041
- Sea ice variation at the South Orkney Is. Murphy, E.J., et al., [1995,eng] 50-972
- Seasonal variations in antarctic sea ice brine chemistry. Gleitz, M., et al., [1995,eng] 50-1117
- Shoreline ecology program following the Exxon Valdez oil spill, pt.3. Gilfillan, S.E., et al., [1995,eng] 50-3925
- Solid phase sedimentation in the Barents Sea. Hulth, S., et al., [1996,eng] 50-6723
- Spring-bloom time-series at the Bering Sea ice edge pt.1. Niebauer, H.J., et al., [1995,eng] 50-1031
- State of high Arctic shallow ecosystems in Franz Josef Land. Averintsev, V.G., [1991,rus] 50-1296
- Status of a Weddell Sea foraminifer. Berberich, D., [1996,ger] 50-3867
- Study of antarctic pack ice. Stevens, J.E., [1995,eng] 50-5154
- Study of Bering Sea primary productivity. Sapozhnikov, V.V., et al., [1995,eng] 50-6687
- Summer plankton beneath the McMurdo Ice Shelf at White I. Knox, G.A., et al., [1996,eng] 50-3403
- Svalbard—field excursion in arctic marine biology, June 5-14, 1995. Weissenberger, J., ed., et al., [1995,eng] 50-1554
- Symposium on Environmental Toxicology and Risk Assessment, 3rd. Atlanta, GA, Apr. 26-28, 1993. Exxon Valdez oil spill: fate and effects in Alaska waters. [1995,eng] 50-3914
- Taxonomic notes on recent benthic Foraminifera from Nansen Basin, Arctic Ocean. Wollenburg, J., [1992,ger] 50-3334
- Taxonomy and ecology of the ciliate fauna of the Weddell Sea. Petz, W., et al., [1995,eng] 50-2582
- Trophic structure of the benthos of the Lena polynya. Gukov, A.I., [1995,eng] 50-2090
- Ultraviolet inhibition of carbon fixation in phytoplankton. Boucher, N., et al., [1994,eng] 50-4245
- Ultraviolet radiation effects on phytoplankton during ozone depletion. Villafañe, V.E., et al., [1994,eng] 50-4243
- Use of mussels to assess bioavailability of hydrocarbons from the Exxon Valdez oil spill. Shigenaka, G., et al., [1995,eng] 50-3920
- UV radiation effects on aquatic organisms. Holm-Hansen, O., et al., [1993,eng] 50-1325
- Variability in nutrient concentrations around Elephant Island, Antarctica, during 1991-1993. Silva S., N., et al., [1995,eng] 50-941
- Variables of cryopreservation of marine microalgae. Caffavate, J.P., et al., [1995,eng] 50-4327
- Vertical light attenuation by phytoplankton absorption in the Greenland Sea. Dalkjær, R., et al., [1995,eng] 50-4131
- Vertical particle flux on the shelf off northern Spitsbergen, Norway. Andreassen, I., et al., [1996,eng] 50-6566

Marine deposits

Marine deposits

- Weddell-1 ice drift station in Antarctica. Mel'nikov, I.A., [1995,eng] 50-6689
- Wind forcing of marine primary production in the northern atmospheric low-pressure belt. Sakshaug, E., et al. [1995,eng] 50-4130
- Winter investigations in the Ross, Amundsen and Belling-shausen seas, 1993-1995. Jaña Obregón, R., et al. [1995,spa] 50-2583
- XVI Polar Symposium: Achievements and Prospects of Polish Polar Research, Toruń, Sep. 19-20, 1989. Polar Symposium, 16th, Toruń, Poland, Sep. 19-20, 1989, [1989,pol] 50-2870
- Zooplankton of the Laptev Sea coastal waters. Petriashov, V.V., et al. [1995,eng] 50-2084
- Marine deposits**
- Age of pre-late-Wisconsin glacial-estuarine sedimentation, Bristol Bay, Alaska. Kaufman, D.S., et al. [1996,eng] 50-4586
- Analysis of periodic variations in paleoclimatic indicators. Bolton, E.W., et al. [1995,eng] 50-1216
- Barents Sea ice sheet retreat. Forman, S.L., et al. [1996,eng] 50-5585
- Beardmore Glacier glacialigenic succession, Transantarctic Mountains. Webb, P.N., et al. [1996,eng] 50-6630
- Benthic foraminiferal assemblages and sea ice drift in the Arctic Ocean. Wollenburg, J., [1995,ger] 50-2443
- Benthic-pelagic coupling in the Greenland-Norwegian Sea and its effect on the geological record. Graf, G., et al. [1995,eng] 50-747
- Buried loess in the Bohai Sea bottom and exposed along the coast. Liu, J.P., et al. [1995,chi] 50-4125
- Carboniferous siliceous rock and its relation to metallic sulfide deposits in northern Xinjiang. Yang, W.H., et al. [1993,chi] 50-2358
- Cenozoic deposition in the Nansen Basin, Barents Sea. Vågnes, E., [1996,eng] 50-5313
- Cenozoic deposition on the Svalbard continental shelf. Solheim, A., et al. [1996,eng] 50-5312
- Cenozoic erosion and sediment yield in the drainage area of the Storfjorden Fan. Hjelstuen, B.O., et al. [1996,eng] 50-5310
- Cenozoic Northern Hemisphere glaciations. Thiede, J., et al. [1995,eng] 50-5240
- Cenozoic uplift of Fennoscandia inferred from a study of the mid-Norwegian margin. Stuevold, L.M., et al. [1996,eng] 50-5324
- Changes in North Atlantic deep-water formation associated with the Heinrich events. Maslin, M.A., [1995,eng] 50-638
- Characteristics of cryolithogenesis on the arctic shelf. Romanovskii, N.N., et al. [1990,rus] 50-1660
- Chronology of late Wisconsin ice retreat from the western Ross Sea, Antarctica. Licht, K.J., et al. [1996,eng] 50-3814
- Clastic sediment features in the sea area adjacent to the South Shetland Islands. Feng, Y.J., et al. [1989,chi] 50-6783
- Clay minerals as sediment source indicators. Russian Arctic. Naidu, A.S., et al. [1995,eng] 50-1120
- Climatic implications of ostracode deposits in Greenland Quaternary sediments. Brouwers, E.M., et al. [1991,eng] 50-2564
- Coastal Greenland Holocene sea level changes. Rasch, M., et al. [1995,eng] 50-5533
- Comment on paper by Baumann et al. Forsström, L., et al. [1996,eng] 50-6709
- Comment on paper by Blanchon et al. Clark, P.U., et al. [1995,eng] 50-1101
- Comparing simulated glacial climate and paleodata: a reexamination. Broccoli, A.J., et al. [1996,eng] 50-4398
- Conditions of the occurrence and structure of layered deposits of ground ice. Koreisha, M.M., et al. [1983,rus] 50-313
- Correlation of Cenozoic dinoflagellate and pollen records. Hubbard, R.N.L.B., et al. [1994,eng] 50-897
- Cretaceous and Tertiary deposits in southern Xizang. Zhou, Z.C., et al. [1992,chi] 50-1502
- Cretaceous/Tertiary marine stratigraphy and petroleum potential, Tarim Basin. Tang, T.F., et al. [1989,chi] 50-1847
- Deposition of organic matter in the Norwegian-Greenland Sea during the past 2.7 million years. Wagner, T., et al. [1995,eng] 50-2016
- Depositional environment of the Laptev Sea shelf. Nürnberg, D., et al. [1995,eng] 50-940
- Diagnostics of glacial and glacial-marine deposits and relief forms in Spitsbergen. Luchinskaya, T.N., et al. [1972,rus] 50-545
- Dinoflagellate cysts and climate change through the Neogene. Harland, R., [1994,eng] 50-899
- Distribution of cesium-137 in Bering and Chukchi Sea marine sediments. Cooper, L.W., et al. [1995,eng] 50-5062
- Division and duration of ice age dating from global comparisons. Brunnacker, K., [1990,ger] 50-1784
- Early Holocene moraine bank sedimentology of East Greenland. Huddart, D., et al. [1990,eng] 50-929
- Early Weichselian interstadial land biotas at Thule, northwest Greenland. Bennike, O., et al. [1992,eng] 50-2553
- Eastern Canadian Arctic at ca. 6 ka BP: a time of transition. Williams, K.M., et al. [1995,eng] 50-1450
- Eemian interglacial and its termination. Dansgaard, W., et al. [1981,eng] 50-3622
- Effect of diagenesis on the cryogenic structure of marine and lacustrine deposits. Khimenkov, A.N., et al. [1985,rus] 50-245
- Effects of moraine-bank sediment budgets on valley glacier stability. Hunter, L.E., et al. [1996,eng] 50-6263
- Enhanced dating procedures for arctic Quaternary marine deposits. Goodfriend, G.A., et al. [1996,eng] 50-4580
- Eolian dust in deep sea sediments from arctic pack ice. Pfirman, S., et al. [1989,eng] 50-5408
- Evidence for Holocene seismic triggering of Arctic Ocean turbidities. Grantz, A., et al. [1996,eng] 50-6223
- Evidence of Pleistocene drainage of a Scandinavian ice lake. Bergsten, H., et al. [1992,eng] 50-2555
- Evolution and age of shorelines along Woodford, northern Spitsbergen. Brückner, H., et al. [1994,eng] 50-1582
- Expanded record of Quaternary oceanographic change: Amerasian Arctic Ocean. Ishman, S.E., et al. [1996,eng] 50-3388
- Final stages in Laurentide ice sheet collapse, Hudson Strait. Andrews, J.T., et al. [1995,eng] 50-6556
- Flux and preservation of organic carbon in Baffin Island fjords. Syvitski, J.P.M., et al. [1990,eng] 50-924
- Foraminiferal evidence for Greenland environmental change. Jennings, A.E., et al. [1995,eng] 50-6079
- Foraminiferal evidence of Younger Dryas age cooling on the British Columbia shelf. Paterson, R.T., et al. [1995,eng] 50-5039
- Formaminera in glaciomarine sediments of arctic fjords. Korsun, S.A., et al. [1995,eng] 50-939
- Fossilization potential of arctic fjord and continental shelf benthic macrofaunas. Aitken, A.E., [1990,eng] 50-923
- Geochemical criterion for recognition of Pleistocene ice rafting events. Thomson, J., et al. [1995,eng] 50-1250
- Geochemistry of volcanic ashes from Greenland Basin. Haase, K.M., et al. [1996,eng] 50-5267
- Glacially-influenced sedimentation on the Hebridean slope. Stoker, M.S., [1990,eng] 50-933
- Glacially-influenced Yakutaga Formation on Middleton I. Eyles, C.H., et al. [1990,eng] 50-934
- Glacier fluctuations and sediment yields in Glacier Bay. Cai, J.K., et al. [1995,eng] 50-3733
- Glacier-fed delta at a Barents Sea fjord. Laberg, J.S., et al. [1996,eng] 50-5921
- Glaciomarine deposits in southwestern Sweden. Stevens, R.L., [1990,eng] 50-930
- Glaciomarine sediments from the Celtic Sea. Scourse, J.D., et al. [1990,eng] 50-932
- Global environmental change: the northern North Atlantic. Schäfer, P., et al. [1995,eng] 50-745
- Gulf of Alaska paleoclimatological influence on marine ecology. Lago, M.B., et al. [1996,eng] 50-6625
- Gulf of Mexico meltwater influx during Laurentide deglaciation. Marchitto, T.M., et al. [1995,eng] 50-340
- Hemispheric climate relations revealed by bottom sediment/ice core correlations. Charles, C.D., et al. [1996,eng] 50-6632
- Holocene shoreline displacement in southernmost Spitsbergen. Ziaja, W., et al. [1995,eng] 50-5537
- Ice drift reconstructions from ice rafted coal fragments. Bischof, J., et al. [1990,eng] 50-926
- Ice rafting sources for Younger Dryas detrital carbonate in the North Atlantic. Andrews, J.T., et al. [1995,eng] 50-1564
- Ice-proximal sediment dynamics in Glacier Bay. Hunter, L.E., et al. [1995,eng] 50-3735
- Identification of the Holocene-Pleistocene boundary in the Bering Sea by diatoms. Baldauf, J.G., [1982,eng] 50-3382
- Inverse relation between ice extent and the late Pleistocene glacial record of Gondwana. González-Bonorio, G., et al. [1995,eng] 50-1807
- Isotope analysis of Bering Sea Pleistocene sediment variations. Nakatsuka, T., et al. [1995,eng] 50-3002
- Last deglaciation of the Franz Victoria Trough, northern Barents Sea. Lubinski, D.J., et al. [1996,eng] 50-6535
- Last glaciation in central Magellan Strait, southernmost Chile. Clapperton, C.M., et al. [1995,eng] 50-964
- Late Eocene-Oligocene dinoflagellate provincialism in the North Atlantic Ocean. Damassa, S.P., et al. [1994,eng] 50-898
- Late glacial raised beaches and glacier recession in northeast Iceland. Norddahl, H., et al. [1993,eng] 50-4772
- Late Pleistocene sea level fluctuations and marine terraces. Radtke, U., [1990,ger] 50-1795
- Late Quaternary environmental history of Bátorliget, N.E. Hungary. Willis, K.J., et al. [1995,eng] 50-2165
- Late Quaternary flux of eolian dust to the pelagic ocean. Rea, D.K., et al. [1994,eng] 50-1242
- Late Quaternary foraminiferal stratigraphy from western Svalbard. Lycke, A.K., et al. [1992,eng] 50-2557
- Late Quaternary glacial and environmental history of Kongsøya, Svalbard. Ingólfsson, O., et al. [1995,eng] 50-4713
- Late Quaternary paleoceanography of the Eurasian Basin, Arctic Ocean. Cronin, T.M., et al. [1994,eng] 50-658
- Late Quaternary paleoceanography of the mid- to outer continental shelf, East Greenland. Williams, K.M., et al. [1995,eng] 50-2810
- Late Quaternary stratigraphy and glaciology in the Thule area, Northwest Greenland. Funder, S., ed. [1990,eng] 50-5169
- Late Quaternary subaqueous outwash deposits near Ottawa, Canada. Rust, B.R., et al. [1975,eng] 50-4813
- Late stage 5 glacio-isostatic sea in the St. Lawrence Valley, Canada and the United States. Occhietti, S., et al. [1996,eng] 50-4577
- Late Weichselian to early Holocene sedimentation in eastern Svalbard. Möller, P., et al. [1995,eng] 50-4716
- Late Younger Dryas to Holocene paleoenvironments of the southern Kattegat, Scandinavia. Conradsen, K., [1995,eng] 50-2861
- Linking physical property records of Quaternary sediments to Heinrich events. Chi, J., et al. [1996,eng] 50-5221
- Low probability of east Antarctica Pliocene deglaciation. Warnke, D.A., et al. [1996,eng] 50-6628
- Marine and glacial Quaternary deposits of the southern Sørkapp Land, Spitsbergen. Wójcik, A., et al. [1993,eng] 50-2215
- Marine clay deposits in ice water around the South Shetlands. Zhou, F.G., et al. [1989,chi] 50-6781
- Marine glacial deposition around the South Shetland Islands. Huang, H.Y., et al. [1989,chi] 50-6784
- Marine record of deglaciation from the continental margin off Nova Scotia. Keigwin, L.D., et al. [1995,eng] 50-3001
- Mass movements in glaciomarine sediments on the Barents Sea continental slope. Kuvaas, B., [1996,eng] 50-5321
- Modern glaciomarine environments. Powell, R.D., et al. [1995,eng] 50-3594
- Moraine bank facies in Ireland. McCabe, A.M., et al. [1995,eng] 50-921
- New development in the study on Carboniferous biostratigraphy in northern Xinjiang. Liao, Z.T., et al. [1993,chi] 50-2356
- No evidence for extreme long term warming in early Pliocene sediments of the Southern Ocean. Burckle, L.H., et al. [1996,eng] 50-6627
- North Sea lithostratigraphy related to glacial isostasy. Ekman, S.R.R., [1995,eng] 50-6560
- North Sea lithostratigraphy related to glacial isostasy. Ekman, S.R.R., [1995,eng] 50-6560
- North Sea paleoenvironments during the last deglaciation. Knudsen, K.L., et al. [1996,eng] 50-6534
- Norwegian Sea Pleistocene ice-core indicators of climatic change. Sejrup, H.P., et al. [1995,eng] 50-6564
- Numerical modelling of North Atlantic Quaternary sedimentation. Haupt, B.J., et al. [1995,eng] 50-750
- Organic carbon in late Quaternary Arctic Ocean sediments. Schubert, C.J., [1995,ger] 50-2454
- Organic carbon paleo-PCO₂ and marine-ice core correlations and chronology. Raymo, M.E., et al. [1996,eng] 50-3601
- Paleoecological reconstruction of the Late Pleistocene, based on loess Malacofauna in Hungary. Krolopp, E., et al. [1995,eng] 50-1048
- Paleoecology of two lake basins from Disko, West Greenland. Bennike, O., [1995,eng] 50-1081
- Paleoceanographic surface water variations derived from ice-rafted sediments. Maslin, M.A., et al. [1995,eng] 50-565
- Paleoclimate from diatom distribution in a marine core. Zhan, Y.F., [1989,chi] 50-6780
- Paleoclimatological variations from isotope analysis of marine deposits. Rial, J.A., [1995,eng] 50-1286
- Paleoclimatology of Kamchatka from Cenozoic plant and foraminifera fossils. Fotianova, L.I., et al. [1994,eng] 50-900
- Paleoglaciation events on Baffin Island, Labrador Sea. Fillon, R.H., et al. [1981,eng] 50-3621
- Paleomagnetism of a glacialigenic sequence, South Australia. Schmidt, P.W., et al. [1995,eng] 50-411
- Particle interaction in fjord suspended sediment. Syvitski, J.P.M., et al. [1981,eng] 50-3764
- Past glaciation and sea levels on Bjørnøya, Svalbard. Salvigsen, O., et al. [1995,eng] 50-4720
- Pleistocene climatic changes in arctic marine atmospheres. Seidenkrantz, M.S., et al. [1996,eng] 50-5584
- Pleistocene glacial history of the Svalbard area. Hebbeln, D., [1992,eng] 50-2558
- Pleistocene glaciomarine isostatic rebound, Puget Lowland, Washington. Dethier, D.P., et al. [1995,eng] 50-1832
- Pleistocene-Holocene transition in Sweden. Lord, A.R., [1990,eng] 50-931
- Plio-Pleistocene foraminiferal stratigraphy in North Greenland. Feyling-Hanssen, R.W., [1990,eng] 50-5171
- Plio-Pleistocene megacycles: record of climate and tectonics. Kukla, G., et al. [1996,eng] 50-5099
- Plio-Pleistocene stratigraphy and paleobotany of the Kap København Formation. Bennike, O., [1990,eng] 50-5170
- Pliocene record in the central Arctic Ocean. Clark, D.L., [1996,eng] 50-6626
- Pliocene sand ridges at the Barents Sea margin. Knutsen, S.M., et al. [1996,eng] 50-5314
- Post glacial emergence and the Tapes transgression, north-central Kola Peninsula, Russia. Snyder, J.A., et al. [1996,eng] 50-5829
- Post-glacial mass flow and associated deposits in paleovalleys of Greenland. Collinson, J.D., et al. [1989,eng] 50-5168
- Postglacial sea-level history of Edgeøya and Barentsøya, eastern Svalbard. Bondevik, S., et al. [1995,eng] 50-4715
- Postglacial sedimentation in the Liefdefjord area, NW Spitsbergen. Baumhauer, R., et al. [1994,ger] 50-1581
- Precambrian glaciomarine sedimentation in East Greenland. Moncrieff, A.C.M., et al. [1990,eng] 50-935
- Present and early Holocene foraminiferal distribution in eastern Svalbard. Hansen, A., et al. [1995,eng] 50-4718
- Proceedings. China Symposium on Southern Ocean Expedition, 1st, Hangzhou, May, 1988, [1989,chi] 50-6763
- Pu, ¹³⁷Cs and excess ²¹⁰Pb in Russian arctic sediments. Baskaran, M., et al. [1996,eng] 50-5606
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Quaternary processes in eastern China and international correlation. Yang, Z.G., et al. [1993,chi] 50-1843
- Quaternary record of eastern Svalbard—an overview. Landvik, J.Y., et al. [1995,eng] 50-4711
- Radiocarbon date list VIII: Canada, Greenland, Iceland, and Antarctica. Manley, W.F., ed. et al. [1996,eng] 50-5927
- Radiocarbon dated common mussels *Mytilus edulis* from eastern Svalbard. Hjort, C., et al. [1995,eng] 50-4719
- Radiolaria biostratigraphy of core S₁₁ in the area northwest of Antarctic Peninsula. Chen, W.B., [1989,chi] 50-6779

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- Rapid climatic shifts during isotope stages 2-4 in the polar North Atlantic. Dokken, T.M., et al. [1996,eng] 50-6105
- Rapid isostatic rebound in southwestern Iceland at the end of the last glaciation. Ingólfsson, O., et al. [1995,eng] 50-1802
- Salinity of Quaternary deposits in the western Yamal Peninsula. Lakhina, O.V., et al. [1983,rus] 50-314
- Sea floor morphology and glacial history of the Barents Sea. Solheim, A., et al. [1988,eng] 50-887
- Sea levels in Petuniabukta—central Spitsbergen. Stankowski, W., [1989,pol] 50-2887
- Sediment flux along glaciated continental margins. Andrews, J.T., et al. [1994,eng] 50-1241
- Sediment types and sedimentation of the northwestern sea area of the Antarctic Peninsula. Lin, C.Q., et al. [1989,chi] 50-6785
- Sediment yields, lithofacies and mudrock in glaciomarine environments. Cai, J.K., [1994,eng] 50-695
- Sedimentary model and dynamic process of the Great Wall Bay coast, Antarctica. Wang, X.L., [1989,chi] 50-6782
- Sedimentary paleoclimatic indicators: what they are and what they tell us. Parrish, J.T., et al. [1993,eng] 50-1208
- Sedimentology and geomorphology of fjords. Syvitski, J.P.M., et al. [1995,eng] 50-1116
- Sediments in the Liefdefjord and Woodfjord of Spitsbergen. Kroemer, E.A., et al. [1994,eng] 50-1580
- Sequence types of Upper Quaternary deposits in the Kara Sea. Levitan, M.A., et al. [1995,eng] 50-3546
- Slope valleys in glaciomarine sediments of the Gulf of Alaska. Carlson, P.R., et al. [1990,eng] 50-922
- Statistical analysis of lithology of Arctic Ocean sediments. Darby, D.A., et al. [1996,eng] 50-5025
- Study of brash ice in the proximal marine zone of a sub-polar tidewater glacier. Smith, N.D., et al. [1996,eng] 50-6224
- Suspended sediments and organic carbon in Glacier Bay fjords. Cowan, E.A., [1995,eng] 50-3734
- Syngenetic layered ground ice in littoral marine deposits in Baydaratskaya Bay, Spetsivisev, V.I., [1996,rus] 50-6384
- Variations in Atlantic Ocean surface paleoceanography. Sarnthein, M., et al. [1995,eng] 50-3003
- Vendian glaciations and their relation to the dispersal of Rodinia: paleomagnetic constraints. Torsvik, T.H., et al. [1995,eng] 50-663
- Weddell Sea glaciomarine sedimentation variations. Crawford, K., et al. [1996,eng] 50-6261
- Weichselian glaciation in Svalbard before 15,000 B.P. Salvigsen, O., et al. [1981,eng] 50-3623
- West Siberian Quaternary stratigraphy. Arkhipov, S.A., et al. [1994,eng] 50-1210
- See also:* Sediments
- Marine geology**
- Age of pre-late-Wisconsinan glacial-estuarine sedimentation, Bristol Bay, Alaska. Kaufman, D.S., et al. [1996,eng] 50-4586
- Arctic coastal plain shorelines. Hill, P.R., et al. [1994,eng] 50-492
- Arctic kelp community in the Alaskan Beaufort Sea. Dunton, K.H., et al. [1982,eng] 50-3681
- Arctic Ocean—a special natural cryogenic system. Danilov, I.D., [1996,rus] 50-6374
- Arctic shelf in the last cryogenic epoch of the Late Pleistocene. Danilov, I.D., [1996,rus] 50-6353
- Barents Sea ice sheet retreat. Forman, S.L., et al. [1996,eng] 50-5585
- Barents Sea Pleistocene ice sheet growth deduced from marine sediment provenance. Elverhøi, A., et al. [1995,eng] 50-2012
- Base Pliocene velocity inversion on the eastern Vøring Margin—causes and implications. Reemst, P., et al. [1996,eng] 50-5316
- Beach sedimentation on paraglacial coasts. Forbes, D.L., et al. [1995,eng] 50-1119
- Braided outwash fans in the Gulf of Alaska. Boothroyd, J.C., et al. [1975,eng] 50-4814
- Buried loess in the Bohai Sea bottom and exposed along the coast. Liu, J.P., et al. [1995,chi] 50-4125
- CASP annual report—February 1995-31 January 1996. Cambridge Arctic Shelf Programme, [1996,eng] 50-4794
- Cenozoic deposition in the Nansen Basin, Barents Sea. Vågenes, E., [1996,eng] 50-5313
- Cenozoic deposition on the Svalbard continental shelf. Solheim, A., et al. [1996,eng] 50-5312
- Cenozoic erosion and sediment yield in the drainage area of the Storfjorden Fan. Hjelstuen, B.O., et al. [1996,eng] 50-5310
- Cenozoic Northern Hemisphere glaciations. Thiede, J., et al. [1995,eng] 50-5240
- Cenozoic shelf erosion of the Barents Sea margin. Fiedler, A., et al. [1996,eng] 50-5309
- Cenozoic uplift of Fennoscandia inferred from a study of the mid-Norwegian margin. Stuevold, L.M., et al. [1996,eng] 50-5324
- Clastic sediment features in the sea area adjacent to the South Shetland Islands. Feng, Y.J., et al. [1989,chi] 50-6783
- Clay mineral signature of the NW Atlantic Boundary Undercurrent. Fagel, N., et al. [1996,eng] 50-4822
- Clay minerals as sediment source indicators. Russian Arctic. Naidu, A.S., et al. [1995,eng] 50-1120
- Coastal Greenland Holocene sea level changes. Rasch, M., et al. [1995,eng] 50-5533
- Comment on paper by Baumann et al. Forsström, L., et al. [1996,eng] 50-6709
- Comment on paper by Blanchon et al. Clark, P.U., et al. [1995,eng] 50-1101
- Computer simulation of arctic shelf freezing during the Pleistocene. Sigunov, I.U.A., et al. [1995,eng] 50-6582
- Contribution to the geomorphological problem of strandflats. Tietze, W., [1962,ger] 50-5743
- Cretaceous to recent extension in the Bering Strait region, Alaska. Dumitru, T.A., et al. [1996,eng] 50-3714
- Cretaceous/Tertiary marine stratigraphy and petroleum potential, Tarim Basin. Tang, T.F., et al. [1989,chi] 50-1847
- Dating of Norwegian Pleistocene rock sediments. Balashov, I.U.A., et al. [1995,eng] 50-5534
- Deglaciation of a Late Devensian British ice sheet. Merritt, J.W., et al. [1995,eng] 50-1858
- Deposition of organic matter in the Norwegian-Greenland Sea during the past 2.7 million years. Wagner, T., et al. [1995,eng] 50-2016
- Depositional environment of the Laptev Sea shelf. Nürnberg, D., et al. [1995,eng] 50-940
- Early Holocene moraine bank sedimentology of East Greenland. Huddart, D., et al. [1990,eng] 50-929
- Effect of sedimentation on the advance of a fjord-type glacier. Motyka, R.J., et al. [1995,eng] 50-3736
- Evidence for a fluidized till deposit on the Ross Sea continental shelf. Jahns, E., [1994,eng] 50-2695
- Evidence for Cenozoic crustal extension in the Bering Sea region. Cooper, A.K., et al. [1992,eng] 50-2565
- Evidence for Holocene seismic triggering of Arctic Ocean turbidites. Grantz, A., et al. [1996,eng] 50-6223
- Evidence of Holocene sea level rise from Nova Scotian bottom sediments. Scott, D.B., et al. [1995,eng] 50-4528
- Evidence of Pleistocene drainage of a Scandinavian ice lake. Bergsten, H., et al. [1992,eng] 50-2555
- Evolution and age of shorelines along Woodford, northern Spitsbergen. Brückner, H., et al. [1994,eng] 50-1582
- Expedition ARKTIS-X/2 of RV *Polarstern* in 1994. Hubberten, H.W., ed. [1995,eng] 50-1548
- Fossilization potential of arctic fjord and continental shelf benthic macrofaunas. Aitken, A.E., [1990,eng] 50-923
- Geological investigations on the Novosibirsk Islands. Pasch, H.J., [1995,eng] 50-2107
- Geological structure of the Laptev Ocean shelf. Kim, V.I., et al. [1995,eng] 50-2108
- Geometry and genesis of the glacial sediments in the southern Barents Sea. Vorren, T.O., et al. [1990,eng] 50-928
- Geomorphological and neotectonic features of Hurd Peninsula, Livingston Island, South Shetland Islands. Pallas, R., et al. [1995,eng] 50-1337
- Geomorphology of the shelf of the South Shetland Islands within the limits of Bransfield Strait. Marsz, A.A., [1989,pol] 50-2884
- Glacial geomorphic features in the northern Barents Sea. Solheim, A., et al. [1990,eng] 50-927
- Glacial influence on offshore Norwegian sediment properties. Sættem, J., et al. [1996,eng] 50-5320
- Glacial isostasy and lateral mantle viscosity. Sabadini, R., et al. [1989,eng] 50-4710
- Glacially-fed North Sea Quaternary sedimentation. King, E.L., et al. [1996,eng] 50-4877
- Glacially-influenced sedimentation on the Hebridean slope. Stoker, M.S., [1990,eng] 50-933
- Glacially-influenced Yakutat Formation on Middleton I. Eyles, C.H., et al. [1990,eng] 50-934
- Glacier fluctuations and sediment yields in Glacier Bay. Cai, J.K., et al. [1995,eng] 50-3733
- Glaciomarine deposits in southwestern Sweden. Stevens, R.L., [1990,eng] 50-930
- Glaciomarine sediments from the Celtic Sea. Scourse, J.D., et al. [1990,eng] 50-932
- Glacio-isostatic implications of Swedish Holocene shore displacement. Berglund, M., [1995,eng] 50-3367
- Global change research at Glacier Bay National Park. Powell, R.D., [1995,eng] 50-3731
- Global sea level rise and glacial isostatic adjustment. Peltier, W.R., [1996,eng] 50-4310
- Ground-line sedimentation at the Mackay Glacier Tongue. Dawber, M., et al. [1994,eng] 50-1897
- Grounding line and mass balance effects on glacier stability. Hunter, L.E., [1994,eng] 50-694
- Gulf of Alaska paleoclimatological influence on marine ecology. Lagoe, M.B., et al. [1996,eng] 50-6625
- Gulf of Mexico meltwater influx during Laurentide deglaciation. Marchitto, T.M., et al. [1995,eng] 50-340
- Holocene shoreline displacement in southernmost Spitsbergen. Ziaja, W., et al. [1995,eng] 50-5537
- Ice drift reconstructions from ice rafted coal fragments. Bischof, J., et al. [1990,eng] 50-926
- Ice-proximal sediment dynamics in Glacier Bay. Hunter, L.E., et al. [1995,eng] 50-3735
- Ice-rafted tephra sedimentation of the North Atlantic. Lacasse, C., et al. [1996,eng] 50-4140
- Iceberg sediment deposits in a Greenland glaciomarine setting. Syvitski, J.P.M., et al. [1996,eng] 50-5319
- Identification of the Holocene-Pleistocene boundary in the Bering Sea by diatoms. Baldauf, J.G., [1982,eng] 50-3382
- Impact of Cenozoic uplift on offshore Norwegian hydrocarbon exploration. Doré, A.G., et al. [1996,eng] 50-5327
- Influence of glaciation on the basin temperature regime. Johansen, H., et al. [1996,eng] 50-5328
- Isotope tracking of Pleistocene ice-rafted debris. Gwiazda, R.H., et al. [1996,eng] 50-4399
- Last deglaciation of the Franz Victoria Trough, northern Barents Sea. Lubinski, D.J., et al. [1996,eng] 50-6535
- Last glaciation in central Magellan Strait, southernmost Chile. Clapperton, C.M., et al. [1995,eng] 50-964
- Late Cenozoic evolution of the western Barents Sea-Svalbard continental margin. Faleide, J.I., et al. [1996,eng] 50-5308
- Late Cenozoic history of the Scandinavian and Barents Sea ice sheets. Mangerud, J., et al. [1996,eng] 50-5305
- Late Cenozoic sedimentation and uplift history on the mid-Norwegian continental shelf. Henriksen, S., et al. [1996,eng] 50-5315
- Late glacial raised beaches and glacier recession in northeast Iceland. Norddahl, H., et al. [1993,eng] 50-4772
- Late Pleistocene sea level fluctuations and marine terraces. Radtke, U., [1990,ger] 50-1795
- Late Quaternary foraminiferal stratigraphy from western Svalbard. Lycke, A.K., et al. [1992,eng] 50-2557
- Late Quaternary glacial and environmental history of Kongsoya, Svalbard. Ingólfsson, O., et al. [1995,eng] 50-4713
- Late Quaternary stratigraphy and glaciology in the Thule area, Northwest Greenland. Funder, S., ed. [1990,eng] 50-5169
- Late Quaternary subaqueous outwash deposits near Ottawa, Canada. Rust, B.R., et al. [1975,eng] 50-4813
- Late stage 5 glacio-isostatic sea in the St. Lawrence Valley, Canada and the United States. Occhietti, S., et al. [1996,eng] 50-4577
- Late Weichselian glacial maximum on Andøya, north Norway. Möller, J.J., et al. [1992,eng] 50-2546
- Late Weichselian to early Holocene sedimentation in eastern Svalbard. Möller, P., et al. [1995,eng] 50-4716
- Late Wisconsinan ice retreat from the Scotian Shelf. King, L.H., [1996,eng] 50-6533
- Limits on the areal extent of the Barents Sea ice sheet in Late Weichselian time. Lambeck, K., [1996,eng] 50-5307
- Linking physical property records of Quaternary sediments to Heinrich events. Chi, J., et al. [1996,eng] 50-5221
- Long-term ice-sheet stability study in Ross Sea cores. Licht, K., et al. [1994,eng] 50-1893
- Margin of the last Barents-Kara ice sheet at Markhida, northern Russia. Tveranger, J., et al. [1995,eng] 50-2014
- Marine clay deposits in ice water around the South Shetlands. Zhou, F.G., et al. [1989,chi] 50-6781
- Marine fossils and glacial history of raised beach deposits around Lützow-Holm Bay. Igarashi, A., et al. [1995,eng] 50-3695
- Marine geophysical investigations in the Laptev Sea and the western part of the East Siberian Sea. Roeser, H.A., et al. [1995,eng] 50-2106
- Marine glacial deposition around the South Shetland Islands. Huang, H.Y., et al. [1989,chi] 50-6784
- Mass movements in glaciomarine sediments on the Barents Sea continental slope. Kuvaas, B., [1996,eng] 50-5321
- Middle and Late Pleistocene evolution of the Bear Island Trough Mouth Fan. Laberg, J.S., et al. [1996,eng] 50-5322
- Modelling mountain slopes from the Late Vistulian in Spitsbergen. Drecki, J., [1989,pol] 50-2881
- Modern glaciomarine environments. Powell, R.D., et al. [1995,eng] 50-3594
- Moraine bank facies in Ireland. McCabe, A.M., et al. [1995,eng] 50-921
- Moraine bank ground-line process during coastal Maine deglaciation. Hunter, L.E., et al. [1996,eng] 50-6532
- Nearshore geotechnical and environmental properties in arctic regions. Clausner, J.E., et al. [1978,eng] 50-3941
- New data on the geology and paleogeography of the Late Pliocene-Middle Pleistocene in Eurasia. Kostiaev, A.G., [1996,rus] 50-6355
- New geography of the polar regions: synthesis and perspectives. Orombelli, G., ed. et al. Atti del Convegno della Società Geografica Italiana, Roma, 21-22 Novembre 1991 (Proceedings of the Italian Geographical Society Conference, Rome, 21-22 November 1991). [1994,ita] 50-2817
- North Sea and Norwegian Sea hydrocarbon exploration. Alberti, Di Catenaja, C., et al. [1994,ita] 50-2818
- North Sea lithostratigraphy related to glacial isostasy. Ekman, S.R.R., [1995,eng] 50-6560
- North Sea paleoenvironments during the last deglaciation. Knudsen, K.L., et al. [1996,eng] 50-6534
- Ny Friesland Orogen, Spitsbergen. Harland, W.B., et al. [1992,eng] 50-5155
- Observations of anomalous oceanic crust in the Canada Basin, Arctic Ocean. Jackson, H.R., et al. [1995,eng] 50-410
- Observations of the grounding-line area at a floating glacier terminus. Powell, R.D., et al. [1996,eng] 50-6264
- Oceanic methane hydrates: a "frontier" gas resource. Max, M.D., et al. [1996,eng] 50-4799
- Organic carbon in late Quaternary Arctic Ocean sediments. Schubert, C.J., [1995,ger] 50-2454
- Paleoclimate of the North Atlantic seaboard during the last glacial/interglacial transition. Lowe, J.J., et al. [1995,eng] 50-501
- Paleogeology's grand unsolved problem. Grosval'd, M.G., et al. [1995,eng] 50-453
- Paraglacial coasts. Forbes, D.L., et al. [1994,eng] 50-493
- Particle interaction in fjord suspended sediment. Syvitski, J.P.M., et al. [1981,eng] 50-3764
- Past glaciation and sea levels on Bjørnøya, Svalbard. Salvigsen, O., et al. [1995,eng] 50-4720
- Petroleum resources of the Mackenzie Delta and Beaufort Sea. Dixon, J., et al. [1994,fre] 50-3319
- Petroleum-producing sequences in the Phanerozoic deposits of the arctic islands. Daniushkevskaja, A.I., [1996,eng] 50-5704

Marine meteorology

- Plate tectonics and climate change in the Cenozoic. Eldholm, O., et al. [1994,eng] 50-896
- Pleistocene glacial history of the Svalbard area. Hebbeln, D., [1992,eng] 50-2558
- Pleistocene glaciomarine isostatic rebound. Puget Lowland, Washington. Dethier, D.P., et al. [1995,eng] 50-1832
- Pleistocene-Holocene transition in Sweden. Lord, A.R., [1990,eng] 50-931
- Plio-Pleistocene foraminiferal stratigraphy in North Greenland. Feyling-Hanssen, R.W., [1990,eng] 50-5171
- Pliocene sand ridges at the Barents Sea margin. Knutsen, S.M., et al. [1996,eng] 50-5314
- Polar hydrocarbon technologies: future developments. Yates, J., et al. [1995,eng] 50-5446
- Possibility of subsea cryolithogenesis. Shpolianskaia, N.A., [1990,rus] 50-1627
- Possible consequences of glacially induced groundwater flow. Forsberg, C.F., [1996,eng] 50-5325
- Possible influence of glacial eustasy on antarctic shelf stratigraphy. Baret, L.R., et al. [1996,eng] 50-4823
- Post glacial emergence and the Tapes transgression, north-central Kola Peninsula, Russia. Snyder, J.A., et al. [1996,eng] 50-5829
- Post-glacial mass flow and associated deposits in paleovalleys of Greenland. Collinson, J.D., et al. [1989,eng] 50-5168
- Postglacial sea-level history of Edgeøya and Barentsøya, eastern Svalbard. Bondevik, S., et al. [1995,eng] 50-4715
- Precambrian glaciomarine sedimentation in East Greenland. Moncrieff, A.C.M., et al. [1990,eng] 50-935
- Present and early Holocene foraminiferal distribution in eastern Svalbard. Hansen, A., et al. [1995,eng] 50-4718
- Proceedings. China Symposium on Southern Ocean Expedition. 1st. Hangzhou, May, 1988. [1989,chi] 50-6763
- Proceedings. Glacier Bay Science Symposium, 3rd, Glacier Bay National Park and Preserve, Gustavus, AK, Sep. 15-18, 1993. [1995,eng] 50-3730
- Quantification of Barents Sea Pleistocene bottom erosion. Rasmussen, E., et al. [1996,eng] 50-5311
- Quaternary processes in eastern China and international correlation. Yang, Z.G., et al. [1993,chi] 50-1843
- Quaternary record of eastern Svalbard—an overview. Landvik, J.Y., et al. [1995,eng] 50-4711
- Quaternary sedimentary processes and budgets in Orphan Basin, southwestern Labrador Sea. Hiscott, R.N., et al. [1996,eng] 50-4579
- Radiocarbon date list VIII: Canada, Greenland, Iceland, and Antarctica. Manley, W.F., ed. et al. [1996,eng] 50-5927
- Radiocarbon dated common mussels *Mytilus edulis* from eastern Svalbard. Hjort, C., et al. [1995,eng] 50-4719
- Raised marine terraces on the western border of Petuniabukta, central Spitsbergen. Rygielski, W., et al. [1989,pol] 50-2886
- Rapid isostatic rebound in southwestern Iceland at the end of the last glaciation. Ingólfsson, O., et al. [1995,eng] 50-1802
- Recent history of the Bering Strait. Svitoch, A.A., et al. [1995,eng] 50-2535
- Record of Holocene paleoclimate changes from glacial marine sediments in Lallemand Fjord. Shevenell, A.E., [1996,eng] 50-4074
- Reservoir potential of an upwelling deposit, Prudhoe Bay. Kupez, J.A., [1995,eng] 50-6851
- Role of cryosols in the accumulation of current bottom sediments of the Arctic Ocean. Levitan, M.A., et al. [1995,rus] 50-4119
- Role of North Atlantic margin uplift in Cenozoic glaciation. Eyles, N., [1996,eng] 50-3386
- Russian-German cooperation: Laptev Sea system. Kassens, H., ed. et al. [1995,eng] 50-2059
- Scandinavian Pleistocene tectonic correlations. Riis, F., [1996,eng] 50-5323
- Sea floor morphology and glacial history of the Barents Sea. Solheim, A., et al. [1988,eng] 50-887
- Sea ice scouring on the inner shelf of the southeastern Canadian Beaufort Sea. Héquette, A., et al. [1995,eng] 50-1830
- Sea level variations related to glacial isostasy. Mitrović, J.X., et al. [1995,eng] 50-1185
- Sediment flux from a fjord during glacial periods, Isfjorden, Spitsbergen. Hooke, R.L., et al. [1996,eng] 50-5318
- Sediment reworking by ice gouging in the western Laptev Sea. Lindemann, F., et al. [1995,eng] 50-2096
- Sediment types and sedimentation of the northwestern sea area of the Antarctic Peninsula. Lin, C.Q., et al. [1989,chi] 50-6785
- Sedimentary model and dynamic process of the Great Wall Bay coast, Antarctica. Wang, X.L., [1989,chi] 50-6782
- Sedimentation at a tidewater glacier in Arthur Harbor. Ashley, G.M., et al. [1994,eng] 50-2223
- Sedimentological data on cores from the Joides Basin. Corradi, N., et al. [1995,eng] 50-4394
- Sedimentology and geomorphology of fjords. Syvitski, J.P.M., et al. [1995,eng] 50-1116
- Sediments in the Liefdefjord and Woodfjord of Spitsbergen. Kroemer, E.A., et al. [1994,eng] 50-1580
- Seismic reflection results from an ice island over the arctic continental shelf. Cox, T.P., et al. [1990,eng] 50-3763
- Shelf freezing and cryolithogenesis evolution of the Laptev Sea. Faryshev, A.I., [1990,rus] 50-1631
- Slope valleys in glaciomarine sediments of the Gulf of Alaska. Carlson, P.R., et al. [1990,eng] 50-922
- Stability of sublittoral, fine-grained sediments in a subarctic estuary. Amos, C.L., et al. [1996,eng] 50-4044

- Structural pattern and tectonic history of the Laptev Sea region. Drachev, S.S., et al. [1995,eng] 50-2105
- Subaqueous cryolithology survey and mapping of the oceanic cryolithosphere. Zhigarev, L.A., [1996,rus] 50-6363
- Submerged terraces in the Barents Sea. Lebesbye, E., et al. [1996,eng] 50-4876
- Suspended sediments and organic carbon in Glacier Bay fjords. Cowan, E.A., [1995,eng] 50-3734
- System of Cenozoic rifts in the eastern Arctic and its possible implications. Bogdanov, N.A., et al. [1995,rus] 50-4121
- Thermal effects of the ocean on permafrost. Lachenbruch, A.H., [1957,eng] 50-3943
- Thermal rejuvenation of the Yermak Plateau. Okay, N., et al. [1994,eng] 50-4249
- Topographic control on the dynamics of the Svalbard-Barents Sea ice sheet. Siegert, M.J., et al. [1996,eng] 50-5306
- Weddell Sea glaciomarine sedimentation variations. Crawford, K., et al. [1996,eng] 50-6261
- Younger Dryas ice-marginal deposits in Norway. Andersen, B.G., et al. [1995,eng] 50-511

Marine meteorology

- Aerosols composition over the Arctic Ocean. Shevchenko, V.P., et al. [1995,eng] 50-2061
- Arctic process and climate studies with the TOVS satellite sounder. Francis, J.A., [1994,eng] 50-684
- Atmosphere-ocean interactions in the marginal ice zones of the Nordic seas. Guest, P.S., et al. [1995,eng] 50-1161
- Atmospheric bromine in the Arctic. Berg, W.W., et al. [1983,eng] 50-3650
- Atmospheric contribution to hydrologic variations in the Arctic. Walsh, J.E., et al. [1994,eng] 50-1034
- Canadian Atlantic Storms Program: progress and plans of the meteorological component. Stewart, R.E., [1991,eng] 50-4416
- Characteristics of Arctic Ocean climate based on COADS data, 1980-1993. Clark, M.P., et al. [1996,eng] 50-6545
- Climatological aspects of cyclone development and decay in the Arctic. Serreze, M.C., [1995,eng] 50-599
- Convergence band clouds along the west coast of Hokkaido. Kobayashi, F., et al. [1993,eng] 50-6040
- Development of a regional climate model of the western Arctic. Lynch, A.H., et al. [1995,eng] 50-597
- Development of field technology and methods for forecasting snowfall and snow cover. [1989,jpn] 50-2041
- Doppler radar observation of vortex-type snowstorm in Hokkaido. Shirooka, R., et al. [1994,eng] 50-6041
- Effect of ENSO and Eurasian snow cover on the Asian summer monsoon. Li, C.F., [1994,eng] 50-681
- ERS-1 SAR wind vector data from the Norwegian continental shelf. Wackerman, C.C., et al. [1994,eng] 50-1511
- Infrasonic signatures of a polar low in the Norwegian and Barents Sea on 23-27 March 1992. Ørbæk, J.B., et al. [1995,eng] 50-2026
- International Arctic Buoy Program Meeting in Oslo. Dugan, J.P., [1992,eng] 50-3932
- Investigations of air-sea interactions carried out during the TRANSDRIFT II Expedition. Afanas'eva, I.U., et al. [1995,eng] 50-2060
- Meltwater event in the North Atlantic during last glacial maximum. Seidov, D., et al. [1996,eng] 50-6217
- Mesoscale and microscale characteristics of a CASP II severe ice pellet storm. Hanesiak, J.M., [1994,eng] 50-4170
- Mesoscale and microscale structure of a severe ice pellet storm. Hanesiak, J.M., et al. [1995,eng] 50-1526
- National winter storms operations plan. [1995,eng] 50-1073
- Numerical analysis of atmospheric water cycle over Antarctica. Bromwich, D.H., et al. [1995,eng] 50-2020
- Numerical simulation of arctic stratus cloud turbulence. Smith, W.S., et al. [1996,eng] 50-2773
- Oceanic satellites in the Global Ocean Observing System. Sherman, J.W., III, [1993,eng] 50-4801
- Palaeoclimate of the North Atlantic seaboard during the last glacial/interglacial transition. Lowe, J.J., et al. [1995,eng] 50-501
- Polar lows in the Labrador Sea—a case study. Moore, G.W.K., et al. [1996,eng] 50-3821
- Prototype of a moored meteorological/oceanographic buoy for Terra Nova Bay. Gasparoni, F., et al. [1994,eng] 50-5183
- Seasonal simulation of the southern ocean coupled ice-ocean system. Häkkinen, S., [1995,eng] 50-2113
- Sensitivity of numerical prognoses to antarctic sea ice distribution. Watkins, A.B., et al. [1995,eng] 50-2111
- Snow and ice research in Japan during the past 50 years. Nakamura, T., [1995,jpn] 50-606
- Snow distribution in Japan. Shitara, H., [1988,jpn] 50-2045
- Subgrid parameterization of surface heat and momentum fluxes over polar oceans. Vihma, T., [1995,eng] 50-2110
- Svalbard—field excursion in arctic marine biology, June 5-14, 1995. Weissenberger, J., ed. et al. [1995,eng] 50-1554
- Temperature conditions in Iceland and the North Atlantic, 1901-1990. Einarsson, M.A., [1993,eng] 50-4770
- United States Navy operational oceanographic nowcast/forecast system. Durham, D.L., [1994,eng] 50-5176
- Wintertime polar low over the eastern Weddell Sea. Heinemann, G., [1996,eng] 50-3708

Marine transportation

- Arctic and Europe. Gerhardsen, T.S., [1996,eng] 50-4423
- Arctic and Russia. Granberg, A.G., [1996,eng] 50-4422
- Arctic: historical outline. Ohta, Y., [1996,eng] 50-4424
- Can the Northern Sea Route be profitable. Schwarz, J., [1996,eng] 50-4490

Marine transportation

- Commercial aspects of the Northern Sea Route. Ivanov, I.U.M., [1996,eng] 50-4444
- Current policy of the Russian Federation regarding development and management of the Northern Sea Route System. Arikainen, A.I., et al. [1996,eng] 50-4450
- Development of optimum hull forms for icebreaking cargo ships for the Northern Sea Route. Kishi, S., et al. [1996,eng] 50-4473
- Development of transportation centers and communications in northwestern Russia. Koniukhov, A.P., [1995,rus] 50-3078
- Diversity of modern antarctic vessels. Mäkinen, E., et al. [1994,eng] 50-4280
- Ecological safety of navigation on the Northern Sea Route. Semanov, G.N., [1996,eng] 50-4437
- Effects of northern shipping and storage on corrosion performance. Perrigo, L.D., III, et al. [1996,eng] 50-5952
- Environmental aspects of the Northern Sea Route. Hansson, R., et al. [1996,eng] 50-4439
- Environmental factors: conceptual design and current status. Hansson, R., et al. [1996,eng] 50-4436
- Environmental impact assessment (EIA) in INSROP. Thomasen, J., et al. [1996,eng] 50-4438
- Environmental security and the NSR: a pan-Arctic challenge? Østrem, W., [1996,eng] 50-4451
- Escorting and tethering oil tankers in Prince William Sound. Corsini, T.J., [1995,eng] 50-5718
- Experiences of three years of oil transportation in the Russian Arctic with a Western fleet. Niimi, M., [1996,eng] 50-4486
- Experimental voyage through Northern Sea Route. Yamaguchi, H., [1996,eng] 50-4425
- Icebreaker agreement. [1992,eng] 50-4413
- Identification of ice classes and rules for ships intended to navigate in the Arctic. Karavanov, S.B., et al. [1996,eng] 50-4464
- Influence of ice conditions on NSR transit sailing. Vefsnmo, S., et al. [1996,eng] 50-4459
- INSROP GIS—the concept and its role in INSROP. Lavås, S.M., et al. [1996,eng] 50-4426
- International Petropavlovsk-Kamchatskiy Port. Semenikhin, I.A.N., et al. [1996,eng] 50-4489
- Intrasecular changes in ice conditions and conditions for ice navigation in the 20th century. Zakharov, V., et al. [1996,eng] 50-4481
- Introduction to INSROP. Østrem, W., [1996,eng] 50-4420
- Legal conditions for navigating the Northern Sea Route. Ørebech, P., [1996,eng] 50-4452
- Legal status of the Northern Sea Route. Timchenko, L.D., [1996,eng] 50-4454
- Meteorological support for navigation along the Northern Sea Route. Kondrat'ev, K.I.A., et al. [1994,eng] 50-648
- Navigation and the pollution of the coastal zone of Arctic seas. Slevich, S.B., et al. [1991,rus] 50-1319
- Northern Sea Route and the regional development in the North. Høifødt, S.L., [1996,eng] 50-4441
- Northern Sea Route: is it a viable marine insurance risk? Gold, E., [1996,eng] 50-4443
- Northern Sea Route: its development and evolving state of operations in the 1990s. Mulherin, N.D., [1996,eng] 50-4960
- Northern Sea Route: future & perspective. Northern Sea Route: future & perspective. Proceedings of INSROP Symposium, Tokyo, Oct. 1-6, 1995. [1996,eng] 50-4419
- Oil pollution in Arctic waters. Futsaeter, G., et al. [1991,eng] 50-3421
- Perceptions and relations between Russia and its northeast Asian neighbors. Simonsen, H., [1996,eng] 50-4453
- Political, legal and strategic aspects of the Northern Sea Route. Ushakov, A.P., [1996,eng] 50-4455
- Preliminary application of Canadian ice regime system to the Northern Sea Route. Jones, S.J., et al. [1996,eng] 50-4429
- Preliminary study of tankers for year-round transportation of crude oil from Ob Gulf. Tsoi, L.G., et al. [1996,eng] 50-4461
- Project I: natural conditions and ice navigation. Buzuev, A., [1996,eng] 50-4435
- Project I: natural conditions and ice navigation. Lavås, S.M., [1996,eng] 50-4434
- Project II.6.2: Environmental safety of navigation. Tsoi, L.G., et al. [1996,eng] 50-4440
- Project III.12.1: improve information on navigating the NSR. Baskin, A.T., [1996,eng] 50-4448
- Project III.6.1: Survey of logistics models. Shchelkanov, A.G., et al. [1996,eng] 50-4445
- Project III.7.2: Potential of the NSR as a regular cargo service. Ivanov, I.U.M., et al. [1996,eng] 50-4446
- Project IV.1.1: historical and current use of the Northern Sea Route. Ivanov, I.U.M., et al. [1996,eng] 50-4456
- Project IV.1.2: "NSR-pilot" guide to navigation along the NSR. Mikhailichenko, V., et al. [1996,eng] 50-4457
- Project of gas liquefaction at the Yamal Peninsula: the problem and solution. Grisenko, A.I., et al. [1996,eng] 50-4488
- Revolution in arctic navigation. Ternovoi, E., [1995,rus] 50-3236
- Russian Arctic straits under international law. Brubaker, D., [1996,eng] 50-4449
- Russian Arctic water under international law. Brubaker, D., [1996,eng] 50-4458
- Russian module of the INSROP information system. Grishchenko, V.D., et al. [1996,eng] 50-4427
- Seaborne oil and gas transportation from Northern Russia. Backlund, A., [1996,eng] 50-4487

Markers

Mathematical models

- Series of model tests in ice of ice-going cargo ships for future traffic in the Northern Sea Route. Ishikawa, S., et al. [1996.eng] 50-4472
- Shipping on the Northern Sea Route. Barabanov, N.V. [1996.eng] 50-4485
- Significance of the NSR for regional development in arctic areas of Russia. Granberg, A.G., [1996.eng] 50-4442
- Specialized ice information for planning sea operations along the NSR. Brovin, A.I., et al. [1996.eng] 50-4428
- Still the Great Lakes' best icebreaker. [1995.eng] 50-3039
- Technological-ecological problems in navigation. Stepanov, A.L., [1991.rus] 50-1318
- Underwater transport system for the Arctic. Kuteinikov, A.V., et al. [1996.eng] 50-4476
- West Siberian oil and the northern sea route: current situation and future potential. Kriukov, V., et al. [1995.eng] 50-6104
- Markers**
- Experimental investigations on the effectiveness of avalanche balloons. Tschirky, F., et al. [1995.eng] 50-4686
- Investigation of the impact of snow removal activities on pavement markings in Virginia. Cottrill, B.H., Jr., [1995.eng] 50-2791
- Poles spaced along the road with overhead reflectors as lane markers in snow. Hirasawa, H., et al. [1994.jp] 50-2837
- Mars (planet)**
- Alteration of volatile inventories by polar clathrate formation on Mars. Musselwhite, D., et al. [1995.eng] 50-2133
- Description of the Martian polar cap breeze. Fernández, W., [1995.eng] 50-3671
- Detection and monitoring of H₂O and CO₂ ice clouds on Mars. Bell, J.F., III, et al. [1996.eng] 50-5195
- Feasibility of infrared sensing of Martian cloud and surface ices. Johnson, B.R., et al. [1996.eng] 50-3865
- Hoods, mists, frosts, and ice caps at the poles of Mars. Dollfus, A., et al. [1996.eng] 50-5194
- Impact crater lakes on Mars. Newsom, H.E., et al. [1996.eng] 50-5777
- Low brightness temperatures of Martian polar caps: CO₂ clouds or low surface emissivity? Forget, F., et al. [1995.eng] 50-2120
- Martian atmospheric carbon 14 as indicator of atmosphere-regolith gas exchange. Jakosky, B.M., et al. [1996.eng] 50-3009
- Numerical simulation of the Martian polar cap breeze. Fernández, W., [1995.eng] 50-3672
- Water vapor saturation at low altitudes around Mars aphelion: a key to Mars climate? Clancy, R.T., et al. [1996.eng] 50-5831
- Marshes** See [also]: Swamps
- Masonry**
- Abrasion of various kinds of stones due to a movement of ice sheet. Hanada, M., et al. [1996.jp] 50-5884
- Minimum thermal protection for cold weather masonry. Korhonen, C.J., et al. [1996.eng] 50-6118
- Mass balance**
- ²²²Ra as a tracer for shelf water in the Arctic Ocean. Van der Loeff, M.M.R., et al. [1995.eng] 50-4564
- Antarctic ice sheet mass balance. Loewe, F., [1961.ger] 50-6422
- Degradation of Arctic ice cap islands from climatic warming. Ignatieva, I.I.U., et al. [1993.rus] 50-883
- Evaporation from a small lake in the continental Arctic using multiple methods. Gibson, J.J., et al. [1994.eng] 50-5694
- Hydrochemical processes during snowmelt in a subalpine watershed, Colorado, USA. Peters, N.E., et al. [1995.eng] 50-2423
- Rapid collapse of northern Larsen Ice Shelf, Antarctica. Rott, H., et al. [1996.eng] 50-2571
- Reassessment of the Eurasian river input of water, sediment, major elements, and nutrients to the Arctic Ocean. Gordeev, V.V., et al. [1996.eng] 50-5693
- Sea ice extent and surface mass accumulation in Amundsen, Bellingshausen and Weddell seas. Giovinetto, M.B., et al. [1993.eng] 50-3553
- Sub-surface melting in a seasonal snow cover. Koh, G., et al. [1995.eng] 50-1869
- Watershed hydrochemistry simulation. Ohle, N., et al. [1995.eng] 50-2410
- Wutach gorge in SW Germany: late Würmian (periglacial) downcutting versus Holocene processes. Einsele, G., et al. [1995.eng] 50-2750
- See [also]: Glacier mass balance
- Mass exchange** See [also]: Mass transfer
- Mass flow**
- Eruption-triggered debris flow on snow-clad volcanoes. Pierson, T.C., [1995.eng] 50-1655
- Gelifluction in the alpine periglacial environment of the Tianshan Mountains, China. Liu, G.N., et al. [1996.eng] 50-6704
- Geomorphic effects of the retreat of Jampapa Glacier, Pico de Orizaba Volcano (Mexico). Palacios, D., et al. [1996.eng] 50-5578
- Glacial or non-glacial origin for the Bigganjarga tillite, Finnmark, northern Norway. Jensen, P.A., et al. [1996.eng] 50-4395
- Glacially-fed North Sea Quaternary sedimentation. King, E.L., et al. [1996.eng] 50-4877
- Holocene climate fluctuations and geomorphic impact of extreme events in Svalbard. André, M.F., [1995.eng] 50-4192
- Holocene debris-flow activity in northern Sweden. Jonasson, C., [1993.eng] 50-837
- Holocene mass movement on Scottish mountains. Ballantyne, C.K., [1993.eng] 50-831
- Icelandic turf-banked terrace geomorphology. Douglas, T.D., et al. [1996.eng] 50-5498
- Paleoclimatic implications of Norwegian postglacial avalanches. Blikra, L.H., et al. [1993.eng] 50-835
- Pleistocene paraglacial landsliding in South Wales. Shakesby, R.A., et al. [1996.eng] 50-5859
- Role of climate in periglacial solifluction. Harris, C., [1993.eng] 50-845
- Snowmelt and slush torrents in Swedish Lapland. Gude, M., et al. [1995.eng] 50-4188
- Solifluction and climatic variation in the Holocene: discussion and synthesis. Matthews, J.A., et al. [1993.eng] 50-848
- Volcanic eruption at a New Zealand ski resort prompts reevaluation of hazards. Ruapehu Surveillance Group, [1996.eng] 50-5501
- Mass movements (geology)**
- Alpine tree line soil erosion derived from bedrock geomorphological map analysis. Stocker, E., [1996.ger] 50-6678
- Case studies of geoproceses and environmental change in mountains of northern Sweden. Rapp, A., [1995.eng] 50-4187
- Catastrophic mass movements in the mountains around the Qinghai-Xizang Plateau. Fort, M., et al. [1995.eng] 50-4835
- Cenozoic shelf erosion of the Barents Sea margin. Fiedler, A., et al. [1996.eng] 50-5309
- Climatological significance of moraine ridges in Iceland. Krüger, J., [1995.eng] 50-2858
- Cryogenic landslides on the Yamal Peninsula, Russia: preliminary observations. Leibman, M.O., [1996.eng] 50-6703
- Debris transfer and sedimentary environments: alpine glaciated areas. Johnson, P.G., [1995.eng] 50-4828
- Eruption-triggered debris flow on snow-clad volcanoes. Pierson, T.C., [1995.eng] 50-1655
- Hillslope ice wedges and landform evolution on coastal arctic Canada. Mackay, J.R., [1995.eng] 50-3298
- Holocene evolution of a stretch of an eastern Italian alpine valley. Friz, C., et al. [1995.eng] 50-6697
- Mass movements in glaciomarine sediments on the Barents Sea continental slope. Kuvaas, B., [1996.eng] 50-5321
- Mountain permafrost and slope instability in the Italian Alps: the Val Pola landslide. Dramis, F., et al. [1995.eng] 50-669
- Periglacial denudation in the Richardson Mountains. Fried, G., et al. [1993.eng] 50-1675
- Periglacial landforms and sediments. Semmel, A., [1990.ger] 50-1793
- Post-glacial mass flow and associated deposits in paleovalleys of Greenland. Collinson, J.D., et al. [1989.eng] 50-5168
- Quaternary periglacial conditions of a Himalayan river valley fill. Marb, B.S., et al. [1994.eng] 50-5548
- Slope erosion processes in the Alps. Becht, M., [1995.eng] 50-4829
- Steepland geomorphology. Slaymaker, O., ed. [1995.eng] 50-4827
- Mass transfer**
- Age of carbon black atmospheric aerosols over Finland. Raunemaa, T., et al. [1996.eng] 50-5257
- Can inorganic chemical species volatilize from snow. Cragin, J.H., et al. [1995.eng] 50-2393
- Chernobyl fallout in Bering Sea sediments. Kusakabe, M., et al. [1988.eng] 50-4635
- Ecological problems in the cryogenic-hydrogeological conditions in northwestern Siberia. Petrova, R.G., et al. [1996.rus] 50-6847
- Effect of breakup of melting snowflakes on the resulting size distribution of raindrops. Fujiyoshi, Y., et al. [1996.eng] 50-6724
- Effects of avalanche snow redistribution on summer streamflow variations. De Sclay, F.A., [1996.eng] 50-4333
- Effects of moraine-bank sediment budgets on valley glacier stability. Hunter, L.E., et al. [1996.eng] 50-6263
- Ejection velocity of ice impact fragments. Arakawa, M., et al. [1995.eng] 50-2153
- Estimation of freeze drying transport coefficients. Lombraña, J.I., et al. [1996.eng] 50-5692
- Experimental closure of the heat and mass transfer theory of spheroidal hailstones. Greenan, B.J.W., et al. [1995.eng] 50-2117
- Experimental design for laboratory simulation of periglacial solifluction processes. Harris, C., et al. [1996.eng] 50-5778
- Experimental study of freezing of binary solutions. Zampino, M.A., et al. [1991.eng] 50-1243
- Freeze concentration by layer crystallization. Fiesland, O., [1995.eng] 50-5943
- Geometry of heat and mass transfer in dry snow: a review of theory and experiment. Arons, E.M., et al. [1995.eng] 50-1401
- Heterogeneous interactions of aerosol radicals on simulated cloud ice surface. Cooper, P.L., et al. [1996.eng] 50-4142
- Ice age terrestrial carbon changes revisited. Crowley, T.J., [1995.eng] 50-1148
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1996.eng] 50-5161
- Interaction of katabatic winds and the formation of blue-ice areas in East Antarctica. Van den Broeke, M.R., et al. [1995.eng] 50-459
- Ion flux through a shallow snowpack: effects of initial conditions and melt sequences. Davis, R.E., et al. [1995.eng] 50-2405
- Mass dependence of energy loss in collisions of icy spheres: an experimental study. Dille, J., et al. [1996.eng] 50-5196
- Mass exchange between meltwater streams and proglacial deposits. Holmlund, P., et al. [1996.eng] 50-6241
- Migration of chemical elements in frozen rocks. Chuvilin, E.M., et al. [1996.rus] 50-6820
- Mode coupling in critical phenomena and supercooled liquids. Kawasaki, K., [1995.eng] 50-1219
- Model of arctic air pollution by sulfur aerosols. Dastoor, A.P., et al. [1996.eng] 50-5450
- Moraine formation from subglacial frozen sedimentation. Krüger, J., [1996.eng] 50-5830
- New look at the melting layer. Drummond, F.J., et al. [1996.eng] 50-4145
- Numerical models of heat transfer during food freezing. Tocci, A.M., et al. [1995.eng] 50-596
- Ocean bottom trenching by an Icelandic glacier. Björnsdóttir, H., [1996.eng] 50-6252
- Paleoclimatic change from Lake Baikal sediments. Edgington, D.N., et al. [1996.eng] 50-6633
- Periodic variations in air-water gas exchange of Arctic Ocean insecticide pollutants. Janunen, L.M., et al. [1995.eng] 50-1862
- Pleistocene-Holocene fluxes are not the Earth's norm. Hay, W.W., [1994.eng] 50-1237
- Possible high ice particle production during graupel-graupel collisions. Takahashi, T., et al. [1995.eng] 50-3005
- Profiles of particle characteristics in blowing snow. Naaim, M., et al. [1995.eng] 50-1062
- Review of papers from previous conferences on heat and mass transfer in freezing soils. Fukuda, M., et al. [1992.eng] 50-24
- Review of solution methods to the problem of heat-mass transfer during freezing and thawing. Komarov, I.A., [1996.rus] 50-6816
- Satellite regolith frozen ground collapse as solar system geological paradigm. Moore, J.M., et al. [1996.eng] 50-6588
- Sedimentology and geomorphology of fjords. Syvitski, J.P.M., et al. [1995.eng] 50-1116
- Selected aspects of the physical oceanography and particle fluxes in fjords of northern Norway. Wassmann, P., et al. [1996.eng] 50-5571
- Simulation of wet-snow accretion by axial growth on a transmission line conductor. Poots, G., et al. [1995.eng] 50-2349
- Soil-to-snow movement of synthetic organic compounds in natural snowpack. Hogan, A., et al. [1995.eng] 50-2403
- Sulfide oxidation products in the antarctic atmosphere. Davison, B., et al. [1996.eng] 50-5615
- Supraglacial debris transport over time. Whalley, W.B., et al. [1996.eng] 50-6258
- Transport of chemical species from the northern polar vortex. Norton, W.A., et al. [1995.eng] 50-5917
- Use of fractal parameters to detect active layer heat transfer. Hinkel, K.M., et al. [1995.eng] 50-1138
- Viscosity of fluidized snow. Nishimura, K., [1996.eng] 50-5465
- Volcanic ash variations in the antarctic stratosphere. Anderson, J., et al. [1996.eng] 50-5613
- Yearly cycle of lower tropospheric ozone at the Arctic Circle. Rummukainen, M., et al. [1996.eng] 50-5614
- See [also]: Permafrost mass transfer
- Materials**
- Matériel delivery to A-SSP Station. DenHartog, S.L., et al. [1995.eng] 50-1195
- Simulation of foam protection of plants against frost. Kravitskiy, B., et al. [1995.eng] 50-961
- Winter maintenance and chemical shortages. Pagan, A.R., [1995.eng] 50-1558
- See [also]: Construction materials; Porous materials
- Mathematical analysis** See [also]: Analysis (mathematics)
- Mathematical models**
- 1991 ice jamming along the Saint John River: a case study. Beltaos, S., et al. [1996.eng] 50-5809
- A hydrochemical model for seasonally snow-covered alpine watersheds. Wolford, R.A., et al. [1996.eng] 50-4237
- Acoustic response to variations of water and ice characteristics. Gavrilov, A.N., et al. [1995.eng] 50-5736
- Active layer thermal diffusivity from finite difference mathematical methods. Zhang, T., et al. [1995.eng] 50-1141
- Adhesive properties of gas hydrates and ice. Bondarev, E.A., et al. [1996.eng] 50-6496
- Advances in Qinghai-Xizang Plateau meteorology. Zhang, J.J., et al. [1988.chi] 50-2179
- Algorithm modeling stress gradients in grounded glaciers. Blatter, H., [1995.eng] 50-454
- Alleviating the effects of frost action on gas distribution and regulator station piping. Arnold, J.M., et al. [1985.eng] 50-4363
- Analysis of ice-formation in a stenotic tube. Suh, J.S., et al. [1996.eng] 50-6460
- Analysis of the transient response of a thermal energy storage unit. Kuznetsov, A.V., [1996.eng] 50-6472
- Analysis of thermal stresses around a cryosurgical probe. Rabin, Y., et al. [1996.eng] 50-5814
- Analytical modeling of glacier dynamics. Bahr, D.B., [1996.eng] 50-5023

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- Analytical modelling of heat transfer from a single slab in freezing. Dincer, I., [1995,eng] 50-3818
- Analytical study of frost nucleation and growth during the crystal growth period. Sahin, A.Z., [1995,eng] 50-44
- Application of a heat balance method to long-term snowmelt runoff analysis. Kurashima, E., et al., [1996,jpn] 50-4927
- Application of a surface hydrology scheme to a watershed. Leung, L.R., et al., [1996,eng] 50-6056
- Approaches to mathematical modeling of the steppe-tundra paleoclimate. Gal-Chen, T., [1982,eng] 50-3379
- Arctic and antarctic ozone depletion inferred from radiometric soundings. MacKenzie, I.A., et al., [1996,eng] 50-5768
- ARNO rainfall-runoff model. Todini, E., [1996,eng] 50-3729
- Asian glacier ice flow and mass continuity. Cherkasov, P.A., et al., [1996,eng] 50-6057
- Assessment of global climate model simulations of arctic air temperatures. Tao, X., et al., [1996,eng] 50-5532
- Asymptotic stability of the viscous-plastic sea ice rheology. Schulkes, R.M.S.M., [1996,eng] 50-4534
- Augmentation or suppression of ice accumulation on a cold flat-plate in water-flow channel. Hirata, T., et al., [1996,eng] 50-6462
- Automated nowcasting model of road surface temperature and state for winter road maintenance. Shao, J., et al., [1996,eng] 50-6571
- Automatic ice motion retrieval from ERS-1 SAR images using the optical flow method. Sun, Y., [1996,eng] 50-5824
- Axial loading of foundations embedded in frozen soils. Selvadurai, A.P.S., et al., [1995,eng] 50-173
- Backscattering radar measurements of spherical ice cloud crystals. Prodi, F., et al., [1996,eng] 50-4502
- Backscattering through the melting layer of precipitation. Russchenberg, H.W.J., et al., [1996,eng] 50-2699
- Basal friction of ice stream E, West Antarctica. MacAyeal, D.R., et al., [1995,eng] 50-448
- Basic processes determining the rheological behavior of plastic-frozen ground under stress. Ukhov, S.B., et al., [1996,rus] 50-6827
- Biogas as an alternative energy savings. Elokhin, V.R., [1992,rus] 50-705
- Biomass diversity in arctic and alpine ecosystems. Pastor, J., [1995,eng] 50-3904
- Brief review of physical and mathematical models of frost heave. Holden, J.T., [1981,eng] 50-2137
- Cable galloping model for thin ice accretions. McComber, P., et al., [1996,eng] 50-5381
- Cable twisting due to atmospheric icing. McComber, P., et al., [1995,eng] 50-205
- Calculating complex forms of pipeline icing. Popov, I.U.A., et al., [1995,rus] 50-3441
- Calculating method of frost heaving reaction in seasonal frozen ground region. Zhou, Y.C., [1989,chi] 50-1366
- Calculating the hydrography of glacier runoff considering the travel time. Pertsiger, F.L., [1991,rus] 50-15
- Calculating the interaction of processes in the free troposphere and boundary layer. Baranov, G.I., et al., [1990,rus] 50-319
- Calculating vertical ice loads on vertical structures at variable water levels. Nishihata, A., et al., [1996,jpn] 50-5879
- Calculation of frozen wall growth during artificial freezing sinking. Li, S.X., [1995,eng] 50-4521
- Calculation of spectral albedo for a melt pond. Makshtas, A., et al., [1995,eng] 50-2066
- Calculation of the amount of salt required to melt ice and snow on highways. Schneider, T.R., [1962,eng] 50-3881
- Capillary bonding of wet surfaces and adhesion of skis to ice. Colbeck, S.C., [1996,eng] 50-6038
- Capsule-type thermal energy storage system. Ishikawa, M., et al., [1996,eng] 50-6446
- Case for cold-base continental ice sheets—a transient thermal model. Heine, J.T., et al., [1996,eng] 50-4890
- Centrifuge modeling and numerical simulation of ice scour. Yang, Q.S., et al., [1996,eng] 50-5936
- Climate and ice-snow cover. Peng, G.B., et al., [1992,chi] 50-1168
- Climate change and GCM simulation of water resources from mountain snowpack. McGinnis, D.L., [1994,eng] 50-6690
- Climate change and snow-cover duration in the Australian Alps. Whetton, P.H., et al., [1996,eng] 50-4751
- Climate of western Siberia: past and future. Bukreeva, G.F., et al., [1995,eng] 50-6583
- Climate simulations with a global atmosphere-ocean model. pt.1. Lunkeit, F., et al., [1996,eng] 50-4090
- Climatic warming and the degradation of warm permafrost. Lunardini, V.J., [1996,eng] 50-6482
- Coherent observation operators for surface data assimilation with application to snow depth. Urban, B., [1996,eng] 50-3008
- Comment on "Equation of state for extrapolation of high-pressure shock Hugoniot data". Johnson, J.B., [1995,eng] 50-5592
- Comment on "Surface layers on ice" by C.A. Knight. Baker, M.B., et al., [1996,eng] 50-6059
- Comments and reply on paper of Venkatesh et al. Marko, J.R., et al., [1995,eng] 50-601
- Comparison of geostatistical methodologies used to estimate snow water equivalent. Carroll, S.S., et al., [1996,eng] 50-4409
- Comparison of monthly sea ice simulation models. Wu, X.R., et al., [1996,eng] 50-5451
- Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar. Zeng, X.X., et al., [1995,eng] 50-1804
- Competition of precipitation particles in a model with parameterized cloud microphysics. Wacker, U., [1995,eng] 50-413
- Compressive failure of columnar saline ice under multiaxial loading. Schulson, E.M., [1995,eng] 50-6282
- Computational modelling of brittle ice fragmentation. Tuhkuri, J., [1996,eng] 50-5942
- Computer simulation of arctic shelf freezing during the Pleistocene. Sigunov, I.U.A., et al., [1995,eng] 50-6582
- Computer simulation of heat conduction in freezing and thawing soils. Hashemi, H.T., et al., [1996,eng] 50-4605
- Conduction in convecting and radiating fins and fin assemblies. Aziz, A., et al., [1995,eng] 50-2455
- Consistent treatment of the evaporation of rain and snow for use in large-scale models. Gregory, D., [1995,eng] 50-353
- Constitutive equations and fracture models for sea ice. Rodin, G.J., et al., [1995,eng] 50-6292
- Contact force and damage evolution in a moving uniaxial ice bar. Shin, J.G., et al., [1990,eng] 50-99
- Contrast between natural and simulated snowdrift experiments. Naaim-Bouvet, F., [1995,eng] 50-1063
- Controlled melting in a thermal storage phase change material. Prasad, A., et al., [1996,eng] 50-6448
- Convection and freezing around a cylinder in a saturated medium. Okada, M., et al., [1996,eng] 50-6455
- Convection induced polynyas during the freezing of antarctic seawater. Hadji, L., [1996,eng] 50-6452
- Cool thermal discharges from ice melting with specified heat fluxes on the boundary. Yeh, H.M., et al., [1996,eng] 50-5521
- Cooperativity and hydrogen bond network lifetime in liquid water. Lamanna, R., et al., [1995,eng] 50-5714
- Correction to paper by Grant et al. [1996,eng] 50-5968
- Crack nucleation in saline ice with interacting inhomogeneities. Wu, M.S., et al., [1995,eng] 50-1142
- Creep and creep strength of frozen soil. Ma, W., et al., [1995,eng] 50-4519
- Creep and yield model of frozen soil under triaxial compression. Fish, A.M., [1995,eng] 50-172
- Creep of ice crystals and the measurement of strain: some technical considerations. Barrette, P.D., et al., [1995,eng] 50-2962
- Critical height of road embankments in permafrost. An, W.D., et al., [1989,chi] 50-1375
- Damming James Bay: I. Potential impacts on coastal climate and the water balance. Rouse, W.R., et al., [1992,eng] 50-5030
- Decadal oscillations driven by the annual cycle in a zonally-averaged coupled ocean-ice model. Yang, J.Y., et al., [1996,eng] 50-3069
- Degree-day glacier mass balance modelling. Jóhannesson, T., et al., [1995,eng] 50-455
- Dense water formation on arctic shelves. Gawarkiewicz, G., et al., [1996,eng] 50-6671
- Depth hoar influence on permafrost thermal regime. Zhang, T., et al., [1996,eng] 50-6585
- Developing methods for forecasting seismic effects under cryolithozone conditions. Dzhuirik, V.I., et al., [1996,rus] 50-6834
- Development of a quantitative model of frost heave. Holden, J.T., [1977,eng] 50-2322
- Development of a regional climate model of the western Arctic. Lynch, A.H., et al., [1995,eng] 50-597
- Dielectric moisture measurement of frozen ground. Frolov, A.D., [1996,rus] 50-6835
- Differences in the duration of snow cover on Scottish ski-slopes between mild and cold winters. Harrison, S.J., [1993,eng] 50-3014
- Direct contact melting process on a curved wall coated with a porous layer. Oka, M., et al., [1996,eng] 50-6451
- Disposition of solar radiation in sea ice and the upper ocean. Ebert, E.E., et al., [1995,eng] 50-572
- Doppler electromagnetic analysis of ice cover gravity wave oscillations. Vdovichenko, S.P., [1996,eng] 50-5703
- Drifting ice forces on offshore piles. Afanas'ev, V.P., et al., [1990,eng] 50-98
- Dry-flowing avalanche run-up and run-out. McClung, D.M., et al., [1995,eng] 50-456
- DTR and cloudcover in the Nordic countries: observed trends and estimates for the future. Kaas, E., et al., [1994,eng] 50-3027
- Dynamic impact between a viscoelastic ice floe and a rigid structure. Morland, L.W., [1996,eng] 50-3824
- Dynamic model of the pelagic ecosystem of the Kara Sea. Lebedeva, L.P., et al., [1995,eng] 50-3540
- Dynamic response of high arctic glaciers to global warming and their contribution to sea-level rise. Lam, J.K.W., et al., [1995,eng] 50-6618
- Dynamics of heat exchange between sediment and water in a lake. Fang, X., et al., [1996,eng] 50-5970
- Dynamics of ice flow. Menzies, J., [1995,eng] 50-3585
- Dynamics of river ice jam release. Shen, H.T., et al., [1996,eng] 50-6156
- Dynamics of the Antarctic Circumpolar Current. Ivchenko, V.O., et al., [1996,eng] 50-5157
- Earthquake response offshore structures surrounded by ice floes (Part 11). Okamoto, N., et al., [1996,jpn] 50-5882
- Ecological problems in the cryogenic-hydrogeological conditions in northwestern Siberia. Petrova, R.G., et al., [1996,rus] 50-6847
- Effect of climate change on hydrologic regime of two climatologically different watersheds. Loukas, A., et al., [1996,eng] 50-6100
- Effect of dynamical mixing in a simple model of the ozone hole. Edouard, S., et al., [1996,eng] 50-6332
- Effect of sea ice distribution on atmospheric circulation models. Grötzer, A., et al., [1996,eng] 50-5864
- Effect of sea ice surface features on radar backscatter. Ulander, L.M.H., et al., [1995,eng] 50-1813
- Effects of floating ice cracks on propagation of flexural waves. Bukatov, A.E., et al., [1996,eng] 50-3410
- Effects of global warming on building construction on permafrost. Khristalev, L.N., [1996,eng] 50-5861
- Effects of individual ridging events on the ice thickness distribution in the arctic ice pack. Hopkins, M.A., [1996,eng] 50-3828
- Effects of localized deformation on melting processes in ice. Wilson, C.J.L., et al., [1996,eng] 50-5470
- Effects of the variation in suction and heat flow during the frost heaving process. Jones, R.H., [1977,eng] 50-2323
- Elasto-delayed-elastic simulation of short-term deflection of fresh-water ice covers. Sinha, N.K., et al., [1996,eng] 50-5474
- Electrical properties of pure and doped ice Ih. Taubenberger, R., [1982,ger] 50-5761
- Electrical sounding of the cryolithozone in the Arctic using transient processes. Nim, I.U.A., [1989,rus] 50-2303
- Energy balance model for a small valley glacier, pt.1. Arnold, N.S., et al., [1996,eng] 50-4893
- Energy complexes in the Kola Peninsula based on small hydroelectric stations. Marchuk, S.A., et al., [1992,rus] 50-709
- Energy—water—mass balance and hydrological discharge. Kang, E.S., [1994,eng] 50-5576
- Energy-balance model of lake-ice evolution. Liston, G.E., et al., [1995,eng] 50-457
- Establishment of a model for predicting unfrozen water content in saline frozen soils. Xu, X.Z., et al., [1995,eng] 50-4517
- Estimating reserves of placer deposits. Tomskaya, T.N., [1992,rus] 50-797
- Estimation of aerosol deposition to a snow surface. Sharma, M., et al., [1995,eng] 50-3011
- Estimation of biomass and other characteristics of boreal forest. Häme, T., et al., [1994,eng] 50-3228
- Estimation of burial depths for pipelines in arctic regions. Chouinard, L.E., [1995,eng] 50-1839
- Estimation of mean velocity for flow under ice cover. Teal, M.J., et al., [1995,eng] 50-4040
- Estimation of snowmelt volume using air temperature and wind speed. Hasebe, M., et al., [1995,eng] 50-1958
- Estimation of unsaturated permeability from suction curves. Thompson, J.D., [1981,eng] 50-2144
- Evaluating snow cover depth in a mountain basin from satellite information. Pichugina, E.L., et al., [1991,rus] 50-4
- Evaluation of flow resistance in ice-covered channels. Brailneau, F., et al., [1996,eng] 50-6157
- Evaluation of ionospheric inhomogeneities using reverse-oblique sounding. Vovk, V.I.A., [1991,rus] 50-2265
- Evaluation of surface radiative flux parameterizations for use in sea ice models. Key, J.R., et al., [1996,eng] 50-3451
- Evaporation from a small lake in the continental Arctic using multiple methods. Gibson, J.J., et al., [1994,eng] 50-5694
- Experimental closure of the heat and mass transfer theory of spheroidal hailstones. Greenan, B.J.W., et al., [1995,eng] 50-2117
- Experimental verification of a pendant ice formation model. Szilder, K., et al., [1995,eng] 50-206
- Explanation of the density maximum in water. Cho, C.H., et al., [1996,eng] 50-4346
- Exploring the behaviour of microwaves in a snowpack using modelling techniques. Leconte, R., [1996,eng] 50-5539
- Field and laboratory experiments and modeling of the constitutive behavior of sea ice. Cole, D.M., [1995,eng] 50-6280
- Field measurements and model calibration in avalanche dynamics. Nettuno, L., [1995,eng] 50-1057
- Field-tested model for freeze protection of multiphase pipelines in arctic operations. Eager, K., [1991,eng] 50-1769
- Fine resolution numerical model of the Iceland-Farø front with open boundary conditions. Griffiths, C., [1995,eng] 50-571
- Finite element modelling of transmission line galloping. Desai, Y.M., et al., [1995,eng] 50-494
- Flame spread over fuel-spilled and/or snow-covered asphalt road. Ishida, H., et al., [1996,eng] 50-4230
- Flow and freezing boundary conditions for snow-melt infiltration into a frozen soil. Tao, Y.X., et al., [1993,eng] 50-4550
- Forecast of rain erosion of tundra soils on the Yamal Peninsula. Grigor'ev, V.I.A., et al., [1996,eng] 50-5448
- Forecasting avalanche risks in France—assessment and perspective. Pahaut, E., et al., [1995,fre] 50-4873
- Forecasting earth surface temperature for the optimal application of frost protection methods. Krasovitski, B., et al., [1996,eng] 50-5021
- Forecasting the thermal regime of thin-walled moored structures under Arctic conditions. Shkola, A.V., et al., [1992,rus] 50-757
- Formation of ice layers in a straight walled, rectangular diffuser. Neumann, S.O., et al., [1996,eng] 50-6469
- Forward coupled-mode propagation modeling for coastal acoustic tomography. Chiu, C.S., et al., [1996,eng] 50-4589

Mathematical models

- Frazil evolution in channels. Hammar, L., et al. [1995,eng] 50-647
- Free vibrations of a snowboard. Sakata, T., et al. [1996,eng] 50-4568
- Freezing and cryogenic heave of finely dispersed soil. Buldovich, S.N., [1996,rus] 50-6815
- Freezing of liquids in a laminar flow in a heat flux cooled circular duct. Prasad, A., et al. [1996,eng] 50-6463
- Freshwater spongy spray icing model with surficial structure. Blackmore, R.Z., et al. [1996,eng] 50-5335
- Frost damage to northern trees during climatic warming. Hänninen, H., [1996,eng] 50-6631
- Frost heave due to ice lens formation in freezing soils. 1. Theory and verification. Sheng, D., et al. [1995,eng] 50-742
- Frost heave due to ice lens formation in freezing soils. 2. Field application. Sheng, D., et al. [1995,eng] 50-743
- Frozen soil-structure interfaces. Ladanyi, B., [1995,eng] 50-3806
- Frozen startup in heat pipes. Faghri, A., [1995,eng] 50-3517
- Fundamentals of ice lens formation. Takagi, S., [1975,eng] 50-3390
- Further discussion on simulation of the modern arctic climate by the NCAR CCM1. Williamson, D.L., et al. [1996,eng] 50-6573
- GCM response to an antarctic polynya. Glowienka-Hense, R., [1995,eng] 50-3100
- Gelifluction rates as global change indicators. Kirkby, M.J., [1995,eng] 50-4195
- Geocryological reconstructions for the central Russian Plain. Ershov, E.D., et al. [1996,rus] 50-6354
- Geoelectromagnetic monitoring of water discharge in the Bering Strait. Shneer, V.S., et al. [1995,eng] 50-3831
- Glacial erosion as a consequence of subglacial sediment deformation. Boulton, G.S., [1996,eng] 50-4891
- Glacial influence on offshore Norwegian sediment properties. Sæmø, J., et al. [1996,eng] 50-5320
- Glacial isostasy and lateral mantle viscosity. Sabadini, R., et al. [1989,eng] 50-4710
- Glacial quarrying: a simple theoretical model. Hallet, B., [1996,eng] 50-6233
- Glacial rebound of the British Isles—III: constraints on mantle viscosity. Lambeck, K., et al. [1996,eng] 50-4737
- Gravimetric investigation of permafrost on the Blockglaciers Murtel-Corvatsch (Oberengadin). Klingele, E., et al. [1993,ger] 50-4909
- Ground penetrating radar detection of a buried metallic object. O'Neill, K., et al. [1996,eng] 50-4038
- Groundwater flow and heat conduction in soil around a freeze pipe. Hashemi, H.T., et al. [1996,eng] 50-4606
- Guidebook on debris flow control. Zhou, B.F., ed., et al. [1991,chi] 50-5008
- Gulf Canada probabilistic ice load model: operation and parametric sensitivity study. Watson, D.A., et al. [1995,eng] 50-1413
- Hailstorms in Switzerland: left movers, right movers, and false hooks. Houze, R.A., Jr., et al. [1993,eng] 50-1444
- Heat balance study of melting coefficient. Yamazaki, T., [1995,jpn] 50-1172
- Heat budget of a midlatitude squall line and implications for potential vorticity production. Braun, S.A., et al. [1996,eng] 50-5475
- Heat budgets of the Arctic Ocean and Nordic Seas. Simonsen, K., et al. [1996,eng] 50-4298
- Heat transfer and convection in an enclosure with a heat-conducting body. Oh, J.Y., et al. [1996,eng] 50-6473
- Heat transfer and frost-thaw penetration in soil surrounding an inclusion of sand. Peck, L., et al. [1995,eng] 50-726
- Heat transfer during a water jet impinging on the underside of ice. Bhansali, A.P., [1994,eng] 50-678
- Heat transfer in an ice-water saturated porous medium. Zhang, X.L., [1993,eng] 50-5782
- Heat transfer in staggered and in-line tube bank designs for ice making. Intemann, P.A., et al. [1996,eng] 50-6447
- Heuristic model for sea level rise due to the melting of small glaciers. Wigley, T.M.L., et al. [1995,eng] 50-1215
- Hybrid system of latent heat storage and spray flash evaporation. Miyake, O., et al. [1996,eng] 50-6444
- Hydraulic run-away: a mechanism for thermally regulated surges of ice sheets. Fowler, A.C., et al. [1995,eng] 50-1876
- Hydrologic cycle parameterization for energy balance climate models. Chu, S.P., et al. [1995,eng] 50-587
- Hydrological modelling of watershed snowmelt runoff. Bathurst, J.C., et al. [1996,eng] 50-3728
- Ice accretion in freezing rain. Jones, K.F., [1996,eng] 50-2245
- Ice ages and the Milankovitch theory: a study of interactive climate feedback mechanisms. Cess, R.D., et al. [1979,eng] 50-2976
- Ice cloud microphysics in a general circulation model, pt.1. Fowler, L.D., et al. [1996,eng] 50-5015
- Ice cloud microphysics in a general circulation model, pt.2. Fowler, L.D., et al. [1996,eng] 50-5016
- Ice cloud microphysics in a general circulation model, pt.3. Fowler, L.D., et al. [1996,eng] 50-5017
- Ice fracture and spalling in ice-structure interaction. Zou, B., et al. [1996,eng] 50-5473
- Ice sheet model test via glacial geological research in West Greenland. Van Tatenhove, F.G.M., et al. [1995,eng] 50-2013
- Ice streams in Antarctica: transverse instability of gravity driven flow. Minale, M., et al. [1996,eng] 50-3722

- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., [1995,eng] 50-2480
- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., et al. [1995,eng] 50-4039
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995,eng] 50-195
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995,eng] 50-2942
- Ice-structure interaction under slippage boundary conditions. Matskevich, D.G., [1995,eng] 50-2936
- Impact of glaciation on the groundwater regime of northwest Europe. Boulton, G.S., et al. [1996,eng] 50-5326
- Impingement of surface waves on the edge of compressed ice. Bukatov, A.E., et al. [1995,eng] 50-4214
- Incorporating airborne data into the spatial model used to estimate snow water equivalent. Carroll, S.S., et al. [1993,eng] 50-5146
- Inertial currents in the Beaufort Sea: observations of response to wind and shear. Merrifield, M.A., et al. [1996,eng] 50-4299
- Infiltration of snowmelt and heat transfer into frozen soil. Zhao, L.T., et al. [1996,eng] 50-6480
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1996,eng] 50-5161
- Initial results from small-scale frost heave experiments in a centrifuge. Ketcham, S.A., et al. [1995,eng] 50-728
- Instability trends of inertially coupled galloping, part 1: initiation. Yu, P., et al. [1995,eng] 50-1053
- Instability trends of inertially coupled galloping, part 2: periodic variations. Yu, P., et al. [1995,eng] 50-1054
- Integrated approach to modelling hydrology and water quality in glaciated catchments. Richards, K.S., et al. [1996,eng] 50-6083
- Interaction of katabatic winds and the formation of blue-ice areas in East Antarctica. Van den Broeke, M.R., et al. [1995,eng] 50-459
- Intercomparison of snow retrieval algorithms by means of spaceborne microwave radiometry. Roti, H., et al. [1995,eng] 50-4176
- Introductory analysis of boundary-layer development on de/anti-icing fluid. Perron, E., et al. [1996,eng] 50-4217
- Investigation of the dynamic loading of ice. Chizhov, V.E., [1996,eng] 50-5269
- Investigation of the general circulation of the Arctic Ocean using an isopycnal model. Holland, D.M., et al. [1996,eng] 50-3822
- Is erosion by deforming subglacial sediments significant? (Toward till continuity). Cuffey, K., et al. [1996,eng] 50-6235
- JAMSTEC coupled model of arctic sea-ice and ocean. Kakuta, S., et al. [1996,eng] 50-4478
- Laboratory exercise introducing glacial geomorphology. Harbor, J.M., et al. [1995,eng] 50-3861
- Land surface studies and atmospheric effects by satellite microwave radiometry. Aschbacher, J., [1990,eng] 50-6691
- Large eddy simulation of the turbulent flow in a marine convective boundary layer with snow. Rao, G.S., et al. [1996,eng] 50-3683
- Large scale motion and temperature distributions in land based ice shields—a review. Hunter, K., et al. [1996,eng] 50-6430
- Large strain finite-element analysis of snow. Meschke, G., et al. [1996,eng] 50-5923
- Latent heat thermal energy storage system using spherical capsules. Saitoh, T., et al. [1996,eng] 50-6443
- Latitude as a factor in the calculation of primary production. Platt, T., et al. [1995,eng] 50-4129
- Least average residual algorithm (LARA) for tracking the motion of arctic sea ice. Peddada, S.D., et al. [1996,eng] 50-5686
- Light scattering by absorbing hexagonal ice crystals in cirrus clouds. Zhang, J.Y., et al. [1995,eng] 50-984
- Light scattering effects on cloud thickness photometry. Zege, E.P., et al. [1994,eng] 50-2710
- Light-scattering spectrum of supercooled liquids. Latz, A., et al. [1996,eng] 50-5102
- Limiting resolution of ice-sheet elevations derived from pulse-limited satellite altimetry. Wingham, D.J., [1995,eng] 50-461
- Limits on the areal extent of the Barents Sea ice sheet in Late Weichselian time. Lambeck, K., [1996,eng] 50-5307
- Low-order model of the Heinrich event cycle. MacAyeal, D.R., [1993,eng] 50-2868
- Lumped-element model for subglacial transport of solute and suspended sediment. Clarke, G.K.C., [1996,eng] 50-6254
- Maintenance of the last great ice sheets: a UGAMP GCM study. Hall, N.M.J., et al. [1996,eng] 50-5531
- Mathematical model and the Takashi model of soil freezing. Nakano, Y., [1996,eng] 50-6485
- Mathematical model for calculating thermal conductivity of snow subject to metamorphism. Gavril'ev, R.I., [1996,eng] 50-6497
- Mathematical model of a freezing wall with freezing pipes. Gao, M., [1989,chi] 50-1400
- Mathematical model of frost heave and thaw settlement in pavements—draft. Guymon, G.L., et al. [1986,eng] 50-4348
- Mathematical model of pollution vectors in the arctic basin. Krapivin, V.F., et al. [1996,eng] 50-3412
- Mathematical model of spray ice island creep. Thiel, D.T., et al. [1991,eng] 50-1720
- Mathematical model of synoptic variation in drifting ice cover due to atmospheric factors. Zuev, A.N., [1992,rus] 50-1264

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- Mathematical model of the freezing-thawing of saline frozen soil. Vasil'ev, V.I., et al. [1996,eng] 50-5268
- Mathematical model to correlate frost heave of pavements with laboratory predictions. Final report. Berg, R.L., et al. [1996,eng] 50-3333
- Mathematical models of ecosystem carbon cycle feedback effects. Ryzhova, I.M., [1996,eng] 50-5087
- Maximum flow rate of floating snow in an open channel. Fukushima, Y., [1995,jpn] 50-3508
- Measuring geophysical parameters of the Greenland ice sheet using airborne radar altimetry. Ferraro, E.J., et al. [1995,eng] 50-1881
- Mechanical properties of high ice content ground as a composite material. Gerasimov, A.S., et al. [1989,rus] 50-2257
- Mechanics of marine screw propeller ice cutting processes. Veitch, B., [1995,eng] 50-4154
- Mechanism of deterioration of concrete under severe environment. Podval'nyi, A.M., [1995,eng] 50-2686
- Mechanisms of ice gouging. Kioka, S., et al. [1995,eng] 50-194
- Melting driven thermohaline convection. Bénard, C., et al. [1996,eng] 50-3611
- Melting inside a cylinder filled with phase change material. Back, Y.R., et al. [1996,eng] 50-6457
- Meltwater event in the North Atlantic during last glacial maximum. Seidov, D., et al. [1996,eng] 50-6217
- Method of estimating sea ice flexural strength based on hydrometeorological data. Gavril'ev, V.P., et al. [1995,eng] 50-214
- Methods for calculating the temperature field of a freezing wall. Fu, L.D., et al. [1989,chi] 50-1399
- Micromechanical study on deterioration of concrete due to freezing and thawing. Hori, M., et al. [1995,eng] 50-2684
- Microstructure and thermal conductivity of a model snow cover. Sato, A., et al. [1995,jpn] 50-987
- Microwave emission from density-stratified antarctic firn at 6 cm wavelength. West, R.D., et al. [1996,eng] 50-4892
- Migration of moisture during the freezing of porous media. Gorelik, I.A.B., et al. [1989,rus] 50-2256
- Mixed-phase cloud scheme based on a single prognostic equation. Tremblay, A., et al. [1996,eng] 50-6665
- Model for calculating the heat transfer coefficient for sedimentary rocks. Gavril'ev, R.I., [1996,rus] 50-6818
- Model for measuring PAH deposits on snow. Sharma, M., et al. [1995,eng] 50-3037
- Model for spraying and three-dimensional icing on a stern trawler. Chung, K.K., et al. [1995,eng] 50-2955
- Model of arctic air pollution by sulfur aerosols. Dastoor, A.P., et al. [1996,eng] 50-5450
- Model of arctic radiation fog trace gas processing. Bergin, M.H., et al. [1996,eng] 50-5764
- Model of avalanche deceleration at a change to a more gradual slope. Bojo, C., et al. [1996,jpn] 50-6730
- Model of cloudiness evolution in cirrus cloud masses. Khvorostanov, V.I., [1995,eng] 50-4749
- Model of ductile behavior of columnar grained sea ice. Zhan, C., et al. [1996,eng] 50-5184
- Model of effects of global warming of water balance of subarctic forest ecosystems. Kellomäki, S., et al. [1996,eng] 50-4750
- Model of Greenland and antarctic ice sheet thickness variations. Verbitskii, M.I.A., et al. [1995,eng] 50-642
- Model of Northern Hemisphere glaciation. Dong, B.W., et al. [1995,eng] 50-1328
- Model of powder snow avalanches. Gauer, P., [1995,eng] 50-4648
- Model of shoreward movement of grounded lake ice. Sasaki, T., et al. [1995,eng] 50-3329
- Model of the glass transition. Mansfield, M.L., [1995,eng] 50-1445
- Model study of polar stratospheric clouds, pt.1. De Ridder, A., et al. [1996,eng] 50-6638
- Model study of polar stratospheric clouds, pt.2. Tie, X.X., et al. [1996,eng] 50-6639
- Model test of ground temperature variation of embankment. Ye, B.Y., et al. [1989,chi] 50-1396
- Model to retrieve precipitation rate profiles from airborne radar and radiometer measurements. Weinman, J.A., et al. [1992,eng] 50-3571
- Modeling and observational study of East Antarctic surface mass balance. Connolley, W.M., et al. [1996,eng] 50-3017
- Modeling dry deposition of dust along the Dalton Highway. Lamprecht, R., et al. [1996,eng] 50-4853
- Modeling measurement errors when estimating snow water equivalent. Carroll, S.S., [1995,eng] 50-2605
- Modeling of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996,eng] 50-6715
- Modeling power line icing in freezing precipitation. Makkonen, L., [1996,eng] 50-5362
- Modeling the influence of ice on sea level variations in the Baltic Sea. Zhang, Z.H., et al. [1995,eng] 50-6758
- Modeling the surface heat flux response to long-lived SST anomalies in the North Atlantic. Power, S.B., et al. [1995,eng] 50-639
- Modelling and calculating the thermoplastic state of frozen ground. Dubina, M.M., et al. [1991,rus] 50-5054
- Modelling interannual sea ice variability in the Gulf of St. Lawrence. DeTracey, B., [1993,eng] 50-375
- Modelling of continuous crushing of ice in front of offshore structures. Brown, T.G., et al. [1995,eng] 50-575
- Modelling of frost formation in rotary heat exchangers. Bileau, S., et al. [1996,eng] 50-6477

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Mathematical models

- Modelling of ice formation processes in freezing soils. Gorelik, I.A.B., et al. [1996.rus] 50-6813
- Models of ice-structure contact for engineering applications. Riska, K., [1995.eng] 50-3808
- Moisture-based model for calculating daily changes in seasonal soil frost depth. Ryerson, C.C., [1979.eng] 50-3713
- Molecular dynamics simulation studies on ice: interatomic models. Kawamura, K., [1996.jpn] 50-6733
- Monte Carlo simulation of the glass transition in polymer melts: an application of MCT. Baschnagel, J., [1995.eng] 50-1229
- Multiaxial creep of saline ice. Golubov, A.I., et al. [1990.eng] 50-102
- Natural convection for the melting of ice in porous media in a rectangular enclosure. Chang, W.J., et al. [1996.eng] 50-4533
- New flow law of ice-sheet ice. Azuma, N., [1995.jpn] 50-991
- New method for predicting the long-term strength of frozen soils. Roman, L.T., et al. [1992.eng] 50-27
- Nonlinear creep of artificially frozen Emuscher marl. Klein, J., [1978.ger] 50-3852
- Numerical analysis of atmospheric water cycle over Antarctica. Bromwich, D.H., et al. [1995.eng] 50-2020
- Numerical case study of a polar low in the Labrador Sea. Mailhot, J., et al. [1996.eng] 50-5869
- Numerical landscapes: static, kinematic and dynamic process-form relations. Richards, K., et al. [1995.eng] 50-4153
- Numerical model of flow in ice-covered channel. Yoon, J.Y., et al. [1996.eng] 50-2720
- Numerical model simulation of a summer reversal of the Beaufort gyre. Preller, R.H., et al. [1989.eng] 50-4706
- Numerical modeling of heterogeneous ozone depletion in polar stratospheric clouds. Smyshlaev, S.P., [1994.eng] 50-2109
- Numerical modelling of ice jam resistance to main channel flow. Saade, R.G., et al. [1995.eng] 50-6206
- Numerical modelling of ice jams. Petryk, S., [1995.eng] 50-788
- Numerical modelling of ice sheet fluctuation in the Russian Arctic. Siegert, M.J., et al. [1995.eng] 50-1800
- Numerical modelling of North Atlantic Quaternary sedimentation. Haupt, B.J., et al. [1995.eng] 50-750
- Numerical models of heat transfer during food freezing. Tocchi, A.M., et al. [1995.eng] 50-596
- Numerical prediction of sea surges and ice conditions on the Laptev and East-Siberian Sea. Ashik, I.M., [1995.eng] 50-2069
- Numerical reconstruction of a soft-bedded Laurentide Ice Sheet during the last glacial maximum. Clark, P.U., et al. [1996.eng] 50-6539
- Numerical simulation of aircraft icing on wings and nacelles. Brahimi, M.T., et al. [1996.eng] 50-5392
- Numerical simulation of arctic pressure ridging. Hopkins, M.A., [1995.eng] 50-6289
- Numerical simulation of arctic stratus cloud turbulence. Smith, W.S., et al. [1996.eng] 50-2773
- Numerical simulation of land-breeze-induced snowbands along the western shore of Lake Michigan. Ballentine, R.J., [1982.eng] 50-3648
- Numerical simulation of polar lows. Grønås, S., et al. [1995.eng] 50-2525
- Numerical simulation of river ice processes. Shea, H.T., et al. [1995.eng] 50-355
- Numerical simulation of Shirase Glacier. Pattyn, F., et al. [1995.eng] 50-2578
- Numerical simulation of the Martian polar cap breeze. Fernández, W., [1995.eng] 50-3672
- Numerical simulations of topographic Rossby waves along the East Greenland front. Maslowski, W., [1996.eng] 50-5260
- Numerical studies of Langevin equations for the dynamics of a dense hard sphere fluid. Valls, O.T., et al. [1995.eng] 50-1228
- Numerical study of iced conductors aerodynamics. Ilincă, A., et al. [1996.eng] 50-5336
- Numerical study of the circulation of the Bering Sea basin and exchange with the North Pacific Ocean. Overland, J.E., et al. [1994.eng] 50-2855
- Of ocean waves and sea ice. Squire, V.A., et al. [1995.eng] 50-5241
- On dynamics of ice-structure interaction. Kajaste-Rudnitski, J., [1995.eng] 50-4169
- On filtering consolidation of ground during pre-construction thawing. Barsgeian, R.M., et al. [1996.rus] 50-6831
- On snow cover ablation. Hofmann, G., [1964.eng] 50-5753
- On the estimation of frost loads. Rajani, B., et al. [1996.eng] 50-6751
- On the generation of internal waves beneath sea ice by a moving load. Duffy, D.G., [1996.eng] 50-3825
- On the ice-ocean response to wind forcing. Omstedt, A., et al. [1996.eng] 50-6666
- On the modelling of ice cover fracture. Slepian, L.I., [1990.eng] 50-94
- On the prediction of hydraulic conductivity of frozen soils. Tarnawski, V.R., et al. [1996.eng] 50-4307
- On the volume-viscous behavior of snow. Mahrenholtz, O., et al. [1995.eng] 50-2950
- Optimal design of piping systems for district heating. Phetelap, G., [1995.eng] 50-1519
- Orientation dependence of elastic constants for ice. Parameswaran, V.R., [1987.eng] 50-4223
- Origin and structure of a numerically simulated polar low over Hudson Bay. Albright, M.D., et al. [1995.eng] 50-2526
- Oscillatory convection during melting of ice in a vertical rectangular enclosure. Ho, C.J., et al. [1996.eng] 50-6454
- Outflow of dense water from the Storfjord in Svalbard: a numerical model study. Jungclauss, J.H., et al. [1995.eng] 50-2777
- Parameterization of cloud ice crystal conversion processes, pt.1. Harrington, J.Y., et al. [1995.eng] 50-3260
- Parameterization of surface albedo for sea ice and its snow cover. Barry, R.G., [1996.eng] 50-5014
- Penetrative convection induced by the freezing of seawater. Hadji, L., et al. [1996.eng] 50-6761
- Permafrost distribution in the northern hemisphere under scenarios of climatic change. Anisimov, O.A., et al. [1996.eng] 50-6619
- Perturbation-based finite element analyses of transmission line galloping. Desai, Y.M., et al. [1996.eng] 50-4291
- Phase change problems in soil freezing. Li, S.X., [1989.chi] 50-1376
- Phase function calculations of single hexagonal bullet-like ice crystals. Liu, C.L., et al. [1995.eng] 50-4345
- Phase transformation in materials with nonuniform phase transition temperatures. Hong, J.S., et al. [1995.eng] 50-755
- Photoviscoelastic modeling of the creep of frozen soil. Zhao, X.S., et al. [1996.eng] 50-6743
- Physical modeling of ice jams. Wuebben, J.L., [1995.eng] 50-789
- Physically based model of the form drag associated with sastrugi. Andreas, E.L., [1995.eng] 50-237
- Planar forcing of floating ice sheets. Zhao, Z.G., et al. [1996.eng] 50-1108
- Pleistocene glaciation and the Earth's precession constant. Mitrovica, J.X., et al. [1995.eng] 50-517
- Precipitation sensitivity to cloud microphysical parameters. Liu, Y.Q., et al. [1996.eng] 50-4353
- Predicting sediment load of Swiss rivers. Hunziker, R.P., [1995.ger] 50-4173
- Predicting the maximum available frequencies using a numerical model of the high latitude ionosphere. Vovk, V.I.A., et al. [1991.rus] 50-2267
- Prediction model for complete ice cover formation in partly open water. Sasaki, N., et al. [1996.eng] 50-4480
- Prediction of frost heave of roads—a simple empirical model. Sætersdal, R., [1981.eng] 50-2139
- Prediction of frost penetration beneath West Virginia pavements. Moulton, L.K., [1968.eng] 50-4549
- Prediction of permafrost temperature in bed of structure from field data. Khristalev, L.N., et al. [1995.eng] 50-345
- Predictive model of frost heave and thaw weakening. Guymon, G.L., et al. [1985.eng] 50-2310
- Preliminary results of ice-aluminum interfacial fracture toughness testing. Whelan, A.E., et al. [1995.eng] 50-2959
- Preliminary study on the calculation of deformation of frozen wall. Mi, H.Z., [1989.chi] 50-1397
- Pressure, salinity, and maximum density temperature of sea water. Kukulka, D.J., et al. [1996.eng] 50-6441
- Probabilistic approach to determining frost heave. Chamberlain, E.J., et al. [1981.eng] 50-2141
- Probability model for the structure of frozen strata in Central and Eastern Siberia. Iakupov, V.S., et al. [1996.rus] 50-6370
- Problem of primary frost heave with frost penetration. Ding, Z.Z., [1995.eng] 50-2162
- Proceedings. Seminar on the Prediction of Frost Heave, Nottingham, England, Apr. 9, 1981, [1981.eng] 50-2135
- Propagation of elastic waves in ice. Ryzhkin, I.A., [1984.eng] 50-5787
- Propagation of sound from a moving airborne source in an ice-covered ocean. Grudskii, S.M., et al. [1996.eng] 50-4626
- Proton-ordered ice structures at zero pressure. A quantum-mechanical investigation. Pisani, C., et al. [1996.eng] 50-5935
- Radiative properties of snow for clear sky solar radiation. Choudhury, B.J., [1979.eng] 50-3955
- Radio wave scattering from melting snow particles. Zhang, W., et al. [1996.eng] 50-6622
- Radioactive heating of porous comet nuclei. Prialnik, D., et al. [1995.eng] 50-1464
- Rain production in convective clouds, pt.2. Reisin, T., et al. [1996.eng] 50-6325
- Rapid glaciation of slightly supercooled cumulus clouds. Mason, B.J., [1996.eng] 50-5010
- Reflection coefficient in microwave propagation over snow-covered terrain. Suzuki, M., [1996.eng] 50-3942
- Regional snow and water balance models. Xu, C.Y., et al. [1996.eng] 50-5835
- Regularities in the interaction of frozen strata with gas or gas hydrate beds. Romanovskii, N.N., et al. [1996.rus] 50-6391
- Reinforcement percentage effects on bending strength of soil-ice mixtures. Nixon, W.A., et al. [1995.eng] 50-358
- Relation between gouging force and the shape of ice floe. Terai, Y., et al. [1996.jpn] 50-5887
- Relationship between atmospheric circulation and antarctic ozone depletion. Butchart, N., et al. [1996.eng] 50-3963
- Relationship of telluric currents to the corrosion of warm arctic pipelines. Sackinger, W.M., [1991.eng] 50-1725
- Response of a circular ice floe to ocean waves. Meylan, M.H., et al. [1996.eng] 50-5264
- Response of snowmelt hydrology to climate change. Brubaker, K.L., et al. [1996.eng] 50-6614
- Reverse osmosis/direct contact freezing system for desalination plants. Madani, A.A., et al. [1989.eng] 50-4611
- Review of dynamical studies on hydraulic transportation of snow. Umemura, T., [1996.jpn] 50-6731
- Review of solution methods to the problem of heat-mass transfer during freezing and thawing. Komarov, I.A., [1996.rus] 50-6816
- Revisiting the degree-day method for snowmelt computations—discussion. Howard, C.D.D., [1996.eng] 50-4411
- Ridging and strength in modeling the thickness distribution of arctic sea ice. Flato, G.M., et al. [1995.eng] 50-570
- River-coastal sea ice interaction model: Mackenzie River Delta. Searcy, C., et al. [1996.eng] 50-5265
- Role of air-sea heat flux in Newfoundland Shelf sea temperature variability. Umoh, J.U., et al. [1995.eng] 50-4209
- Role of sediment transport in the mechanics of jökulhlaups. Fowler, A.C., et al. [1996.eng] 50-6269
- Runoff index values for frozen soil areas of the Pacific Northwest. McCool, D.K., et al. [1995.eng] 50-3525
- Runoff modeling of a small river basin. Ambrose, B., et al. [1996.eng] 50-6586
- Runup and overtopping of impulse waves on dams. Müller, D.R., [1995.ger] 50-858
- Saturated cemented porous material permeability during freezing. Kralj, B., et al. [1996.eng] 50-5024
- Scaling snowdrift development rate. Lever, J.H., et al. [1995.eng] 50-3114
- Scaling snowdrift development rate. Lever, J.H., et al. [1995.eng] 50-6047
- Sea ice radar backscatter and the fusion of active and passive microwave data. Beaven, S.G., [1995.eng] 50-4171
- Sea ice rheology and sea ice modelling. Tremblay, B., [1993.eng] 50-5185
- Sea of Okhotsk near-freezing dichothermal layer variations. Yang, J.Y., et al. [1996.eng] 50-6219
- Second-order dynamic model for the frost hardness of trees. Leinonen, I., et al. [1995.eng] 50-1146
- Sediment flux from a fjord during glacial periods. Isfjorden, Spitsbergen. Hooke, R.L., et al. [1996.eng] 50-5318
- Seeding implications of ice crystal growth in the turbulent boundary layer. Levy, G., et al. [1984.eng] 50-4496
- Sensitivity of squall-line rear inflow to ice microphysics and environmental humidity. Yang, M.J., et al. [1995.eng] 50-1527
- Shear margins in glaciers and ice sheets. Raymond, C., [1996.eng] 50-4894
- Simple energy budget algorithm for the snowmelt runoff model. Kustas, W.P., et al. [1994.eng] 50-3819
- Simple model for freezing rain ice loads. Jones, K.F., [1996.eng] 50-5399
- Simple model to estimate atmospheric concentrations of aerosol chemical species based on snow core chemistry at Summit, Greenland. Bergin, M.H., et al. [1995.eng] 50-3097
- Simulated transport of three cations through porous media. Grant, S.A., et al. [1995.eng] 50-5598
- Simulation and analysis of upper Niagara River ice-jam conditions. Wang, D.S., et al. [1995.eng] 50-356
- Simulation and observation of ice formation (freeze-over) in a lake. Fang, X., et al. [1996.eng] 50-5466
- Simulation models of flow type and powder type avalanches examined by gravity currents. Fukushima, Y., et al. [1996.jpn] 50-4933
- Simulation of clathrate hydrate thermal conductivity. Inoue, R., et al. [1996.eng] 50-5505
- Simulation of foam protection of plants against frost. Kravitski, B., et al. [1995.eng] 50-961
- Simulation of Quaternary loess deposit magnetic profiles. Anderson, R.S., et al. [1996.eng] 50-4584
- Simulation of rain production in convective clouds, pt.1. Reisin, T., et al. [1996.eng] 50-4369
- Simulation of runoff processes of a continental mountain glacier in the Tian Shan, China. Kang, E.S., et al. [1995.eng] 50-2439
- Simulation of Scots pine regeneration under changing Finnish climate. Kellomäki, S., et al. [1995.eng] 50-1089
- Simulation of soil moisture variations reflecting the hydrological cycle. Akinremi, O.O., et al. [1996.eng] 50-5918
- Simulation of streamflow in a macroscale watershed using general circulation model data. Kite, G.W., et al. [1994.eng] 50-3820
- Simulation of summer snowmelt on the Greenland ice sheet using a one-dimensional model. Rowe, C.M., et al. [1995.eng] 50-585
- Simulation of the mixed-layer circulation in the Arctic Ocean. Holland, D.M., et al. [1996.eng] 50-2843
- Simulation of the seasonal arctic sea-ice cover with a dynamic thermodynamic sea-ice model. Holland, D.M., et al. [1993.eng] 50-5186
- Simulation of wet-snow accretion by axial growth on a transmission line conductor. Poots, G., et al. [1995.eng] 50-2349
- Singularities in simulation of ice sheet-solid impact regime. Darr, D.G., et al. [1995.eng] 50-2163
- Size parameters of snow grains in scattering and emission models. Jin, Y.Q., [1995.eng] 50-4179
- Snow and ice cover and climate sensitivity. Oerlemans, J., et al. [1995.eng] 50-3246
- Snow hydrological parameters for modelling river runoff. Kuchment, L.S., et al. [1996.eng] 50-5519
- Snow mass in boreal forests derived from a modified passive microwave algorithm. Foster, J.L., et al. [1995.eng] 50-3718
- Soil deformation and stress analysis under a rolling wheel. Foster, W.A., Jr., et al. [1995.eng] 50-47

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Measuring instruments

- Soil freezing on the outside of a vertical two-phase closed thermosiphon. Gu, W.B., et al. [1996,eng] 50-6494
- Solidification of water in a buried pipe. Negiz, A., et al. [1995,eng] 50-1967
- Solution and stability of natural convective snow in a melt puddle. Bogorodskii, P.V., [1995,eng] 50-2067
- Some tensile creep characteristics of frozen loess. Shen, Z.Y., et al. [1995,chi] 50-5622
- Sound reflection from ice cover. Kudriashov, V.M., [1996,eng] 50-4627
- Space imagery as a basis for modeling the dynamics of thermokarst lake plains. Viktorov, A.S., [1996,eng] 50-6647
- Space-time distribution of electron density in the maximum of the F2 layer at high latitudes. Besprozvannia, A.S., [1991,rus] 50-1638
- Spatially distributed energy balance snowmelt model. Tarboton, D.G., et al. [1995,eng] 50-2407
- Stability of M_2 critical latitude in the Barents Sea. Furevik, T., et al. [1996,eng] 50-5262
- Stability of water flow in glaciers. Szilder, K., et al. [1996,eng] 50-6436
- State of SO_2 on Io's surface. Kerton, C.R., et al. [1996,eng] 50-4257
- Steady-state convection in porous media and snow metamorphism. Klever, N., [1984,ger] 50-3840
- Storm surges in Canadian waters. Murty, T.S., et al. [1995,eng] 50-1854
- Strength characteristics of frozen soil under torsional loading. Peng, W.W., et al. [1995,chi] 50-5638
- Strength of composite ice-resisting walls subjected to combined loads. Stephens, M.J., et al. [1990,eng] 50-95
- Strength sensitivity index for assessing climate warming effects on permafrost. Ladanyi, B., [1996,eng] 50-6110
- Stress calculation of frozen wall with viscoelastic plastic theory. Lou, G.D., [1989,chi] 50-1398
- Stress interaction between multiple crevasses in glacier ice. Sas-solas, C., et al. [1996,eng] 50-5464
- Structure of amphiphile monolayer adsorbed on ice Ih. Bell, K.P., et al. [1996,eng] 50-4023
- Structure-independent measurement of icing. Makkonen, L., [1992,eng] 50-3629
- Studies on prediction method of snowmelt runoff in the upper reaches of the Yellow River. Song, Q., [1990,chi] 50-6654
- Study of deformation properties of freezing and thawing soils for cold weather construction. Ganeles, L.B., et al. [1989,rus] 50-2252
- Study of practicability of photoviscoelastic simulation test for frozen soil's creep. Wang, T.D., et al. [1995,chi] 50-5624
- Study on snowmelt runoff prediction using weekly weather forecast. Hata, S., et al. [1995,eng] 50-1959
- Study on the behaviour of the direct contact melting under unsteady condition. Saito, A., et al. [1996,eng] 50-6449
- Study on thermos curing of concrete under winter conditions in Bulgaria. Valiev, V., et al. [1995,eng] 50-2667
- Sub-surface melting in a seasonal snow cover. Koh, G., et al. [1995,eng] 50-1869
- Subgrid parameterization of surface heat and momentum fluxes over polar oceans. Vihma, T., [1995,eng] 50-2110
- Sublimation of dry ice pellets used for cloud seeding. Kochubajda, B., et al. [1985,eng] 50-4593
- Submillimeter wave attenuation in falling snow. Suzuki, M., et al. [1979,jpn] 50-3940
- Subtidal and tidal currents in the vicinity of the Iceland-Faeroes front. Allen, J.T., [1995,eng] 50-159
- Support of vertical-shaft collar under complex geocryological conditions. Izakson, V.I.U., et al. [1995,eng] 50-417
- Temperature effects on porous solid capillary functions. Grant, S.A., et al. [1996,eng] 50-5965
- Temperatures and stresses in frost susceptible soil around a chilled pipeline. Coutts, R.J., [1991,eng] 50-70
- Temporal evolution of under ice reflectivity. Laible, H.A., et al. [1996,eng] 50-4591
- Ten million year histories of obliquity and precession: the influence of the ice-age cycle. Jiang, X.H., et al. [1996,eng] 50-5044
- Tests on the thermal behavior of steel in polar conditions (North Geographic Pole). Aguirre-Puente, J., et al. [1990,spa] 50-5528
- Theoretical aspects of modeling backscattering by cirrus ice particles at millimeter wavelengths. Schneider, T.L., et al. [1995,eng] 50-3261
- Theoretical model of the transfer of radionuclides (the accident at the Siberian chemical plant). Belov, P.N., [1995,rus] 50-3774
- Theory of ice jams. Beltaos, S., [1995,eng] 50-787
- Theory of lattice Boltzmann simulations of glacier flow. Bahr, D.B., et al. [1995,eng] 50-1883
- Thermal calculation for anti-icer with micro-ejector. Qui, X.G., et al. [1995,eng] 50-1067
- Thermal effects of the ocean on permafrost. Lachenbruch, A.H., [1957,eng] 50-3943
- Thermal equilibrium in freezing unsaturated porous media. Tao, Y.X., et al. [1993,eng] 50-3362
- Thermal performance of a planar latent heat storage unit for load shifting. Laouadi, A., et al. [1996,eng] 50-6468
- Thermal stability of the freezing front in porous media such as soils. Bronfenbrenner, L., et al. [1996,eng] 50-6479
- Thermal stresses on mine tunnels in frozen rock. Izakson, V.I.U., [1996,eng] 50-6495
- Thermodynamic basis for self-regulation and control of the state of frozen ground. Tsubolskii, V.R., [1990,rus] 50-1609
- Thermodynamic model of lake ice formation and melting. Dmitriev, N.V., [1995,eng] 50-5480
- Thermomechanical response of the Greenland ice sheet to various climate scenarios. Calov, R., et al. [1996,eng] 50-4522
- Three dimensional modelling of a soil heat exchanger-storage system for greenhouses. Gauthier, C., et al. [1996,eng] 50-6445
- Three-dimensional simulation of river ice jams. Hopkins, M.A., et al. [1996,eng] 50-6155
- Three-layer model of flow under the ice cover in rivers. Debol'skii, V.K., et al. [1995,eng] 50-352
- Thunderstorm electrification analysis: the dependence on the temperature-LWC diagram. Scavuzzo, C.M., et al. [1996,eng] 50-3342
- Tidally forced under-ice Ekman layers observed by an acoustic Doppler current profiler. Marsden, R.F., et al. [1995,eng] 50-5933
- Time series in geocryology. Mel'nikov, V.P., et al. [1992,rus] 50-134
- Topographic control on the dynamics of the Svalbard-Barents Sea ice sheet. Siegert, M.J., et al. [1996,eng] 50-5306
- Tracer experiments to determine subglacial pressurized flow in Storglaciären. Kohler, J., [1995,eng] 50-445
- Turbine blade icing model. Finstad, K.J., et al. [1992,eng] 50-3628
- Two examples of expert knowledge based system for avalanche forecasting and protection. Buisson, L., et al. [1995,eng] 50-1055
- Two-dimensional dynamic simulation of solid fracture. Part I: description of the model. Potapov, A.V., et al. [1995,eng] 50-947
- Two-year simulation of the Great Lakes region with a coupled modeling system. Bates, G.T., et al. [1995,eng] 50-1566
- U.S. FROST: Data and Science Plan. Report from the U.S. Science FROST Workshop, 2 and 3 August 1993. Bromwich, D.H., ed. et al. [1993,eng] 50-3332
- Ultratransparent antarctic ice as a supernova detector. Halzen, F., et al. [1996,eng] 50-6323
- Unified viscoplastic model for the inelastic behavior of ice. Lee, J.H., et al. [1996,eng] 50-6176
- Use of ERS-1 SAR data in numerical sea ice modeling. Leppranta, M., et al. [1992,eng] 50-222
- Use of remotely sensed data in the hydrological modelling of the upper Columbia watershed. Kite, G.W., [1996,eng] 50-5538
- Using heat exchange models for geocryological temperature monitoring. Izakson, V.I.U., et al. [1992,rus] 50-820
- Validation of avalanche forecasting systems. Bolognesi, R., [1996,fre] 50-4069
- Validation of backscatter models for level and deformed sea-ice in ERS-1 SAR images. Carlström, A., et al. [1995,eng] 50-1811
- Validation of climate model for snow cover variations. Douville, H., et al. [1995,eng] 50-2735
- Variation in snowmelt alimentation of annual river runoff. Boigov, M.V., et al. [1996,eng] 50-5860
- Water movement in wet snow. Gray, J.M.N.T., [1996,eng] 50-3727
- Waveform model for surface and volume scattering from ice and snow. Newkirk, M.H., et al. [1996,eng] 50-3886
- Wing crack models of the brittle compressive failure of ice. Nixon, W.A., [1996,eng] 50-3826
- Winter-time convection in open-graded embankments. Goering, D.J., et al. [1996,eng] 50-3827
- See [also]: Computerized simulation
- Meadow soils**
- Adaptation of tree seedlings to subalpine meadow soil moisture variations. Kuuluvainen, T., et al. [1996,eng] 50-4337
- Creation of high-productive seedling meadows on disturbed arctic lands. Tikhenen, E.A., [1991,eng] 50-1744
- Cryogenic fissures as a factor of soil anisotropy. Kulikov, A.I., [1996,eng] 50-5449
- Diagnostics of solonchaks: a class of salt-rich soils. Pankova, E.I., et al. [1995,eng] 50-3874
- Ecological study in an alpine pasture of Bhagirathi Valley, Garhwal Himalaya. Rajwar, G.S., et al. [1994,eng] 50-5429
- Ecology and conservation of alpine meadows in central Himalaya, India. Ram, J., et al. [1994,eng] 50-5418
- Forecasting the composition of post-lacustrine meadows in the Yakutsk Arctic. Bosikov, N.P., [1991,rus] 50-1310
- Genesis of mountain-meadow and mountain-meadow-steppe chernozem-like soils. Evdokimova, T.I., et al. [1995,rus] 50-3972
- Geographical patterns in the biological productivity of soil-and-vegetation associations. Bazilevich, N.I., [1995,eng] 50-3872
- High altitudes of the Himalaya (biogeography, ecology & conservation). Pangtey, Y.P.S., ed. et al. [1994,eng] 50-5415
- Lichens of alpine meadows on the Beartooth Plateau, Montana and Wyoming. U.S.A. Eversman, S., [1995,eng] 50-2815
- Meadow ecology in the polar Urals, Russia. Gorchakovskii, P.L., et al. [1996,eng] 50-5482
- Monitoring sown meadows in eastern European tundra. Kotelina, N.S., et al. [1994,rus] 50-292
- Mountain meadow soils of the western Kunlun Mountains. Zhang, L.D., et al. [1991,chi] 50-5114
- Mountain meadow soils of Xizang. Zhang, B., [1991,chi] 50-5115
- Resource ecology for soil conservation in the cold deserts of the Himalaya. Gupta, R.K., [1994,eng] 50-5426
- Runoff and sediment yield under grazing in foothills fescue grasslands of Alberta. Naeth, M.A., et al. [1996,eng] 50-3340
- Tussock grass community in a Himalayan alpine grassland. Rikhari, H.C., et al. [1994,eng] 50-5428
- Typization of elementary soil-cover structures occurring in European Russia. Simakova, M.S., [1995,eng] 50-3878
- Vegetation dynamics and animal behaviour in an alpine pasture of the Garhwal Himalaya. Sundriyal, R.C., [1994,eng] 50-5427
- Vegetation patterns in the alpine zone of the Himalaya in eastern Nepal. Kikuchi, T., [1994,eng] 50-5419
- Measurement**
- Changes in ultraviolet radiation reaching the Earth's surface. Madronich, S., et al. [1995,eng] 50-4197
- Dielectric moisture measurement of frozen ground. Frolov, A.D., [1996,rus] 50-6835
- Flux and fluence of major solar proton events and their record in antarctic snow. Shea, M.A., et al. [1994,eng] 50-4622
- Geodynamic polygon in Hornsund Fjord, Spitsbergen. Pachuta, A., et al. [1989,pol] 50-2933
- Method for continuous measurement of ice cover thickness. Nordell, B., et al. [1995,eng] 50-1145
- New radiochemical procedures for environmental actinide measurements and data quality control. Testa, C., et al. [1995,eng] 50-2344
- Ozone observations on Antarctic Peninsula. Taalas, P., et al. [1993,spa] 50-3554
- Review of sea ice density. Timco, G.W., et al. [1996,eng] 50-3823
- Shallow ice coring and borehole casing at Dome Fuji Station, East Antarctica. Motoyama, H., et al. [1995,eng] 50-1694
- Soil water pressure measurements in subzero air temperatures. Gorden, D.S., et al. [1995,eng] 50-420
- Source of errors in surface area measurements of glacier mass balance. Jacobsen, F.M., et al. [1995,eng] 50-1865
- Thermal stress measurements in asphalt concrete. Janoo, V.C., et al. [1993,eng] 50-760
- Year-round column ozone observations at 65°S: validation and polar winter data. Jones, A.E., et al. [1995,eng] 50-3524
- See [also]: Acoustic measurement; Electrical measurement; Flow measurement; Geothermometry; Height finding; Photogrammetry; Photometry; Radiometry; Remote sensing; Sampling; Sounding; Spectroscopy; Temperature measurement; Velocity measurement; Well logging
- Measuring instruments**
- AMANDA: Antarctic Muon And Neutrino Detector Array. Barwick, S.W., et al. [1994,eng] 50-4694
- Apparatus for measuring ice distribution profiles. Gerardi, J.J., et al. [1995,eng] 50-3482
- Arctic tropospheric chemistry. Hernández, M.D.A., [1996,eng] 50-3868
- Coincident events between SPASE and AMANDA detectors. Miller, T., et al. [1995,eng] 50-4305
- Design of capacitor to measure permittivity of supercooled aqueous solutions. Wolter, F., et al. [1996,eng] 50-5503
- Development of a portable ice-thickness measuring instrument. Glynn, D.P., et al. [1992,eng] 50-4908
- Device for measuring pressure. Zinov'ev, V.A., et al. [1992,rus] 50-1921
- Device for measuring the thickness of ice cover. Ilarov, N.A., et al. [1992,rus] 50-1930
- Field measurements and model calibration in avalanche dynamics. Nettuno, L., [1995,eng] 50-1057
- Fracture toughness of ice and firn determined from the modified ring test. Fischer, M.P., et al. [1995,eng] 50-458
- Gas measurement with large Venturi tubes at Prudhoe Bay, Alaska. Metz, W.P., et al. [1991,eng] 50-1759
- Ice accretion and persistence measuring instrument. Franklin, C.H., et al. [1991,eng] 50-4364
- Ice force and scour instrumentation for the White River, Vermont. Zabilansky, L.J., [1996,eng] 50-6073
- Ice thickness measurement reflectometer. Glynn, D.P., et al. [1995,eng] 50-3478
- Method and apparatus for remote detection and thickness measurement of ice or liquid layer. Gagnon, R.E., [1995,eng] 50-3483
- Method and system for detecting potential icy conditions on roads. Rendon, E., [1995,eng] 50-3461
- New device for the measurement of air content in polar ice. Lipenkov, V.I.A., et al. [1995,eng] 50-462
- Polar Ozone and Aerosol Measurement instrument. Giacomini, W., et al. [1996,eng] 50-5765
- Proceedings. Workshop on Future Directions in Snow and Ice Research. Gallatin Gateway, MT, Oct. 3-4, 1995. [1995,eng] 50-4623
- Protecting water meters from freezing. Kotry, J., [1992,eng] 50-3559
- Quantitative cold differential thermal analysis. Dunn, J.R., et al. [1965,eng] 50-4739
- Radiation exposure rate over the antarctic ice sheet. Nakajima, T., et al. [1995,eng] 50-3416
- Structure-independent measurement of icing. Makkonen, L., [1992,eng] 50-3629
- Technique for high time resolution snowpack dating. Braaten, D.A., [1995,eng] 50-776
- Universal frost susceptibility test apparatus. Chamberlain, E.J., [1986,eng] 50-1974
- See [also]: Airborne radar; Borehole instruments; Dynamometers; Hygrometers; Magnetometers;

Mechanical ice prevention

Meltwater

- Meteorological instruments: Moisture meters; Penetrometers; Precipitation gages; Probes; Radiation measuring instruments; Snow survey tools; Strain measuring instruments; Thermistors; Thermocouples; Thickness gages
- Mechanical ice prevention**
 See [also]: Ice removal
- Mechanical properties**
 Cold region hydraulic oil applications. Uhrig, S.L., [1991.eng] 50-1758
 Concrete/reinforcing steel bond strength of low-temperature concrete. Schroeder, H.P., et al. [1996.eng] 50-4757
 Cryogenic properties of polymers. Yano, O., et al. [1995.eng] 50-1550
 Design and analysis of a low speed drag plow for use in deep snow. Walsh, M.R., [1991.eng] 50-6198
 Experimental study of skiing turns, pt.3. Sahashi, T., et al. [1996.eng] 50-5919
 Free vibrations of a snowboard. Sakata, T., et al. [1996.eng] 50-4568
 Instability trends of inertially coupled galloping, part 1: initiation. Yu, P., et al. [1995.eng] 50-1053
 Instability trends of inertially coupled galloping, part 2: periodic variations. Yu, P., et al. [1995.eng] 50-1054
 Interpretation of field measurements for ice engineering applications. Gold, L.W., [1996.eng] 50-5050
 Large-diameter glory hole drilling: the evolution from 12- to 20-ft diameter. Shields, R.G., [1991.eng] 50-1738
 Low temperature effects on saturated fibrous polymer composites. Starzhnetskaia, T.A., et al. [1996.eng] 50-4005
 Mechanical behavior of 18 Ni 200 grade maraging steel at cryogenic temperatures. Wagner, J.A., [1986.eng] 50-4101
 Mechanical properties of materials at low temperatures. Wigley, D.A., [1968.eng] 50-6049
 Perturbation-based finite element analyses of transmission line galloping. Desai, Y.M., et al. [1996.eng] 50-4291
 Preliminary results from fatigue tests on in situ sea ice beams. Haskell, T.G., et al. [1996.eng] 50-5469
 Sea ice data report. Kovacs, A., et al. [1970.eng] 50-3854
 SEM observations of the microstructure of frost deteriorated and self-healed concretes. Jacobsen, S., et al. [1995.eng] 50-3701
 Wear resistant concrete for pavements. Pedersen, N., [1988.eng] 50-4227
 Zero-velocity deicer spreaders clear more roadway for less. Banasiak, D., [1995.eng] 50-3675
 See [also]: Avalanche mechanics; Ice mechanics; Rock mechanics; Snow mechanics; Soil mechanics
- Mechanical tests**
 Assessing frost damage in compacted clay liners. Benson, C.H., et al. [1995.eng] 50-1133
 Avalanche modeling in concave and convex chutes. Greve, R., et al. [1993.eng] 50-1209
 Centrifuge modeling and numerical simulation of ice scour. Yang, Q.S., et al. [1996.eng] 50-5936
 Compacted snow road. 1. Properties of snow. Eriksson, R., [1959.eng] 50-3853
 Compaction tests to simulate icy satellite regolith physics. Leliwa-Kopystyński, J., et al. [1995.eng] 50-5200
 Computational modelling of brittle ice fragmentation. Tuhkuri, J., [1996.eng] 50-5942
 Concrete/reinforcing steel bond strength of low-temperature concrete. Schroeder, H.P., et al. [1996.eng] 50-4757
 Conductivity effects on electromagnetic emissions (EME) from ice fracture. O'Keefe, S.G., et al. [1996.eng] 50-4221
 Creep, shrinkage, frost, and sulphate resistance of high strength concrete. Ghosh, S., et al. [1995.eng] 50-577
 Cyclic direct simple shear testing of a Beaufort Sea clay. McCarron, W.O., et al. [1995.eng] 50-579
 Deformation of ice under low stresses. Sego, D.C., et al. [1982.eng] 50-3787
 Design and analysis of a low speed drag plow for use in deep snow. Walsh, M.R., [1991.eng] 50-6198
 Development of a vehicle underfloor snow-melting robot. Imai, T., et al. [1995.eng] 50-1970
 Development of the original ice borehole jack. Masterson, D.M., et al. [1996.eng] 50-5051
 Dynamic testing of frozen soil sample with an exploding wire system. Fyfe, J.M., [1968.eng] 50-2029
 Effects of freeze-thaw cycles on the properties of a sensitive clay. Roy, M., et al. [1995.fre] 50-581
 Electro-impulse deicing of the NASA Lewis altitude wind tunnel turning vanes. Ross, R., [1988.eng] 50-4100
 Estimation of freeze drying transport coefficients. Lombrafia, J.I., et al. [1996.eng] 50-5692
 Evaluation of frost action on concrete. Kleiner, V.D., [1996.eng] 50-4367
 Evaluation of winter vehicle traction with different types of tires. Lu, J.J., et al. [1995.eng] 50-5709
 Evaluation procedures for deicing chemicals and improved sodium chloride. Chappelow, C.C., et al. [1993.eng] 50-875
 Experimental study of skiing turns, pt.3. Sahashi, T., et al. [1996.eng] 50-5919
 Field experiments on snow avalanche mechanics. Schweizer, J., et al. [1995.eng] 50-1056
 Field measurements and model calibration in avalanche dynamics. Netuno, L., [1995.eng] 50-1057
 Field observations of frost action in intact and weathered Champlain Sea clay. Konrad, J.M., et al. [1993.eng] 50-580
 Fracture in the compression of a brittle material—columnar grained ice. Wu, H.C., et al. [1974.eng] 50-3788
 Fracture toughness of freshwater ice—part 1: experimental technique and results. Weber, L.J., et al. [1996.eng] 50-5158
 Fracture toughness of freshwater ice—part II: analysis and micrography. Weber, L.J., et al. [1996.eng] 50-5159
 Fracture toughness of ice and firn determined from the modified ring test. Fischer, M.P., et al. [1995.eng] 50-458
 Freezing of a salt solution in a packed bed. Chellaiah, S., et al. [1996.eng] 50-3909
 Frost heave research at the University of Nottingham. Jones, R.H., [1977.eng] 50-2312
 Frost heave studies by natural freezing. Stenberg, L., [1981.eng] 50-2145
 Frost-heave test as a compliance requirement. Sherwood, P.T., [1977.eng] 50-2317
 Full depth testing of frost susceptible soils. Rice, D.C., [1974.eng] 50-4401
 Heaving pressures as a means of assessing frost susceptibility. Kettle, R.J., et al. [1981.eng] 50-2142
 Ice shedding effects on an overhead transmission line. Jamaledine, A., et al. [1996.eng] 50-5337
 Ice shedding from cables. Druetz, J., et al. [1995.eng] 50-1144
 Ice tank tests on pressure ridge formation. Lensu, M., et al. [1995.eng] 50-4582
 Ice-pavement bond disbonding—fundamental study. Blackburn, R.R., et al. [1993.eng] 50-876
 Indentation pressure in ice/vertical structure interaction. Takuuchi, T., et al. [1995.eng] 50-2738
 Interpretation of field measurements for ice engineering applications. Gold, L.W., [1996.eng] 50-5050
 Laboratory study of sediment deformation: stress heterogeneity and grain-size evolution. Iverson, N.R., et al. [1996.eng] 50-6256
 Laboratory tests for ice interaction with steel booms. Timco, G.W., et al. [1996.eng] 50-5812
 Large-scale loading and collapse of natural sea ice and natural-artificial ice laminates. Lichtenberger, G.J., [1991.eng] 50-1718
 Low temperature behaviour of CFRP prestressed concrete beams. Bryan, P.E., et al. [1996.eng] 50-5811
 Microcracking during stress-relief of polycrystalline ice formed at high pressure. Meglis, I.L., et al. [1995.eng] 50-774
 Model pile tests in saline soils. Christopherson, A., et al. [1991.eng] 50-1719
 Moisture movement and freezing pressures. Hoekstra, P., [1968.eng] 50-1976
 Oilwell casing downdrag from subsidence at Prudhoe Bay. Nair, K., et al. [1971.eng] 50-4196
 Predicting brick frost resistance. II. Robinson, G.C., et al. [1995.eng] 50-1961
 Predicting brick frost-resistance. I. Robinson, G.C., et al. [1995.eng] 50-1109
 Predictive model of frost heave and thaw weakening. Guymon, G.L., et al. [1985.eng] 50-2310
 Preliminary results from fatigue tests on in situ sea ice beams. Haskell, T.G., et al. [1996.eng] 50-5469
 Pressure studies on frost heave in soil and glaciers. Radd, F.J., et al. [1966.eng] 50-1409
 Proceedings. Colloquium on Frost Heave Testing and Research. Nottingham, England, May 18, 1977. [1977.eng] 50-2311
 Proceedings. Seminar on the Prediction of Frost Heave. Nottingham, England, Apr. 9, 1981. [1981.eng] 50-2135
 Recommendations for concrete slab freeze-thaw testing. Réunion Internationale des Laboratoires d'Essais et de Recherches sur les Matériaux et les Constructions. [1995.eng] 50-1085
 Reinforcement percentage effects on bending strength of soil-ice mixtures. Nixon, W.A., et al. [1995.eng] 50-358
 Resilient modulus of cohesive soils and the effect of freeze-thaw. Lee, W.J., et al. [1995.eng] 50-578
 Snow behaviour under compaction for the production of ice. Gaméda, S., et al. [1996.eng] 50-4047
 Sources of variability in a constant boundary temperature frost heave test. Lomas, K.J., [1981.eng] 50-2143
 Stresses in sea ice in the neighboring force interaction zone. Nikitin, V.A., et al. [1995.eng] 50-5522
 Study of concrete bridges exposed to deicing salts. Novokshchenov, V., [1989.eng] 50-4225
 Superplasticizer dosage effects on concrete frost resistance. Gagné, R., et al. [1996.eng] 50-5922
 Testing of ships in ice. Ryvlin, A.I.A., et al. [1980.rus] 50-388
 Traction and hardening tests of mobile missile launcher over frozen ground. Chamberlain, E.J., et al. [1988.eng] 50-2524
 Triaxial tests on crushed ice. Singh, S.K., et al. [1996.eng] 50-5468
 Undrained shear strength for liquefaction flow failure analysis. Konrad, J.M., et al. [1995.eng] 50-1824
 Universal frost susceptibility test apparatus. Chamberlain, E.J., [1986.eng] 50-1974
 Using Rutschblock testing to avoid avalanches. Abromeit, D., [1995.eng] 50-2863
 Viscosity of fluidized snow. Nishimura, K., [1996.eng] 50-5465
- Mediterranean Sea**
 Glacial drainage towards the Mediterranean during the Middle and Late Pleistocene. Arkhipov, S.A., et al. [1995.eng] 50-1799
- Meetings**
 1996 IASC meeting report. International Arctic Science Committee. [1996.eng] 50-4962
 Alpine meteorology—conference in Engelberg, Switzerland, September 1990. Davies, H.C., [1991.eng] 50-5439
 Arctic conferences fail to be frozen. [1986.eng] 50-5652
 Arctic systems: natural environments, human actions, nonlinear processes. International Arctic Science Committee. [1995.eng] 50-5302
 Cold regions engineering research—a strategic plan. Carlson, R.F., ed. et al. [1988.eng] 50-6209
 Frozen ground. [1995.eng] 50-2445
 Frozen ground. [1996.eng] 50-5661
 International Arctic Buoy Program Meeting in Oslo. Dugan, J.P., [1992.eng] 50-3932
 International Conference on Global Change and Arctic Terrestrial Ecosystems—recommendations. Arctic Global Change Conference, Oppdal, Norway, Aug. 21-26, 1993. [1993.eng] 50-3331
 International Conference on the Role of Polar Regions in Global Change. Weller, G.E., [1991.eng] 50-5438
 Meeting of the Avalanche Commission, Autrans, France, 1994. International Commission for Alpine Rescue (French version: Commission Internationale pour le Sauvetage Alpin) (German version: Internationale Kommission für Alpen Rettingswesen), Birchwil, Switzerland, [1995.ita] 50-2599
 Newsletter, No.1, May 1995. International Permafrost Association. [1995.eng] 50-5147
 Newsletter, No.2, Dec. 1986. International Permafrost Association. [1986.eng] 50-5148
 Newsletter, No.3, Dec. 1987. International Permafrost Association. [1987.eng] 50-5149
 Newsletter, No.4, Jan. 1988. International Permafrost Association. [1988.eng] 50-5150
 Newsletter, No.5, Apr. 1989. International Permafrost Association. [1989.eng] 50-5151
 Polar Club and its activities. Jahn, A., [1989.pol] 50-2871
 Progress report on studies to explain the mechanisms of desertification. [1989.jp] 50-2034
 Report of the Antarctic Traverse Workshop, 2-4 May 1994, Washington, D.C. Blaisdell, G.L., [1994.eng] 50-4283
 Research recommendations from the previous conference, 7th, 1994. Kinney, T.C., et al. [1996.eng] 50-6123
 Resolution of the working session of the Glaciology Section, 3-4 April 1972. [1972.rus] 50-521
 Scientific Seminar of the Laboratory on Avalanches and Mudflows of Moscow State University. Bozhinski, A.N., [1972.rus] 50-550
 Steering Group for the Global Digital Sea-ice Data Bank. Fourth session. Final report. Commission for Marine Meteorology. [1994.eng] 50-6075
 Working session of the Glaciology Section in April 1971. Golodkovskaya, N.A., et al. [1972.rus] 50-532
 Working session of the Glaciology Section in April 1972. Davidovich, N.V., et al. [1972.rus] 50-520
 Workshop on the study of ice, water and heat balance. Golubev, G.N., et al. [1972.rus] 50-519
- Melting**
 Controlled melting in a thermal storage phase change material. Prasad, A., et al. [1996.eng] 50-6448
 Direct contact melting process on a curved wall coated with a porous layer. Oka, M., et al. [1996.eng] 50-6451
 Experimental study of the melting from discrete heat sources in a vertical enclosure. Duong, T., et al. [1996.eng] 50-6450
 Melting inside a cylinder filled with phase change material. Back, Y.R., et al. [1996.eng] 50-6457
 Study on the behaviour of the direct contact melting under unsteady condition. Saito, A., et al. [1996.eng] 50-6449
 See [also]: Artificial melting; Defrosting; Glacier melting; Ice melting; Snow melting; Thawing
- Melting points**
 Classical and quantum mechanical studies of ice Ih near the melting temperature. Gai, H.D., et al. [1996.eng] 50-3099
 Experimental study on the melting transition at interface between ice crystal and substrate. Furukawa, Y., et al. [1994.eng] 50-3072
 Ice polymorph pressure determination in a diamond-anvil cell. Haselton, H.T., Jr., et al. [1995.eng] 50-4088
 Ion flux through a shallow snowpack: effects of initial conditions and melt sequences. Davis, R.E., et al. [1995.eng] 50-2405
 Phase equilibria in extended simple point charge ice-water systems. Báez, L.A., et al. [1995.eng] 50-2606
 Potential food applications of high-pressure effects on ice-water transitions. Kalichevsky, M.T., et al. [1995.eng] 50-1955
 Premelting of ice in porous silica glass. Ishizaki, T., et al. [1996.eng] 50-6759
 Thermal regime of Holocene Greenland ice sheet moraine formation. Van Tatenhove, F.G.M., et al. [1996.eng] 50-5582
- Meltwater**
 Alternative road construction for stormwater management in cold climates. Stenmark, C., [1995.eng] 50-2532
 Application of satellite visible band data to high latitude oceans. Ahlén, K., et al. [1989.eng] 50-3934
 ARNO rainfall-runoff model. Todini, E., [1996.eng] 50-3729
 Atomic emission spectrometry of Greenland snow lead impurities. Łobinski, R., et al. [1995.eng] 50-4082
 Baltic Ice Lake. Brunnberg, L., [1995.eng] 50-513
 Basal water pressure as indicator of subglacial drainage patterns. Stone, D.B., et al. [1996.eng] 50-6090
 Biogenic organic compounds in ponds on the McMurdo Ice Shelf. Schall, C., et al. [1996.eng] 50-3703
 Biological treatment of waste water containing glycols from de-icing agents. Nitschke, L., et al. [1996.eng] 50-3619
 Calculation of spectral albedo for a melt pond. Makhtas, A., et al. [1995.eng] 50-2066

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Metals

- Catastrophic drainage from ice-dammed glacial Lake Assiniboine. Wolfe, B., et al. [1995,eng] 50-4881
- Changes in North Atlantic deep-water formation associated with the Heinrich events. Maslin, M.A., [1995,eng] 50-638
- Changing drainage patterns within South Cascade Glacier, Washington, USA, 1964-1992. Fountain, A.G., et al. [1995,eng] 50-2431
- Characteristics of runoff formation at the Kirgizskiy Alatau, Tien Shan. Aizen, V.B., et al. [1995,eng] 50-2435
- Characteristics of water quality in a forest river during the snow melting period. Tachibana, H., et al. [1994,eng] 50-4222
- Chemistry of artificial snow and its influence on the germination of mountain flora. Jones, H.G., et al. [1995,eng] 50-2428
- Chemistry of meltwater from Mount Xixia Bangma. Zhang, S., et al. [1982,chi] 50-6601
- Climate change impacts on glaciers and permafrost. Haeberli, W., [1995,eng] 50-1012
- Climate change in mountain environments. Willis, I., et al. [1995,eng] 50-1522
- Comments on the use of chemically based mixing models in glacier hydrology. Sharp, M., et al. [1995,eng] 50-447
- Conditions for formation and variability of flood flow of rivers in northern Tien Shan. Sumarokova, V.V., [1973,rus] 50-435
- Discharge and fluvial sediment transport in a semi-arid Andean catchment. Barsch, D., et al. [1994,eng] 50-1544
- Dissolution kinetics, subglacial pathways and solute content of alpine meltwater. Collins, D.N., [1995,eng] 50-6045
- Dissolution kinetics, subglacial pathways and solute content of meltwater. Collins, D.N., [1995,eng] 50-3124
- Dynamics of thermokarst relief on the Yukechinsk polygon. Bosikov, N.P., [1996,rus] 50-6400
- Earth rotation, ocean circulation and paleoclimate. Mörner, N.A., [1995,eng] 50-6063
- Ecogeochemical investigations, Kola Peninsula: sulphur and trace element content in snow. Ayras, M., et al. [1995,eng] 50-4081
- Ecology and physiology of psychrophilic bacteria from antarctic saline lakes and sea-ice. Nichols, D.S., et al. [1995,eng] 50-4086
- Effects of acidification on plankton biomass in high mountain lakes. Engle, D., et al. [1995,eng] 50-2149
- Energy—water—mass balance and hydrological discharge. Kang, E.S., [1994,eng] 50-5576
- Erosion rates and sediment yields of glaciers. Bogen, J., [1996,eng] 50-6239
- Eruption-triggered debris flow on snow-clad volcanoes. Pierson, T.C., [1995,eng] 50-1655
- Evidence of paleoclimatic snow melt in lacustrine mountain deposits. Norris, R.D., et al. [1996,eng] 50-5082
- Extent of the Warta Glaciation deposits in the northern foreland of the Lublin upland near Dęblin. Zarski, M., [1993,pol] 50-3669
- Factors controlling suspended sediment transport in Himalayan glacier meltwaters. Hasnain, S.I., [1996,eng] 50-5688
- Formation of De geer moraines deposited subglacially, central Quebec. Beaudry, L.M., et al. [1995,eng] 50-5035
- Fresh water in Svalbard fjord ecosystems. Węśławski, J.M., et al. [1995,eng] 50-4137
- Glacial drainage towards the Mediterranean during the Middle and Late Pleistocene. Arkhipov, S.A., et al. [1995,eng] 50-1799
- Glacial landforms of Glen Geusachen. Bennett, M.R., et al. [1991,eng] 50-3034
- Glacier mass balances of Taylor Valley. Fountain, A.G., et al. [1994,eng] 50-3870
- Glacier resources in the Karakorum-Kunlun Mts. and their utilization. Su, Z., [1992,chi] 50-1489
- Glacier runoff in the Sarydzhaz River basin. Kononov, V.G., et al. [1991,rus] 50-16
- Glacimarine deposits in southwestern Sweden. Stevens, R.L., [1990,eng] 50-930
- Groundwater flow beneath ice sheets: part I—large scale patterns. Boulton, G.S., et al. [1995,eng] 50-2128
- Gulf of Mexico meltwater influx during Laurentide deglaciation. Marchitto, T.M., et al. [1995,eng] 50-340
- Heuristic model for sea level rise due to the melting of small glaciers. Wigley, T.M.L., et al. [1995,eng] 50-1215
- Hydraulic run-away: a mechanism for thermally regulated surges of ice sheets. Fowler, A.C., et al. [1995,eng] 50-1876
- Hydrochemical indicators of subglacial drainage system structure. Tranter, M., et al. [1996,eng] 50-6086
- Hydrochemical processes during snowmelt in a subalpine watershed, Colorado, USA. Peters, N.E., et al. [1995,eng] 50-2423
- Hydrochemical study of snow meltwater and snow cover. Suzuki, K., [1995,eng] 50-2404
- Hydrogeochemistry of Fraser River, British Columbia. Cameron, E.M., [1996,eng] 50-5815
- Hydrologic pathways in an alpine watershed. Mast, M.A., et al. [1995,eng] 50-2418
- Hydrology of a polythermal glacier, Erikbreen, northern Spitsbergen. Vatne, G., et al. [1995,eng] 50-3150
- Hydrology of Bregger Glacier, Spitsbergen. Kodama, Y., et al. [1995,eng] 50-3249
- Hydrology of glaciers. Menzies, J., [1995,eng] 50-3586
- Iceberg sediment deposits in a Greenland glacimarine setting. Syvitski, J.P.M., et al. [1996,eng] 50-5319
- Iceland glacier drainage and sandar formation. Heim, D., [1992,ger] 50-364
- Impact of glaciation on the groundwater regime of northwest Europe. Boulton, G.S., et al. [1996,eng] 50-5326
- Impact of subglacial geothermal activity on glacier meltwater quality. Lawler, D.M., et al. [1996,eng] 50-6087
- Impurities in surface meltwater from a Tian Shan glacier. Goto-Azuma, K., et al. [1995,eng] 50-613
- Inexpensive water collectors for study of surface water acidification during snowmelt. Gaskin, G.J., et al. [1995,eng] 50-1569
- Interaction between subglacial sediment and meltwater. Collins, D.N., [1996,eng] 50-6265
- International gaging station established on the Alsek River. Desch, N., et al. [1995,eng] 50-3752
- Interpretation of hydrochemical evidence for meltwater routing at a high arctic glacier. Hodgkins, R., et al. [1995,eng] 50-2432
- Isotopic analysis of groundwater in the Taklimakan Desert. Ushiki, H., et al. [1991,jpn] 50-1435
- Isotopic tracing of nitrate sources in snowmelt runoff. Kendall, C., et al. [1995,eng] 50-2426
- Late glacial sedimentation and history of the Lake Nipigon Basin, Ontario. Lemoine, R.M., et al. [1995,eng] 50-4880
- Laurentide ice sheet oscillations as cause of Atlantic Ocean Heinrich events. MacAyeal, D.R., [1993,eng] 50-2869
- Links between proglacial stream sediments and glacier motion. Willis, I.C., et al. [1996,eng] 50-6091
- Major, minor, and trace element chemistry of surface waters in the Everest region of Nepal. Reynolds, B., et al. [1995,eng] 50-2434
- Marine record of deglaciation from the continental margin off Nova Scotia. Keigwin, L.D., et al. [1995,eng] 50-3001
- Mass balance and runoff data at Gulkana Glacier, Alaska, 1992. March, R.S., et al. [1996,eng] 50-4603
- Mass exchange between meltwater streams and proglacial deposits. Holmlund, P., et al. [1996,eng] 50-6241
- Meadow ecology in the polar Urals, Russia. Gorchakovskii, P.L., et al. [1996,eng] 50-5482
- Meltwater drainage patterns from alpine glaciers. Collins, D.N., [1995,eng] 50-2430
- Meltwater event in the North Atlantic during last glacial maximum. Seidov, D., et al. [1996,eng] 50-6217
- Meltwater generation, infiltration and runoff from the Greenland ice sheet. Zou, J.H., [1993,eng] 50-699
- Microbiological activity in thermoglacial karst springs, South Spitsbergen. Lauritzen, S.E., et al. [1995,eng] 50-1403
- Middle and Late Pleistocene evolution of the Bear Island Trough Mouth Fan. Laberg, J.S., et al. [1996,eng] 50-5322
- Morphological-paleogeographical features of the Warta Glaciation relief in the Rawka River lobe. Klajnert, Z., [1993,pol] 50-3657
- Nitrogen deposition and release in alpine watersheds, Loch Vale, Colorado, USA. Campbell, D.H., et al. [1995,eng] 50-2416
- Odor removal processes for ice-covered river runoff. Hrudý, S.E., et al. [1995,eng] 50-1524
- Paleoceanographic surface water variations derived from ice-rafted sediments. Maslin, M.A., et al. [1995,eng] 50-565
- Pesticide degradation in an arctic lake and watershed. Falconer, R.L.M., et al. [1995,eng] 50-1131
- Planktonic communities of melt ponds on the McMurdo Ice Shelf, Antarctica. James, M.R., et al. [1995,eng] 50-1282
- Postglacial development of river valleys in the middle part of the northern slope of Pomerania. Florek, W., [1991,pol] 50-4940
- Potentials for utilization of hydroelectric resources in Greenland. Taagholt, J., [1995,eng] 50-2963
- Purification kit for potabilizing meltwater. Gopal, R., et al. [1991,eng] 50-3402
- Qinghai Lake paleohydrological variations due to climatic changes. Nakao, K., et al. [1995,eng] 50-6718
- Reduced Laurentide meltwater outflow. de Vernal, A., et al. [1996,eng] 50-5523
- Regional-scale meltwater erosion and deposition patterns, northern Quebec, Canada. Brennand, T.A., et al. [1996,eng] 50-6244
- Release of major ions and hydrogen peroxide from homogeneous, melting snow. Herrmann, R., et al. [1995,eng] 50-4014
- Relevance of glacial bed debris to glacial mechanics. Gow, A.J., et al. [1996,eng] 50-6251
- Role of electrified ice meltwater in thunderstorms. Kamra, A.K., et al. [1984,eng] 50-4923
- Runoff modeling of a debris-covered glacier in Nepal. Rana, B., et al. [1996,eng] 50-5509
- Russian soil depletion by snowmelt. Chernyshev, E.V., et al. [1995,eng] 50-2148
- Seasonal variations in arctic glacier sediment transport. Hodgkins, R., [1996,eng] 50-6253
- Seasonal variations of stream water chemistry in Spitsbergen. Potschun, M., et al. [1994,ger] 50-1587
- Sediment transport in glacial meltwater streams. Østrem, G., [1975,eng] 50-4809
- Sedimentation and physical limnology in proglacial Malaspina Lake, southeastern Alaska. Gustavson, T.C., [1975,eng] 50-4817
- Sedimentation at a tidewater glacier in Arthur Harbor. Ashley, G.M., et al. [1994,eng] 50-2223
- Sedimentation in glacier-fed Peyto Lake. Chikita, K., [1992,eng] 50-6642
- Sediments in the Liefdefjord and Woodfjord of Spitsbergen. Kroemer, E.A., et al. [1994,eng] 50-1580
- Simulation of abrupt climate changes. Manabe, S., et al. [1995,eng] 50-1520
- Simulation of runoff processes of a continental mountain glacier in the Tian Shan, China. Kang, E.S., et al. [1995,eng] 50-2439
- Snow and water chemistry of a headwater alpine basin. Unumugi River, Tian Shan, China. Liu, F.J., et al. [1995,eng] 50-2413
- Snow hydrological parameters for modelling river runoff. Kuchment, L.S., et al. [1996,eng] 50-5519
- Snowmelt and slush torrents in Swedish Lapland. Gude, M., et al. [1995,eng] 50-4188
- Snowmelt induced chemical changes in seven streams in the Sierra Nevada, California. Melack, J.M., et al. [1995,eng] 50-2414
- Snowpack influences on geomorphic processes in Green Lakes Valley, Colorado Front Range. Caine, N., [1995,eng] 50-1404
- Soil properties beneath ceanthus and pine stands in the eastern Sierra Nevada. Johnson, D.W., [1995,eng] 50-630
- Soil-to-snow movement of synthetic organic compounds in natural snowpack. Hogan, A., et al. [1995,eng] 50-2403
- Solution and stability of natural convective snow in a melt puddle. Bogorodskii, P.V., [1995,eng] 50-2067
- Spectrometric detection of chloride ions in snow. Vanchikova, E.V., et al. [1995,eng] 50-3791
- Stable isotopes as hydrologic tracers in South Cascade Glacier. Vaughn, B.H., [1994,eng] 50-5546
- Streamflow generation in a headwater basin on the Precambrian Shield. Weis, C., et al. [1991,eng] 50-3680
- Subglacial chemical erosion in a Swiss mountain glacier. Brown, G.H., et al. [1996,eng] 50-6236
- Subglacial meltwater composition sampled through boreholes. Lamb, H.R., et al. [1995,eng] 50-2433
- Sulphur biogeochemistry in meltwater ponds on the McMurdo Ice Shelf. De Mora, S.J., et al. [1996,eng] 50-3577
- Supraglacial sediment accretion in Icelandic glaciers. Näsund, J.O., et al. [1996,eng] 50-4904
- Surface-based studies of microwave arctic sea ice signatures during end of summer and early autumn. Darovskikh, A.N., [1995,eng] 50-2065
- Temperature evolution of a chemically stratified lake. Spigel, R.H., et al. [1996,eng] 50-6333
- Tien Shan: trends of changes in the geocryological conditions. Gorbunov, A.P., et al. [1996,rus] 50-6841
- Towards a hydrological model for computerized ice-sheet simulations. Alley, R.B., [1996,eng] 50-6092
- Tracer experiments to determine subglacial pressurized flow in Storglaciären. Kohler, J., [1995,eng] 50-445
- Tracer study of glacial drainage variations in Switzerland. Nienow, P., et al. [1996,eng] 50-5580
- Transit time of meltwaters in alpine glaciers. Collins, D.N., [1995,eng] 50-2429
- Tunnel valley genesis. Cofaigh, C.O., [1996,eng] 50-5012
- Upward flushing of sea water through first year sea ice. Hudier, E.J.J., et al. [1995,eng] 50-4210
- Use of sulfur-35 and tritium to study runoff from an alpine glacier. Wind River Range, Wyoming. Michel, R.L., et al. [1995,eng] 50-2437
- Variations in Atlantic Ocean surface paleoceanography. Samthein, M., et al. [1995,eng] 50-3003
- Vertical motion and ice thickness variation in western North America. Trupin, A.S., et al. [1996,eng] 50-3068
- Water chemistry and periphyton in an alpine wetland. Tetz, D., [1995,eng] 50-4161
- Water movement in wet snow. Gray, J.M.N.T., [1996,eng] 50-3727
- Water, ice, and meteorological measurements, South Cascade Glacier, 1994. Krimmel, R.M., [1995,eng] 50-53
- Weathering of aeolian dusts in alpine snows. Delmas, V., et al. [1996,eng] 50-4588
- Weathering of aeolian dusts in alpine snows. Delmas, V., et al. [1996,eng] 50-4588
- Winter ice in Okhotsk Sea and spring and summer climate in north Japan. Yamada, Y., [1996,jpn] 50-5903
- See also: Snowmelt
- Metal ice friction**
- Apparatus and method for powered thermal friction adjustment. Tabar, W.J., [1995,eng] 50-3462
- Influence of cavitation on icebreaker propellers. Walker, D., et al. [1995,eng] 50-200
- Investigation of ice-resistant coatings used to protect ice-breaker hull. Babxsev, V.A., et al. [1995,eng] 50-201
- Non-contact loads on propellers in ice-blocked flows. Luznik, L., et al. [1995,eng] 50-2941
- Optimal design of bow plating for ships operating in ice. Brown, P.W., [1993,eng] 50-378
- Potential resistance of the Kara Sea ice cover. Gavrilov, V.P., et al. [1995,eng] 50-185
- Pressure melting and ice skating. Colbeck, S.C., [1995,eng] 50-408
- Simulation of ship-ice collision dynamics.** Phillips, L.D., [1994,eng] 50-5670
- Velocity dependence of ice failure load in a 2-dimensional ship model.** Adachi, M., et al. [1996,eng] 50-5878
- Metal snow friction**
- Apparatus and method for powered thermal friction adjustment. Tabar, W.J., [1995,eng] 50-3462
- Metals**
- Aluminum anodes used in cold saline environments. Schriber, C.F., [1996,eng] 50-5955
- Analysis of energy balance and technical progress in the non-ferrous metallurgy industry. Panin, A.P., et al. [1992,rus] 50-713

Metamorphism (snow)

Meteorological factors

- Anisotropy in the adsorption of H₂O at low coordination sites on Pt(111). Morgenstern, M., et al. [1996,eng] 50-6199
- Arsenic pollutants in Pechora Sea sediments. Loring, D.H., et al. [1995,eng] 50-1829
- Biogeochemical cycling in a seasonally anoxic lake. Hamilton-Taylor, J., et al. [1996,eng] 50-5818
- Biogeochemistry of heavy metals in the Arctic. Dobrovolskii, V.V. [1995,rus] 50-3971
- Bismuth in recent snow from central Greenland: preliminary results. Candelone, J.P., et al. [1995,eng] 50-779
- Carboniferous siliceous rock and its relation to metallic sulfide deposits in northern Xinjiang. Yang, W.H., et al. [1993,chi] 50-2358
- Changes in trace element speciation in Kola north surface waters during snow melt. Rodushkin, I.V., et al. [1995,eng] 50-4080
- Chemical correlates of Hg and methyl-Hg in northern Wisconsin lake waters under ice-cover. Watras, C.J., et al. [1995,eng] 50-2125
- Comparison criteria for environmental chemical analyses of split samples sent to different laboratories. Grant, C.L., et al. [1996,eng] 50-5912
- Development of procedures for hot tap welding onto sour service pipelines. Felix, R.D., et al. [1991,eng] 50-1724
- Dispersal of metal-contaminated sediments in an arctic river. Sear, D., et al. [1996,eng] 50-6516
- Distribution of metals in Laptev Sea pore waters. Langner, C., [1995,eng] 50-2103
- Ecogeochemical investigations, Kola Peninsula: sulphur and trace element content in snow. Äyräs, M., et al. [1995,eng] 50-4081
- Effect of river-ice break-up on suspended sediment and select trace-element fluxes. Milburn, D., et al. [1994,eng] 50-5698
- Effects of smelter emissions on pine tree frost hardness. Sutinen, M.L., et al. [1996,eng] 50-4309
- Ferromanganese nodules of the Kara Sea. Bogdanov, I.U.A., et al. [1995,eng] 50-3547
- Freezing and melting of mercury in porous glass. Kumzerov, I.U.A., et al. [1995,eng] 50-1132
- Glacial deposit geochemistry at a Manitoba mining site. Nielsen, E., et al. [1991,eng] 50-3911
- Heavy metal concentrations in peat profiles from the high Arctic. Headley, A.D., [1996,eng] 50-3721
- Ice/metal interfaces: fracture energy and fractography. Wei, Y., et al. [1996,eng] 50-5243
- Indicators of soil polluted by heavy metals. El'kina, G.I.A., et al. [1994,rus] 50-274
- Labile dissolved forms of heavy metals in the Kara Sea waters. Kravtsov, V.A., et al. [1995,eng] 50-3534
- Lichen accumulation of airborne metals adjacent to a lead-zinc mine. Pilgaard, K., [1994,eng] 50-5604
- Mafic intrusive body bearing Cu-Ni mineralization in Xinjiang. Yuan, Q.L., et al. [1993,chi] 50-2376
- Magmatic activities and its relation to tectonic setting and gold mineralization in western Junggar. Jin, C.W., et al. [1993,chi] 50-2360
- Mathematical model of pollution vectors in the arctic basin. Kravtsov, V.F., et al. [1996,eng] 50-3412
- Mechanical properties of materials at low temperatures. Wigley, D.A., [1968,eng] 50-6049
- Metal hydrolysis on a deeply cooled ice surface. Winter, H., et al. [1995,eng] 50-1102
- Metallogenic geology and geochemistry related to Eriv volcanism. Liu, T.G., et al. [1993,chi] 50-2375
- Metallogenic mechanism of Cu in Altay. Li, Z.C., [1993,chi] 50-2374
- Metallogenic mechanism of tungsten deposit in Alatau. Wang, K.R., et al. [1993,chi] 50-2373
- Overlapping mineralization of Karatongki Cu-Ni deposit. Zhan, X.Z., [1993,chi] 50-2377
- Pb isotope province and geochemical prospecting in northern Xinjiang. Zhu, B.Q., et al. [1993,chi] 50-2354
- Pb-Zn-Au deposits in Carboniferous strata of northern Xinjiang. Yang, W.H., et al. [1993,chi] 50-2357
- Problems of metallogeny of the Arctic. Dodin, D.A., et al. [1994,eng] 50-1207
- Rapid screening of metals using portable high-resolution x-ray fluorescence spectrometers. Hewitt, A.D., [1995,eng] 50-1075
- Recent air pollution variations inferred from Greenland ice sheet heavy metal concentrations. Candelone, J.P., et al. [1995,eng] 50-590
- Regional metallogenic model of Alatau region. Man, F.S., et al. [1993,chi] 50-2372
- Requirements for heap leaching under permafrost conditions. Pitsyn, A.B., [1995,eng] 50-418
- Sorption and leaching of trace-level metals by polymeric well casings. Ranney, T.A., et al. [1996,eng] 50-5911
- Stable isotopic character of mineralization of some deposits in northern Xinjiang. Zhang, G.X., et al. [1993,chi] 50-2378
- Transformation of an enzyme pool in cultivated podsol soil. Freger, V.M., [1994,rus] 50-279
- VII. Contents of Cu, Mn, Zn, Pb and Cd in plants and soil on Western Spitsbergen—Bellsund region. Jóźwik, Z., et al. [1993,eng] 50-2188
- X ray fluorescence screening for metals in soil. Hewitt, A.D., [1995,eng] 50-2442
- See [also]: Gold; Steels
- Metamorphism (snow)**
- Development and stability of preferential flow paths in a layered snowpack. Schneebeli, M., [1995,eng] 50-2402
- Dielectric measurement of snow by means of parallel line capacitor. Takei, I., [1996,jpn] 50-3504
- Geometry of heat and mass transfer in dry snow: a review of theory and experiment. Arons, E.M., et al. [1995,eng] 50-1401
- Grain-scale mechanisms influencing the elution of ions from snow. Cragin, J.H., et al. [1996,eng] 50-1975
- Mathematical model for calculating thermal conductivity of snow subject to metamorphism. Gavrilov, R.I., [1996,eng] 50-6497
- Proceedings. Workshop on Future Directions in Snow and Ice Research. Gallatin Gateway, MT, Oct. 3-4, 1995. [1995,eng] 50-4623
- Radar measurements of melt zones on the Greenland ice sheet. Jezek, K.C., et al. [1994,eng] 50-4804
- Relation of snowpack chemistry to streamwater composition. Shanley, J.B., et al. [1995,eng] 50-2425
- Snow crystal imaging using scanning electron microscopy: II. Metamorphosed snow. Rango, A., et al. [1996,eng] 50-4567
- Snowpack study in school. Chisholm, R.M., [1995,eng] 50-3122
- Steady-state convection in porous media and snow metamorphism. Klever, N., [1984,ger] 50-3840
- Technique for high time resolution snowpack dating. Braaten, D.A., [1995,eng] 50-776
- Test of the snow cover numerical model Crocus in avalanche forecasting. Mingo, L., [1995,eng] 50-4646
- Water movement in wet snow. Gray, J.M.N.T., [1996,eng] 50-3727
- Meteorological charts**
- Mapping of winter surface conditions at Camp Grayling, Michigan. Haugen, R.K., et al. [1992,eng] 50-738
- Meteorological conditions of the antarctic ozone hole. Cisneros, J.M., [1990,spa] 50-5527
- Ozone and NO₂ observations within the antarctic polar vortex. Gil, M., et al. [1990,spa] 50-5526
- Radiation and ozone data at Zhongshan and Great Wall stations, 1993-1994. Bian, L.G., et al. [1995,eng] 50-5916
- Snowfall intensity climatologies within the contiguous United States. Ryerson, C.C., [1991,eng] 50-763
- Study on some problems of cold waves in Xinjiang. Xu, J.Q., et al. [1985,chi] 50-2175
- Total ozone trends in the Southern Hemisphere: an update. Kane, R.P., [1993,eng] 50-563
- Meteorological data**
- Alberta Hail Project Data Archive available on the World Wide Web. Kochubajda, B., et al. [1996,eng] 50-5201
- Antarctic automatic weather station data for the calendar year 1994. Keller, L.M., et al. [1996,eng] 50-5806
- Antarctic journal of the United States, Vol.30, No.1-4. U.S. National Science Foundation, [1995,eng] 50-6499
- Antarctic Walk Environmental Research Expedition, 1991-1993. Yoshikawa, K., ed, et al. [1995,eng] 50-4381
- Atmospheric heat budget seasonal variations in 1988. Okada, I., et al. [1995,eng] 50-2581
- Atmospheric observing systems and their data management support structure. Stirling, L.M., [1994,eng] 50-3414
- Characteristics of Arctic Ocean climate based on COADS data, 1980-1993. Clark, M.P., et al. [1996,eng] 50-6545
- Choosing the route of overhead lines in the Czech Republic. Zálesák, Z., et al. [1996,eng] 50-5398
- Climate monitor. Vol.22 [1995,eng] 50-3351
- Climate of freezing rain over the province of Québec in Canada: a preliminary analysis. Laflamme, J.N., et al. [1996,eng] 50-5333
- Climate of Inner Mongolia. Wang, W.H., ed, [1990,chi] 50-2172
- Climate of the Qinghai-Xizang Plateau. Dai, J.X., ed, [1990,chi] 50-2173
- Climate of Xinjiang. Li, J.F., ed, [1991,chi] 50-2174
- Combined wind and ice loads from historical extreme wind and ice data. Krishnasamy, S., et al. [1996,eng] 50-5350
- Combined wind and ice loads on telecommunication towers in Quebec, Phase I. Elfashy, K., et al. [1996,eng] 50-5353
- Development of field technology and methods for forecasting snowfall and snow cover. [1989,jpn] 50-2041
- ECMWF analyses and predictions of the surface climate of Greenland and Antarctica. Genton, C., et al. [1995,eng] 50-1327
- Encyclopedia of climate and weather. [1996,eng] 50-4973
- Establishment of the GEN Automatic Weather Station (AWS) in Khumbu region, Nepal Himalayas. Ueno, K., et al. [1996,eng] 50-5511
- Estimating soil temperatures and frost in the lake effect snowbelt region, Michigan, USA. Isard, S.A., et al. [1995,eng] 50-1140
- Evaluation of SMMR satellite-derived snow depth using ground-based measurements. Tait, A., et al. [1996,eng] 50-4016
- Failures of overhead lines due to ice and wet snow in Serbia. Vučković, Z., et al. [1996,eng] 50-5365
- Forecasting avalanche risks in France—assessment and perspective. Pahaut, E., et al. [1995,fre] 50-4873
- Frost damage to northern trees during climatic warming. Hänen, H., [1996,eng] 50-6631
- Frost-free record reconstruction for eastern Massachusetts, 1733-1980. Baron, W.R., et al. [1984,eng] 50-4915
- Glaciers in the high Arctic and recent environmental change. Dowdeswell, J.A., [1995,eng] 50-5236
- Glaciological data collected by JARE-35, 1994-1995. Shiraiwa, T., et al. [1996,eng] 50-5804
- HIPLEX-1: statistical evaluation. Mielke, P.W., Jr., et al. [1984,eng] 50-4919
- Hydroclimatic data by Greenland Field Investigations. Scharling, M., et al. [1995,eng] 50-2966
- Ice accretion weight on overhead transmission line cables. Savadjiev, K., et al. [1996,eng] 50-5351
- Icefield Ranges climatology program: 1965 data presentation and programming analysis. Marcus, M.G., et al. [1966,eng] 50-3975
- IEC TC11 WG11—report on meteorological data for assessing climatic loads. Ervik, M., et al. [1996,eng] 50-5347
- Impact of potential TV tower icing on a nearby proposed expressway. Courtney, F.E., [1993,eng] 50-6664
- JARE-33 activities in summer 1991-1992 and winter 1992. Fukuchi, M., et al. [1996,jpn] 50-6348
- Major weather features at the Great Wall Station. Jiang, D.Z., et al. [1989,chi] 50-6768
- Mean annual air temperature trends since 1904 in the South Shetland Islands. Han, J.K., et al. [1995,chi] 50-5639
- Measuring snow particle size from video radar images. Hatanaka, M., et al. [1995,eng] 50-2579
- Meteorological events on the Italian Alps during the winter of 1993-94. Costantini, N., et al. [1994,ita] 50-1561
- Meteorological factors in the Himalaya Mountains, March through May. Wen, C.J., et al. [1982,chi] 50-6610
- Meteorological observations at Showa Station by JARE-33 in 1992. Matsuhara, K., et al. [1995,jpn] 50-4554
- Neumayer weather data: 1992, 1993, 1994. König-Langlo, G., et al. [1996,eng] 50-4083
- On using historical comparisons in evaluating cloud seeding operations. Gabriel, K.R., et al. [1983,eng] 50-4492
- Ozone and NO₂ observations within the antarctic polar vortex. Gil, M., et al. [1990,spa] 50-5526
- Ozone hole and the 1995 Nobel Prize in chemistry. Berger, A., [1996,fre] 50-5924
- Ozone in northern Europe and in Antarctica, 1987-1990. Taalas, P., [1992,eng] 50-5272
- Passive microwave snow research in the Canadian High Arctic. Gan, T.Y., [1996,eng] 50-5540
- Proceedings of the NIPR Symposium on Polar Meteorology and Glaciology, No.9. Watanabe, O., ed, NIPR Symposium on Polar Meteorology and Glaciology, 17th, Tokyo, July 13-14, 1994, [1995,eng] 50-2574
- Recent trends in maximum and minimum temperature threshold exceedances in the northeastern United States. DeGaetano, A.T., [1996,eng] 50-6572
- Simple model for freezing rain ice loads. Jones, K.F., [1996,eng] 50-5399
- Solar irradiance, air pollution and temperature changes in the Arctic. Stanhill, G., [1995,eng] 50-5231
- Stability criteria in avalanche hazard forecasting. Perla, R., [1969,eng] 50-4260
- Study of heavy snowfall in Tohoku District. [1989,jpn] 50-2040
- Study on estimating snow cover. [1983,jpn] 50-2042
- Study on snowmelt runoff prediction using weekly weather forecast. Hatta, S., et al. [1995,eng] 50-1959
- Study on some problems of cold waves in Xinjiang. Xu, J.Q., et al. [1985,chi] 50-2175
- Temperature conditions in Iceland and the North Atlantic, 1901-1990. Einarsson, M.A., [1993,eng] 50-4770
- User capabilities of the Defense Meteorological Satellite Program. Scharfen, G.R., et al. [1994,eng] 50-4792
- Weather in the Himalaya Mountains, March through May. Qian, Z.J., [1982,chi] 50-6609
- Year-round column ozone observations at 65°S: validation and polar winter data. Jones, A.E., et al. [1995,eng] 50-3524
- Meteorological factors**
- Automated aircraft icing forecast technique project report. Manur, M.V., [1984,eng] 50-4619
- Aviation meteorology for visual and instrument flight rules: aircraft icing. McCool, K.B., [1992,eng] 50-3706
- Climate of western Siberia: past and future. Bukreeva, G.F., et al. [1995,eng] 50-6583
- Comments on paper by Dey et al. Ropelewski, C.F., et al. [1984,eng] 50-4916
- Energy balance of snow and partially snow covered areas in western Greenland. Harding, R.J., et al. [1995,eng] 50-5088
- Energy—water—mass balance and hydrological discharge. Kang, E.S., [1994,eng] 50-5576
- Ice-crystal fogs of central Sakha. Osipov, D.A., [1995,eng] 50-4702
- International Conference on Global Change and Arctic Terrestrial Ecosystems—recommendations. Arctic Global Change Conference, Oppdal, Norway, Aug. 21-26, 1993. [1993,eng] 50-3331
- Long-term snow variations at Nagasaki, Japan. Nakamura, T., et al. [1996,eng] 50-4898
- Manganese and other trace elements in urban snow near an expressway. Loranger, S., et al. [1996,eng] 50-5776
- Meteorological factors in the Himalaya Mountains, March through May. Wen, C.J., et al. [1982,chi] 50-6610
- Micrometeorological effects on alpine vegetation reproduction. Bergman, P., et al. [1996,eng] 50-5494
- Multilingual vocabulary—snow and avalanches. International Mountain Rescue Commission, [1991,eng] 50-5292
- Numerical avalanche hazard forecast for the next day. Durand, Y., et al. [1995,fre] 50-4666
- Prediction of slushflow hazard—research project in Rana, Norway. Hestnes, E., et al. [1995,eng] 50-4094

Meteorological instruments

- Reduction of weather effects in the calculation for sea-ice concentration with the DMSP SSM/I. Cavalieri, D.J., et al. [1995,eng] 50-1867
- Response of a research aircraft to icing and evaluation of severity indices. Politovich, M.K. [1996,eng] 50-4406
- Results from the 1994 Boreal Ecosystem-Atmosphere Study (BOREAS). Sellers, P., et al. [1995,eng] 50-4574
- Snow and avalanche. Annual report 1994-95. Colorado Avalanche Information Center, [1995,eng] 50-4308
- Snow evaporation from Spitsbergen tundra surfaces. Takeuchi, Y., et al. [1995,eng] 50-3250
- Snow parameters for vehicle mobility modeling. Horrigan, T., et al. [1995,eng] 50-2708
- Structure and evolution of winter cyclones in the central United States and their effects on the distribution of precipitation. Part II: arctic fronts. Wang, P.Y., et al. [1995,eng] 50-1565
- Temporal analysis of ERS-1 SAR backscatter for hydrology applications. Crevier, Y., et al. [1996,eng] 50-5543
- Tests on the thermal behavior of steel in polar conditions (North Geographic Pole). Aguirre-Puente, J., et al. [1990,spa] 50-5528
- Weather and snowpack conditions essential to slushflow release and downslope propagation. Hestnes, E., et al. [1994,eng] 50-403

Meteorological instruments

- Airborne Polar Experiment. CNR Direzione Centrale Attività Scientifiche, [1994,eng] 50-6197
- Arctic buoys send data around the world. [1992,eng] 50-6094
- Automatic weather station for detecting desertification and climatic change. Fujitani, T., et al. [1991,jpn] 50-1438
- Calibration of a small, low-cost thermal infrared radiometer. Rapiet, C.B., et al. [1996,eng] 50-6623
- Cloud observations with a polarimetric 33 GHz and 95 GHz radar. Sekelsky, S.M., et al. [1996,eng] 50-4601
- Comments on paper by P.S. Anderson. Makkonen, L., et al. [1996,eng] 50-6587
- Design of an anemometer for extreme conditions. Krynski, L., et al. [1996,eng] 50-4028
- Diode laser humidity sensor for cold environments. Phase II final technical report. Silver, J.A., et al. [1991,eng] 50-4525
- Direct measurements of atmospheric ozone at Zhongshan Station, Antarctica. Kong, Q.X., et al. [1996,chi] 50-5679
- Doppler spectroscopy of antarctic wind velocities. Nakajima, H., et al. [1995,eng] 50-3811
- Efficacy of ice detector hoarfrost observations. Ryerson, C.C., et al. [1996,eng] 50-4033
- Focus 2000: wind, ice, and fog. Annual Mount Washington Observatory Symposium, 4th. North Conway, NH, June 23-24, 1995. [1996,eng] 50-4027
- Glaciological data collected by JARE-35, 1994-1995. Shiraiwa, T., et al. [1996,eng] 50-5804
- High-resolution ultraviolet spectral irradiance monitoring in polar regions. Booth, C.R., et al. [1994,eng] 50-4242
- High-resolution ultraviolet spectral irradiance monitoring program in polar regions. Booth, C.R., et al. [1993,eng] 50-593
- How to measure the wind accurately in icing conditions. Kenyon, P.R., et al. [1996,eng] 50-4030
- Icing rate meter estimation of transmission line icing. McComber, P., et al. [1996,eng] 50-4031
- Innovations on a quartz crystal microbalance frost-point hygrometer. Kaluzhny, M., et al. [1995,eng] 50-414
- Mac Weather: improved meteorological support in Antarctica. Joseph, J.E., [1994,eng] 50-4285
- Measurements of ice and snow loads on the Tye Lake 138 kV line. Peabody, A.B., [1996,eng] 50-5346
- Measuring wind speed in freezing rain. Claffey, K.J., et al. [1996,eng] 50-4029
- Meteorological observations at Showa Station by JARE-33 in 1992. Matsuhara, K., et al. [1995,jpn] 50-4554
- Neumayer weather data: 1992, 1993, 1994. König-Langlo, G., et al. [1996,eng] 50-4083
- Observational study of the 93 "Ozone Hole" at Zhongshan Station, Antarctica. Zheng, X.D., et al. [1995,eng] 50-564
- Ozone in northern Europe and in Antarctica, 1987-1990. Taalas, P., [1992,eng] 50-5272
- Polar stratospheric clouds observed by lidar at McMurdo Station during the 1993 winter. Adriani, A., et al. [1994,eng] 50-4239
- Precipitation hydrometeor characterization by a CW Doppler radar. Duvernoy, J., et al. [1996,eng] 50-5165
- Results of the millimeter-wave instrument operated at Sevilleta, New Mexico. Otto, W.D., et al. [1996,eng] 50-5666
- Rotating multicylinder for measuring cloud water content and droplet size. Jones, K.F., et al. [1996,eng] 50-4032
- Satellites for monitoring climate change. Kelkar, R.R., [1994,eng] 50-4826
- Science news from The Ice: highlights from the 1994-1995 austral summer. Simarski, L., [1995,eng] 50-6500
- Spectroscopy of stratospheric trace gases at the South Pole. De Zafra, R.L., et al. [1994,eng] 50-4240
- Year-round column ozone observations at 65°S: validation and polar winter data. Jones, A.E., et al. [1995,eng] 50-3524
- See [also]: Anemometers; Hygrometers; Precipitation gauges; Radiation measuring instruments; Snow survey tools; Thermistors; Thermocouples

Meteorology

- Alpine meteorology—conference in Engelberg, Switzerland, September 1990. Davies, H.C., [1991,eng] 50-5439
- Antarctica. Warren, S.G., [1996,eng] 50-4975

- Archive of digital data from the Defense Meteorological Satellite Program (DMSP). Kroehl, H.W., et al. [1994,eng] 50-5076
- Geostrophic circulation of water in the vicinity of the meteorological vessel "M" in March-April 1987. Korotkov, S.V., [1992,rus] 50-1263
- Information booklet on the Arctic and Antarctic Research Institute (Russia). Mustafin, N.V., [1993,eng] 50-19
- Inter-diurnal variation of hydrometeorological elements of the Barents Sea. Girdiuk, G.V., [1992,rus] 50-1269
- Japanese antarctic activities for 1995-1996. Tokyo. National Institute of Polar Research, [1996,eng] 50-2608
- Methods for a structural processing of meteorological information. Dranitsa, I.U.P., [1992,rus] 50-1278
- Reservoirs of Central Asia. Nikitin, A.M., [1991,rus] 50-2518
- Symposium on Antarctic Logistics and Operations, 6th. Proceedings. Symposium on Antarctic Logistics and Operations, 6th. Rome, Italy, Aug. 29-31, 1994. [1994,eng] 50-4267
- United States arctic research plan: Biennial revision: 1996-2000. Meyers, C.E., et al. [1995,eng] 50-3243
- See [also]: Atmospheric physics; Glacial meteorology; Marine meteorology; Synoptic meteorology; Weather

Mexico, Gulf

- Gulf of Mexico meltwater influx during Laurentide deglaciation. Marchitto, T.M., et al. [1995,eng] 50-340

Mexico—Jamaica Glacier

- Geomorphic effects of the retreat of Jamaica Glacier, Pico de Orizaba Volcano (Mexico). Palacios, D., et al. [1996,eng] 50-5578

Microanalysis

- Atomic emission spectrometry of Greenland snow lead impurities. Lobiński, R., et al. [1995,eng] 50-4082
- Chemical characterization of individual aerosol particles in central Siberia. Van Malderen, H., et al. [1996,eng] 50-4966
- Effect of river-ice break-up on suspended sediment and select trace-element fluxes. Milburn, D., et al. [1994,eng] 50-5698
- Freeze preparation of plant tissue for electron microscopy. Adler, K., et al. [1996,eng] 50-5485
- Lead isotopic ratios in Greenland and antarctic snow and ice. Chisholm, W., et al. [1995,eng] 50-1256
- X-ray analysis of ion distribution in frozen salt droplets. Orlovich, D.A., et al. [1995,eng] 50-6590

Microbiology

- Abundance and production of bacteria and viruses in the Bering and Chukchi Seas. Steward, G.F., et al. [1996,eng] 50-4158
- Antarctic journal of the United States, Vol.30, No.1-4. U.S. National Science Foundation, [1995,eng] 50-6499
- Antarctic phytoplankton and DNA library from communities exposed to ultraviolet-B. Jovine, R.V.M., et al. [1994,eng] 50-4246
- Applications of bacterial ice nucleation activity in food processing. Watanabe, M., et al. [1995,eng] 50-3287
- Arctic bioremediation: a case study. Liddell, B.V., et al. [1991,eng] 50-1752
- Bacterial ecosystem dynamics in a high mountain lake. Alfreder, A., et al. [1996,eng] 50-5681
- Biochemistry of bacterial ice nuclei. Fall, R., et al. [1995,eng] 50-3274
- Biodiversity of gas vacuolate bacteria from antarctic sea ice and water. Gosink, J.J., et al. [1995,eng] 50-864
- Biogenic organic compounds in ponds on the McMurdo Ice Shelf. Schall, C., et al. [1996,eng] 50-3703
- Biogeochemical study in the Bellingshausen Sea: overview of the STERNA 1992 expedition. Turner, D.R., et al. [1995,eng] 50-1021
- Biological CO₂ pump in seasonally ice-covered waters. Legendre, L., [1996,eng] 50-6033
- Biological control of insect pests using ice-nucleating microorganisms. Lee, R.E., Jr., et al. [1995,eng] 50-3284
- Biological ice nucleation and its applications. Lee, R.E., Jr., et al. [1995,eng] 50-3270
- Biological phosphorus removal: effect of low temperature. Kumar, P., et al. [1996,eng] 50-4755
- Biological treatment of waste water containing glycols from deicing agents. Nitschke, L., et al. [1996,eng] 50-3619
- Characterization of a novel ice-nucleating bacterium. Kawahara, H., et al. [1995,eng] 50-1960
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995,eng] 50-1863
- Chlorophyll distribution in a body of fresh water covered with ice. Zavoruev, V.V., et al. [1996,eng] 50-5816
- Consumption of nitrogen compound from snowpack by microbiological activity. Suzuki, K., et al. [1996,jpn] 50-6728
- Diagnostics of glacial and glacial-marine deposits and relief forms in Spitsbergen. Luchinskai, T.N., et al. [1972,rus] 50-545
- Dirty oil makes a feast for soil bacteria. Kiernan, V., [1996,eng] 50-4872
- Distribution of bacterioplankton in the Kara Sea in September 1993. Mitsukevich, I.N., et al. [1995,eng] 50-3537
- Ecology and physiology of psychophilic bacteria from antarctic saline lakes and sea-ice. Nichols, D.S., et al. [1995,eng] 50-4086
- Ecology of ice nucleation-active bacteria. Hirano, S.S., et al. [1995,eng] 50-3273
- Effect of freezing of water samples on viable counts of environmental mycobacteria. Iivanainen, E., et al. [1995,eng] 50-1953

- Environmental factors influencing the biodegradation of petroleum hydrocarbons in cold seawater. Siron, R., et al. [1995,eng] 50-651
- Estimating ice-active bacterial population on mango leaves. Cazorla, F.M., et al. [1995,eng] 50-1652
- Fatty acid adaptation in an antarctic bacterium—changes in primer utilization. Nichols, D.S., et al. [1996,eng] 50-4797
- Fluorimetric assessment of bacteria after freeze-thawing. Puchkov, E.O., et al. [1995,eng] 50-5865
- Freshwater impact on Hudson bay ecosystems under sea ice, pt.2. Legendre, L., et al. [1996,eng] 50-4020
- Great lake under the ice. Ellis-Evans, J.C., et al. [1996,eng] 50-5601
- Hydrogen sulfide forecasting techniques for the Kuparuk River Field. Frazer, L.C., et al. [1991,eng] 50-1729
- Ice active bacteria gene dynamics. Drains, C., et al. [1995,eng] 50-2347
- Ice nucleation genes as reporters. Panopoulos, N.J., [1995,eng] 50-3285
- Ice nucleation-active genes and proteins. Warren, G.J., [1995,eng] 50-3275
- Ice-covered temperate lake limnology. Agbeti, M.D., et al. [1995,eng] 50-739
- Ice-nucleation properties of various bacterial species. Kiprianova, E.A., et al. [1995,eng] 50-3673
- In situ bioremediation in arctic Canada. Carss, J.G., et al. [1994,eng] 50-1472
- Inter-annual variability in marine coastal antarctic bacterioplankton. Delille, D., et al. [1996,eng] 50-4006
- Life forms in antarctic sea ice. Dahms, H.U., [1992,ger] 50-646
- Lipid geochemistry of the Kara Sea bottom sediments. Beliaeva, A.N., et al. [1996,eng] 50-4867
- Marine snow in antarctic coastal waters. Marchant, H.J., et al. [1996,eng] 50-6034
- Mesoplankton of the west Kara Sea and the Baidara Bay. Vinogradov, M.E., et al. [1995,eng] 50-3538
- Microbial biology of melting Weddell Sea ice. Gleitz, M., et al. [1996,eng] 50-5677
- Microbial sea ice ecology at a coastal antarctic site. Archer, S.D., et al. [1996,eng] 50-5456
- Microbiological activity in thermoglacial karst springs. South Spitsbergen. Lauritzen, S.E., et al. [1995,eng] 50-1403
- Microfaunal response to fertilization of an arctic tundra stream. Rublee, P.A., et al. [1995,eng] 50-870
- Microorganisms sustaining large animals in seasonally ice-covered seas. Legendre, L., [1996,eng] 50-5907
- Microplankton bloom dynamics in McMurdo Sound, Antarctica. Stoecker, D.K., et al. [1993,eng] 50-3394
- Molecular modeling of the three-dimensional structure of bacterial Ipa proteins. Kajava, A.V., [1995,eng] 50-3276
- Morphometry of bacterioplankton cells in the Barents Sea. Baitaz, V.A., et al. [1995,rus] 50-4203
- Oil combating in a cold environment using bioremediation techniques. Rytönen, J., et al. [1995,eng] 50-169
- Parasitic protozoans in North Slope drinking water. Pollen, M.R., et al. [1996,eng] 50-6148
- Pelagic bryozoan from Antarctica. Peck, L.S., et al. [1995,eng] 50-1827
- Performance of lagoons experiencing seasonal ice cover. Price, D.S., et al. [1995,eng] 50-2124
- Permafrost microbiology. Gilichinskii, D.A., et al. [1996,rus] 50-6372
- Pesticide degradation in an arctic lake and watershed. Falconer, R.L.M., et al. [1995,eng] 50-1131
- Plankton dynamics in the Barents Sea marginal ice zone. Hansen, B., et al. [1996,eng] 50-3528
- Primary productivity and microbial variations in the Chukchi Sea. Costa, G.F., et al. [1996,eng] 50-5457
- Siberian oil eating bacteria. [1991,eng] 50-4378
- Snow algae microbiology related to ultraviolet radiation effects. Thomas, W.H., et al. [1995,eng] 50-2814
- Subarctic lake pollution by gold mine arsenic effluent. Bright, D.A., et al. [1996,eng] 50-4207
- Sulphur biogeochemistry in meltwater ponds on the McMurdo Ice Shelf. De Mora, S.J., et al. [1996,eng] 50-3577
- Tardigrada of the arctic tundra with descriptions of two new species. Maucci, W., [1996,eng] 50-5293
- Tardigrades of the Taimyr peninsula with descriptions of two new species. Biserov, V.I., [1996,eng] 50-5294
- TEM and SEM studies of organic forms in anthraxolite coal from Krakken (Spitsbergen). Czerny, J., et al. [1993,eng] 50-2198
- Transduction of *ina* genes for bacterial identification. Wolber, P.K., et al. [1995,eng] 50-3286
- See [also]: Bacteria; Cryobiology; Soil microbiology

Microclimatology

- Beetle microhabitat distribution in a glacier ablation zone. Gerben, B.A., [1995,eng] 50-2812
- Data filtering for thermal mapping of road surface temperatures. Shao, J., et al. [1995,eng] 50-775
- Effect of microclimate on road superstructures. Final report. Dysli, M., et al. [1986,fre] 50-3320
- Environmental biology of a tropical tree line species, *Polylepis sericea*. Goldstein, G., et al. [1994,eng] 50-3050
- Full-glacial shoreline vegetation during the maximum highstand at Owens Lake, California. Koehler, P.A., et al. [1994,eng] 50-1543
- Growth dynamics and population development in an alpine grassland under elevated CO₂. Schappi, B., [1996,eng] 50-5779

Microelement content

- Growth responses of an alpine grassland to elevated CO₂. Schappi, B., et al. [1996,eng] 50-5771
- Initial assessment of multi-scale measures of CO₂ and H₂O flux in the Siberian taiga. Hollinger, D.Y., et al. [1995,eng] 50-3810
- Low summer temperatures: a potential mortality factor for high arctic soil microarthropods? Coulson, S.J., et al. [1995,eng] 50-1178
- Microclimate of agricultural buildings—I. Bodrov, V.I., [1995,rus] 50-3442
- Microclimatic models, estimation of solar radiation and evaporation over land surfaces. Heikinheimo, M., et al. [1994,eng] 50-3186
- Micrometeorological effects on alpine vegetation reproduction. Bergman, P., et al. [1996,eng] 50-5494
- Morphological and physiological radiation in páramo *Draba*. Pfisch, W.A., [1994,eng] 50-3051
- Mountain hemlock expansion in a subalpine ecosystem. Taylor, A.H., [1995,eng] 50-3321
- On the connexion of vegetation dynamics with climatic changes in High Asia. Miehe, G., [1996,eng] 50-5089
- Páramo microclimate and leaf thermal balance of Andean giant rosette plants. Meinzer, F.C., et al. [1994,eng] 50-3046
- Pliocene paleoclimate of Dry Valleys of Southern Victoria Land. Marchant, D.R., et al. [1996,eng] 50-6629
- Radiation frost susceptibility and the association between sky exposure and leaf size. Jordan, D.N., et al. [1995,eng] 50-2132
- Responses of arctic polar desert plant litter chemistry to climatic changes. Robinson, C.H., et al. [1995,eng] 50-5100
- Seed rain, seedling establishment and clonal growth strategies on a glacier foreland. Stöcklin, J., et al. [1996,eng] 50-5295
- Shrub ecology in an arctic landscape. Elvebak, A., et al. [1995,eng] 50-6070
- Snow evaporation from Spitsbergen tundra surfaces. Takeuchi, Y., et al. [1995,eng] 50-3250
- Spatial energy budgets in alpine tundra. Greenland, D., [1993,eng] 50-4802
- Spectral quality and absorption of solar radiation in a mountain birch forest, Abisko, Sweden. Ohved, M., et al. [1995,eng] 50-2813
- Thermal environments of arctic soil organisms during winter. Coulson, S.J., et al. [1995,eng] 50-2811
- See [also]: Indoor climates

Microelement content

- Atomic emission spectrometry of Greenland snow lead impurities. Łobinski, R., et al. [1995,eng] 50-4082
- Labile dissolved forms of heavy metals in the Kara Sea waters. Kravtsov, V.A., et al. [1995,eng] 50-3534
- Some questions of the Pleistocene sedimentation of the Barents Sea shelf. Tarasov, G.A., [1993,eng] 50-2213
- VII. Contents of Cu, Mn, Zn, Pb and Cd in plants and soil on Western Spitsbergen—Bellsund region. Jóźwik, Z., et al. [1993,eng] 50-2188

Microrelief

- Cold acclimation of rye leaves during freeze/thaw cycles. Uemura, M., et al. [1995,eng] 50-3343
- Electron scanning of Quaternary deposit grain shape. Molnár, B., et al. [1995,eng] 50-1040
- Engineering-geocryological regionalization of Tazov Peninsula. Belopukhova, E.B., et al. [1983,rus] 50-308
- Geobotanical maps as an aid in assessing surface impacts. Everett, K.R., et al. [1994,eng] 50-304
- Morphoscopy and morphometry of quartz grains from loess and buried soil layers. Velichko, A.A., et al. [1995,eng] 50-1038
- Pleistocene glacier thicknesses inferred from electron microscopy of till microtextures. Mahaney, W.C., [1995,eng] 50-3365
- Rational methods of using and recultivating agricultural terrain in Northeastern Russia. Pugachev, A.A., et al. [1994,rus] 50-287
- Snow cover and microrelief. Fukuoka, Y., [1988,jpn] 50-2046
- Soil geomorphology on Alaskan permafrost terrain. Swanson, D.K., [1996,eng] 50-6518

Microscope slides

- Variations on the Schaeffer replication technique for snowflakes. Benko, J.J., [1995,eng] 50-3613
- See [also]: Thin sections

Microscopy

- See [also]: Electron microscopy; Scanning electron microscopy

Microstructure

- Arctic plant chloroplast adaptation to low temperatures. Miroslavov, E.A., et al. [1996,eng] 50-6756
- Classification uncertainties within foraminifera species in McMurdo Sound, Antarctica. Bowser, S.S., et al. [1995,eng] 50-3345
- Cloud condensation nuclei over the Arctic Ocean in early spring. Hegg, D.A., et al. [1995,eng] 50-348
- Creep of frozen soil by damage mechanics. Miao, T.D., et al. [1995,eng] 50-1556
- Creep, shrinkage, frost, and sulphate resistance of high strength concrete. Ghosh, S., et al. [1995,eng] 50-577
- Cryo-ultramicrotomy of individual latex particles for examination of internal morphology. Marcelli, A.M., [1995,eng] 50-4958
- Effects of plant cellular tissue structure on freezing tolerance. Fujikawa, S., et al. [1996,eng] 50-5675
- Electron microscopy of frozen pea leaf cellular microstructure. Kaneko, Y., et al. [1996,eng] 50-5252

- Fabric signature of subglacial till deformation. Breidamerkurjökull, Iceland. Benn, D.I., [1995,eng] 50-3863
- Forecasting service life of frost-penetrated concrete. Fagerlund, G., [1996,eng] 50-4788
- Freeze preparation of plant tissue for electron microscopy. Adler, K., et al. [1996,eng] 50-5485
- Geometry of heat and mass transfer in dry snow: a review of theory and experiment. Arons, E.M., et al. [1995,eng] 50-1401
- Glacial crushing, weathering and diagenetic histories of quartz grains. Mahaney, W.C., [1995,eng] 50-3595
- Grass photosynthesis variations under cold climatic conditions. Siutkina, A.V., et al. [1996,eng] 50-6754
- High strength concrete—freeze/thaw testing and cracking. Jacobsen, S., et al. [1995,eng] 50-3700
- Ice content retrieval from clouds using Doppler radar. Sauvageot, H., [1996,eng] 50-2772
- Mechanism of formation of nanocrystalline hematite prepared by freeze-drying. Bermejo, E., et al. [1995,eng] 50-4289
- Micro-solidification of solutions with supercooling. Hayashi, Y., [1996,eng] 50-6431
- Micromechanical study on deterioration of concrete due to freezing and thawing. Hori, M., et al. [1995,eng] 50-2684
- Micromorphology of basal till, Burroughs Glacier, Alaska. Ham, N.R., et al. [1995,eng] 50-3741
- Microscopy of xylem ray supercooling wood tissues response to freezing stress. Ristic, Z., et al. [1995,eng] 50-3341
- Microstructural changes in frozen sandy soil under confining pressures. Ma, W., et al. [1995,chi] 50-5623
- Microstructural features of freeze-thaw deterioration of concrete. Bakharev, T., et al. [1995,eng] 50-367
- Microstructure and thermal conductivity of a model snow cover. Sato, A., et al. [1995,jpn] 50-987
- Physical characteristics of arctic stratus clouds. Tsay, S.C., et al. [1984,eng] 50-4922
- Pleistocene slope deposits related to the Saint-Maurice Rhythmites, St. Lawrence Valley, Québec. Héu, B., et al. [1995,fre] 50-4883
- Results of black ice inhibiting filler use on asphalt test sections. Arand, W., [1995,ger] 50-2841
- Role of soil microstructure in the geotechnical properties of freezing soils. White, T.L., et al. [1996,eng] 50-6483
- SEM observations of the microstructure of frost deteriorated and self-healed concretes. Jacobsen, S., et al. [1995,eng] 50-3701
- Snow crystal imaging using scanning electron microscopy: I. Precipitated snow. Rango, A., et al. [1996,eng] 50-4566
- Snow crystal imaging using scanning electron microscopy: II. Metamorphosed snow. Rango, A., et al. [1996,eng] 50-4567
- Spectroscopic analysis of frozen cement paste microstructure. Olson, R.A., et al. [1995,eng] 50-1406
- Use of thermal analysis in the development of a better understanding of frozen food stability. Goff, H.D., [1995,eng] 50-3357
- See [also]: Ice microstructure

Microwaves

- Airborne imaging microwave radiometer—part I: radiometric analysis. Collins, M.J., et al. [1996,eng] 50-4763
- Asphaltic compositions and uses therefor. Long, H.W., [1995,eng] 50-3465
- Comparison between snow cover products derived from visible and microwave satellite observations. Basist, A., et al. [1996,eng] 50-3007
- Development of a portable ice-thickness measuring instrument. Glynn, D.P., et al. [1992,eng] 50-4908
- Effective permittivity microwave model for wet and frozen soils. Boarskii, D.A., et al. [1995,eng] 50-4215
- Evaluation of SSMR satellite-derived snow depth using ground-based measurements. Tait, A., et al. [1996,eng] 50-4016
- Field observations of microwave backscatter from Weddell Sea ice. Lytle, V.L., et al. [1996,eng] 50-3148
- ICESTAR: a spaceborne ice and coastal environment surveillance system. Cavalieri, D.J., et al. [1996,eng] 50-4482
- Improved use of passive microwave data for sea ice detection. Heygster, G.C., et al. [1992,eng] 50-225
- Intercomparisons of sea ice concentration from SSM/I and AVHRR data of the Ross Sea. Zibordi, G., et al. [1995,eng] 50-938
- Land surface studies and atmospheric effects by satellite microwave radiometry. Aschbacher, J., [1990,eng] 50-6691
- Microwave radiometry for monitoring the diverse cloudiness regimes on Earth: a review. Katsaros, K.B., [1992,eng] 50-227
- Microwave thawing of frozen soils and gravels. Lindroth, D.P., et al. [1995,eng] 50-359
- Millimetric radar backscatter from snowcover. Williams, L.D., et al. [1987,eng] 50-6200
- Passive microwave remote sensing of snow: volume scattering in antarctic firn. Tsang, L., et al. [1995,eng] 50-4181
- Passive microwave snow research in the Canadian High Arctic. Gan, T.Y., [1996,eng] 50-5540
- Reflection coefficient in microwave propagation over snow-covered terrain. Suzuki, M., [1956,eng] 50-3942
- Retrieval of cloud liquid water and precipitation from polarized microwave simulations. Bauer, P., et al. [1992,eng] 50-229
- Satellites for monitoring climate change. Kelkar, R.R., [1994,eng] 50-4826
- Size parameters of snow grains in scattering and emission models. Jin, Y.Q., [1995,eng] 50-4179
- Submillimeter wave attenuation in falling snow. Suzuki, M., et al. [1979,jpn] 50-3940

Migration

- Alpine vascular flora of the Tushar Mountains, Utah. Taye, A.C., [1995,eng] 50-1541
- Arctic vegetation types as response predictors to global change. Chapin, F.S., III, et al. [1996,eng] 50-6557
- Chlorophyll distribution in a body of fresh water covered with ice. Zavoruev, V.V., et al. [1996,eng] 50-5816
- Daily vertical migration of antarctic copepods beneath the ice. Tseitlin, V.B., et al. [1995,eng] 50-3607
- Migration of chemical elements and ions in the seasonal thaw layer and upper layer of perennially frozen rocks. Leibman, M.O., et al. [1996,rus] 50-6848
- See [also]: Soil water migration

Military engineering

- Engineers in Bosnia: an overview. Treleven, D.L., [1996,eng] 50-5144

Military equipment

- 1993 biennial report. University of Washington. College of Ocean & Fisheries Science. Applied Physics Laboratory, [1993,eng] 50-5203
- AMC-FAST quarterly report—January-March 1994. Department of the Army. Army Materiel Command. Field Assistance in Science and Technology Activity, [1994,eng] 50-5972
- Cold regions aspects of mobile test bed hardening in Montana. Blaisdell, G.L., et al. [1987,eng] 50-2725
- Cold weather tests of 4-wheeled armored military vehicle. Davis, J.B., et al. [1996,eng] 50-5665
- Cold weather tests of medium tactical vehicles. Storey, J.B., [1996,eng] 50-5655
- Comparison of infrared radiometers used to gather background signature data. Berger, R.H., et al. [1995,eng] 50-2474
- Design and analysis of a low speed drag plow for use in deep snow. Walsh, M.R., [1991,eng] 50-6198
- Effect of frozen ground strength on hardening performance of the Hard Mobile Launcher. Chamberlain, E.J., et al. [1989,eng] 50-3042
- Feasibility study of foxhole excavation by compressed gas blasting. Mellor, M., et al. [1971,eng] 50-5757
- High spatial and temporal resolution database for synthetic scene generation and validation. Bleiweiss, M.P., et al. [1995,eng] 50-3756
- Smart Weapons Operability Enhancement (SWOE) Joint Test and Evaluation (JT&E) Program. Final report. Welsh, J.P., [1994,eng] 50-2453
- Smart weapons operability enhancement synthetic scene generation process. Koenig, G.G., et al. [1995,eng] 50-3755
- Statistical validation of IR smart weapons scene generation. Welsh, J.P., et al. [1995,eng] 50-3754
- Synthetic scene generation process for smart weapons. Welsh, J.P., et al. [1995,eng] 50-3834
- Traction and hardening tests of mobile missile launcher over frozen ground. Chamberlain, E.J., et al. [1988,eng] 50-2524

Military facilities

- 1971 performance survey of DEW Line ice cap stations DYE-2 and DYE-3. Flax, D., et al. [1971,eng] 50-5756
- Adsorption-desorption of TNT and RDX in soils. Xue, S.K., et al. [1995,eng] 50-1686
- Analytical methods for explosives contamination on army installations. Jenkins, T.F., et al. [1995,eng] 50-1094
- Development of colorimetric field screening methods for munitions compounds in soil. Jenkins, T.F., et al. [1995,eng] 50-1095
- Dredging Eagle River Flats: remediation study in an active impact area. Walsh, M.R., [1996,eng] 50-5913
- End of season report: Operation Deep Freeze 95/96. U.S. Naval Support Force Antarctica, [1996,eng] 50-5807
- Evaluation of the geothermal heat pump installation at Naval Air Station, Patuxent River. Garg, S., et al. [1995,eng] 50-2460
- Innovative bioventing system construction/operation in cold regions. Strickland, K.K., et al. [1996,eng] 50-6136
- Military specification MIL-D-83411A(USAF). Deicer/anti-icer fluid (for runways and taxiways). U.S. Air Force, [1973,eng] 50-4607
- OTH-backscatter power plant foundation design for warm, ice-rich permafrost soils. Foster, M.L., et al. [1991,eng] 50-1735
- Private enterprise employment of Greenlanders at Thule Air Base. Sørensen, P.E., [1995,eng] 50-2970
- Soil bioremediation at CFB Trenton: evaluation of bioremediation processes. Ouellette, L., et al. [1996,eng] 50-5566
- Transport of TNT and RDX in soils. Selim, H.M., et al. [1995,eng] 50-1688
- U.S. Army research camps in northwest Greenland. Tobiasson, W., [1968,eng] 50-3882
- Underground fuel tanks for Alaska. Freas, G.C., [1991,eng] 50-4226
- Unsurfaced road maintenance management. Eaton, R.E., et al. [1995,eng] 50-952
- Military operation
- AMC-FAST quarterly report—January-March 1994. Department of the Army. Army Materiel Command. Field Assistance in Science and Technology Activity, [1994,eng] 50-5972
- Background classification for infrared seekers. Berger, R.H., [1991,eng] 50-765
- Canadian Air Force ice strip requirements. [1982,eng] 50-4594
- Comparison of infrared radiometers used to gather background signature data. Berger, R.H., et al. [1995,eng] 50-2474
- Comparison of sensors and conditions at Smoke Week X and Smoke Week XI. Kennedy, B.W., et al. [1990,eng] 50-737

Military research

Mines (ordnance)

- Current policy of the Russian Federation regarding development and management of the Northern Sea Route System. Arkinen, A.I., et al. [1995.eng] 50-4450
- Development of a field method for quantifying ammonium picrate and picric acid in soil and water. Thorne, P.G., et al. [1995.eng] 50-1152
- End of season report: Operation Deep Freeze 95/96. U.S. Naval Support Force Antarctica, [1996.eng] 50-5807
- Engineers in Bosnia: an overview. Treleven, D.L., [1996.eng] 50-5144
- Guidelines for managing vegetation on earth-covered magazines within the U.S. Army Materiel Command. Palazzo, A.J., et al. [1994.eng] 50-389
- High spatial and temporal resolution database for synthetic scene generation and validation. Bleiweiss, M.P., et al. [1995.eng] 50-3756
- Initial analyses of Eagle River Flats hydrology and sedimentology. Fort Richardson, Alaska. Lawson, D.E., et al. [1995.eng] 50-392
- Obscuration in smoke and snow. Hutt, D.L., [1990.eng] 50-733
- Precipitation parameters in natural obscuration. Hogan, A.W., [1990.eng] 50-734
- Silt fence testing for Eagle River Flats dredging. Henry, K.S., et al. [1995.eng] 50-880
- Smart Weapons Operability Enhancement (SWOE) Joint Test and Evaluation (JT&E) Program. Final report. Welsh, J.P., [1994.eng] 50-2453
- Smart weapons operability enhancement synthetic scene generation process. Koenig, G.G., et al. [1995.eng] 50-3755
- Snow scavenging effects on large-area smoke screens. Slota, J.R., et al. [1991.eng] 50-764
- Snow scavenging on the winter battlefield. Slota, J.R., et al. [1990.eng] 50-735
- Statistical validation of IR smart weapons scene generation. Welsh, J.P., et al. [1995.eng] 50-3754
- Submesoscale variation in snow-induced obscuration. Hogan, A.W., [1991.eng] 50-762
- Synthetic scene generation process for smart weapons. Welsh, J.P., et al. [1995.eng] 50-3834
- Techniques and procedures for route clearance. Schneck, W.C., Jr., et al. [1996.eng] 50-5143
- Tests of electro-optic sensors in smoke and obscuration. Quebec, Feb.-Mar. 1989. Kennedy, B.W., et al. [1990.eng] 50-736
- United States Navy operational oceanographic nowcast/forecast system. Durham, D.L., [1994.eng] 50-5176
- Winter tests of artillery firing into Eagle River Flats. Fort Richardson, Alaska. Collins, C.M., et al. [1995.eng] 50-391
- Military research**
- AMC-FAST quarterly report—January-March 1994. Department of the Army. Army Materiel Command. Field Assistance in Science and Technology Activity. [1994.eng] 50-5972
- Comparison of infrared radiometers used to gather background signature data. Berger, R.H., et al. [1995.eng] 50-2474
- Design and analysis of a low speed drag plow for use in deep snow. Walsh, M.R., [1991.eng] 50-6198
- Effect of frozen ground strength on hawdow performance of the Hard Mobile Launcher. Chamberlain, E.J., et al. [1989.eng] 50-3042
- High spatial and temporal resolution database for synthetic scene generation and validation. Bleiweiss, M.P., et al. [1995.eng] 50-3756
- Millimetric radar backscatter from snowcover. Williams, L.D., et al. [1987.eng] 50-6200
- Smart Weapons Operability Enhancement (SWOE) Joint Test and Evaluation (JT&E) Program. Final report. Welsh, J.P., [1994.eng] 50-2453
- Smart weapons operability enhancement synthetic scene generation process. Koenig, G.G., et al. [1995.eng] 50-3755
- Statistical validation of IR smart weapons scene generation. Welsh, J.P., et al. [1995.eng] 50-3754
- Synthetic scene generation process for smart weapons. Welsh, J.P., et al. [1995.eng] 50-3834
- Military supplies**
- See [also]: Logistics
- Military transportation**
- Canadian Air Force ice strip requirements. [1982.eng] 50-4594
- Mine shafts**
- Basis for the effectiveness of using semiconductor heat pumps for mining in the North Stepov. V.I., [1992.rus] 50-815
- Calculating the dimensions of a flat pillar. Kovalev, I.I., [1992.rus] 50-807
- Fracturing of glacial drift and bedrock over longwall mine panels. Johnston, M.A., et al. [1993.eng] 50-5517
- Improved mining methods in permafrost regions. Tsygankov, A.V., [1992.rus] 50-816
- Operating chambered shafts in frozen rock. Tiunin, V.P., et al. [1992.rus] 50-808
- Optimal parameters of the technology for mining gypsum in the Olekminsk mine. Kokovin, V.A., et al. [1992.rus] 50-809
- Physical-technical problems in the development of deposits in the North. Zarovniaev, B.N., ed. [1992.rus] 50-793
- Support of vertical-shaft collar under complex geocryological conditions. Izakson, V.I.U., et al. [1995.eng] 50-417
- Thermal stresses on mine tunnels in frozen rock. Izakson, V.I.U., [1996.eng] 50-6495
- See [also]: Shaft sinking
- Mineralogy**
- Contributions to antarctic research IV. Elliot, D.H., ed. et al. [1995.eng] 50-1190
- Determination of the mineral composition of similar types of paleosols intercalated in loess sequences. Gerei, L., et al. [1995.eng] 50-1044
- Determination of total carbonate content in some representative loess-paleosol profiles. Gerei, L., et al. [1995.eng] 50-1043
- Diamond exploration in glaciated terrain: a Russian perspective. Golubev, I.U.K., [1995.eng] 50-1092
- Ferromanganese nodules of the Kara Sea. Bogdanov, I.U.A., et al. [1995.eng] 50-3547
- Geochemical correlation between coarse and fine fractions of till in southern Finland. Tarvainen, T., [1995.eng] 50-2705
- Geochemistry and mineralogy of Kap Edvard Holm waters. Brandriss, M.E., et al. [1995.eng] 50-2056
- Glacial dispersal of mineralized bedrock mercury. Plouffe, A., [1995.eng] 50-882
- Mesomorphic soil formation in the cryogenic taiga semihumid sector of central Siberia. Ershov, I.U.I., [1995.eng] 50-2146
- Method for the study of Quaternary environmental evolution of the loess plateau in China. Zhang, Z.H., et al. [1995.eng] 50-1045
- Mineral composition of the fine-dispersed fractions of loess and soil processes developed in them. Chizhikova, N.P., et al. [1995.eng] 50-1042
- Mineralogical and chemical analysis of Taklimakan Desert soil samples. Ishii, T., et al. [1991.jp] 50-1428
- Parent materials of Wrangel Island. Oganessian, A.Sh., et al. [1995.eng] 50-1052
- Problems of metallogeny of the Arctic. Dodin, D.A., et al. [1994.eng] 50-1207
- Processes in soils and paleosols—a new method for the study of weathering. Nemecz, E., et al. [1995.eng] 50-1037
- Remote sensing of East Greenland mafic intrusion lithology. Birnie, R.W., et al. [1989.eng] 50-3935
- Salt precipitation and accumulation in the Taklimakan Desert. Okada, A., et al. [1991.jp] 50-1429
- Secondary precipitates in Pleistocene and present cryogenic environments. Vogt, T., et al. [1996.eng] 50-4045
- Study on Quaternary moraine debris of Mount Xixia Bangma region. Zhang, S.Y., [1982.chi] 50-6603
- Study on theoretical problems of peat resources of the Qinghai-Xizang Plateau. Sun, G.Y., [1992.chi] 50-1497
- Surface sediment mineralogy of the Laptev Sea. Wahsner, M., [1995.eng] 50-2099
- Transport of sand particles and dune shifting by wind in the Taklimakan Desert. Okumura, T., et al. [1991.jp] 50-1432
- X ray fluorescence spectrum analysis of the total mineral content of soils. Chen, T.M., et al. [1991.chi] 50-5135
- Minerals**
- 1995 annual report on Alaska's mineral resources. Schneider, J.L., ed. [1995.eng] 50-5664
- Acquisition and processing of remote sensing data on ore deposits. Guo, H.D., et al. [1993.chi] 50-2380
- Analysis on metamorphism of Ertix structural belt in northern Xinjiang. Sui, J.X., [1993.chi] 50-2370
- Bacterial population in mineral soils from Antarctica and its relations to organic nutrients. Böler, M., [1989.pol] 50-2925
- Carboniferous siliceous rock and its relation to metallic sulfide deposits in northern Xinjiang. Yang, W.H., et al. [1993.chi] 50-2358
- Chemistry of salt minerals and their depositional environment in the Qaidam Basin. Dong, J.H., [1986.chi] 50-1988
- Compositional variation of laurite in an alpine ultramafic complex in the Polar Urals. Anikina, E.V., et al. [1995.rus] 50-4108
- Drill cores from Qarhan Salt Lake. Yang, S.X., [1992.chi] 50-1488
- Effect of the mineral composition of soils on the coastal vegetation of the Chukotskiy Peninsula. Sergienko, L.A., [1991.rus] 50-1308
- Electrical and magnetic methods for gold exploration. Shi, K.F., et al. [1993.chi] 50-2387
- Ertix volcanic rocks and tectonic evolution. Yu, X.Y., et al. [1993.chi] 50-2364
- Exploitation of mineral resources in Antarctica. Machowski, J., [1989.pol] 50-2932
- Features of potash sedimentation in the upper salt layer (S₄) in the Qarhan Salt Lake. Li, B.X., et al. [1992.chi] 50-1487
- Ferromanganese nodules of the Kara Sea. Bogdanov, I.U.A., et al. [1995.eng] 50-3547
- Genetic types of granitoids and their mineralization in northern Xinjiang. Wang, Z.G., et al. [1993.chi] 50-2359
- Geochemical studies of layered ground ice and frozen rocks (from work on Ney-To Lake). Dubikov, G.I., [1983.rus] 50-312
- Geochemistry of the Ulungur-Zhaisangpo tectonic melange belt. Liu, W., et al. [1993.chi] 50-2366
- Geological evolution and diagenetic mineralization in Xinjiang. Tu, G.Z., [1993.chi] 50-2351
- Geology and mineralogy of some important nonmetal deposits. Cao, J.C., et al. [1993.chi] 50-2379
- Geology of the Red Mountain gold deposit in British Columbia. Greig, C.J., et al. [1994.eng] 50-84
- Geophysical model of ore-bearing rock in Xinjiang. Zhang, S.Z., et al. [1993.chi] 50-2383
- Geophysical prospecting methods for Cu-Ni minerals. Zhang, S.Z., et al. [1993.chi] 50-2381
- Giving full play to the mineral resources, to promote the economic development in Xizang. Cao, Y.G., et al. [1992.chi] 50-1485
- Gold mineralization in western Junggar. Shen, Y.C., et al. [1993.chi] 50-2371
- High-alkaline intrusive rock belts in northern Xinjiang. Wang, Z.G., et al. [1993.chi] 50-2362
- Isotope geochemistry and crustal evolution of northern Xinjiang. Hu, A.Q., et al. [1993.chi] 50-2353
- Kennecott's Diavik project: diamond exploration enters the final stage. [1996.eng] 50-2447
- Mafic intrusive body bearing Cu-Ni mineralization in Xinjiang. Yuan, Q.L., et al. [1993.chi] 50-2376
- Magmatic activities and its relation to tectonic setting and gold mineralization in western Junggar. Jin, C.W., et al. [1993.chi] 50-2360
- Magnetic analysis of glaciogenic sediment weathering. Walden, J., et al. [1995.eng] 50-6562
- Metallogenic geology and geochemistry related to Ertix volcanism. Liu, T.G., et al. [1993.chi] 50-2375
- Metallogenic mechanism of Cu in Altay. Li, Z.C., [1993.chi] 50-2374
- Metallogenic mechanism of tungsten deposit in Alatau. Wang, K.R., et al. [1993.chi] 50-2373
- Muon μ -particle: a new technique for mineral exploration. Zhou, D.Z., [1993.chi] 50-2382
- New advances in solid earth sciences in northern Xinjiang. Tu, G.Z., ed. [1993.chi] 50-2350
- New improvement of mathematical geology applying in gold mineralization. Shen, B.M., et al. [1993.chi] 50-2386
- New regional mapping project in Vernon map area, British Columbia. Thompson, R.I., et al. [1994.eng] 50-85
- Ophiolitic belts and their genetic environment in western Junggar. Zhang, C., et al. [1993.chi] 50-2355
- Origin of sylivites and salts in the Qaidam Basin. Yang, Q., [1986.chi] 50-1987
- Overlapping mineralization of Karatongki Cu-Ni deposit. Zhan, X.Z., [1993.chi] 50-2377
- Paleozoic stratigraphy of ophiolites and their tectonic setting in Xinjiang. Wu, H.R., et al. [1993.chi] 50-2361
- Pb isotope province and geochemical prospecting in northern Xinjiang. Zhu, B.Q., et al. [1993.chi] 50-2354
- Pb-Zn-Au deposits in Carboniferous strata of northern Xinjiang. Yang, W.H., et al. [1993.chi] 50-2357
- Plate and terrain tectonics of northern Xinjiang. Cao, R.L., et al. [1993.chi] 50-2352
- Preliminary stratigraphy from Lansing map area. Yukon Territory. Roots, C., et al. [1994.eng] 50-80
- Principal mineral resources and their distribution on the Qinghai-Xizang Plateau. Xu, Z.Y., et al. [1991.chi] 50-2295
- Purification kit for potabilizing meltwater. Gopal, R., et al. [1991.eng] 50-3402
- Quartz grain in the glacier and periglacial environment of Oscar II Land. Kowalkowski, A., et al. [1989.pol] 50-2900
- Quaternary geology of the Buchans area. Newfoundland: implications for mineral exploration. Klassen, R.A., et al. [1996.eng] 50-6634
- Rare earths in the granitoids of the Altay region. Zhao, Z.H., et al. [1993.chi] 50-2368
- Regional geochemistry of Alatau region. Li, S.G., et al. [1993.chi] 50-2369
- Regional metallogenic model of Alatau region. Man, F.S., et al. [1993.chi] 50-2372
- Remote sensing for mineral exploration in northern Xinjiang. Guo, H.D., et al. [1993.chi] 50-2384
- Research on new Alaskan mining technology. Chamberlain, P.G., [1991.eng] 50-1715
- Saline-lake resources on the Qinghai-Xizang Plateau and their developed prospect. Zheng, M.P., [1992.chi] 50-1486
- Salt lakes in Xizang. Zheng, X.Y., et al. [1988.chi] 50-1848
- Salt lakes of Inner Mongolia. Zheng, X.Y., et al. [1992.chi] 50-1849
- Salt lakes of Qaidam Basin. Zhang, P.X., et al. [1987.chi] 50-1845
- Sequence of glacial ice flows in Abitibi-Timiskaming. Veilleux, J.J., et al. [1996.eng] 50-2499
- Sino-Kazakhstan-Mongolia border area tectonics from satellite data. Yang, D.C., et al. [1993.chi] 50-2385
- Some geological problems regarding salt lakes on the Qinghai-Xizang Plateau. Zhang, P.X., [1986.chi] 50-1985
- Stable isotopic character of mineralization of some deposits in northern Xinjiang. Zhang, G.X., et al. [1993.chi] 50-2378
- Stratigraphic and structural setting of mineral deposits in British Columbia. Davies, A.G.S., et al. [1994.eng] 50-83
- Sulfide occurrences in northwestern British Columbia. Gunning, M.H., et al. [1994.eng] 50-82
- Technology adaptation to arctic mineral resource development. Zamoshch, M.N., [1991.eng] 50-1754
- Tectonic framework of the Teslin region, southern Yukon Territory. Gorday, S.P., et al. [1994.eng] 50-81
- Thermal Orvin spring below Mount Gällberget (Hornsund, Spitsbergen). Pociask-Karczka, J., [1989.eng] 50-2922
- Trace element geochemistry of volcanic rocks along the Ertix River. Mei, H.J., et al. [1993.chi] 50-2365
- Trace elements in the Weddell Sea water and sediments in the continental shelf area. Niemistö, L., et al. [1995.eng] 50-1952
- See [also]: Clay minerals
- Mines (excavations)**
- See [also]: Mining
- Mines (ordnance)**
- Engineers in Bosnia: an overview. Treleven, D.L., [1996.eng] 50-5144

Mining

- Techniques and procedures for route clearance. Schneek, W.C., Jr., et al. [1996.eng] 50-5143
- Mining**
- Air quality at a zinc/lead mine in arctic Alaska. MacCay, C., et al. [1996.eng] 50-6174
- Applicability of Soviet arctic mining technology to northern America. Skudrzyk, F.J., [1991.eng] 50-1743
- Basis for the effectiveness of using semiconductor heat pumps for mining in the North. Sleptsov, V.I., [1992.rus] 50-815
- Behavior of crystals in kimberlite and ice under the action of shock waves. Beloborodov, V.N., et al. [1995.eng] 50-1206
- Blasting frozen iron ore at Knob Lake. Lang, L.C., [1966.eng] 50-5805
- Calculating intermediate reserves of mountain massifs during open pit mining. Zarovniaev, B.N., et al. [1992.rus] 50-798
- Characteristics of forecasting energy consumption in the mining industry. Kuznetsov, N.M., [1992.rus] 50-714
- Characteristics of working in permafrost in Transbaikalia. Kozlov, V.A., et al. [1993.rus] 50-111
- Coal mine spoil instability in discontinuous permafrost. Hardy, A.J., et al. [1996.eng] 50-6166
- Composite report on drilling and blasting of permafrost at Ferriman Mine. Lang, L.C., [1964.eng] 50-5762
- Creation of high-productive seeding meadows on disturbed arctic lands. Tikhmenev, E.A., [1991.eng] 50-1744
- Diamond exploration in glaciated terrain: a Russian perspective. Golubev, I.U.K., [1995.eng] 50-1092
- Ecological protection in mining of minerals. Tsygankov, A.V., et al. [1992.rus] 50-818
- Ecological role of a subaqueous cryolithozone. Zhigarev, L.A., [1991.rus] 50-1302
- Freeze-thaw dewatering and structural enhancement of fine coal tails. Stahl, R.P., et al. [1995.eng] 50-357
- Geology and mining in Svalbard. Cipitelli, G., [1994.ita] 50-2820
- Giving full play to the mineral resources, to promote the economic development in Xizang. Cao, Y.G., et al. [1992.chi] 50-1485
- Glacial deposit geochemistry at a Manitoba mining site. Nielsen, E., et al. [1991.eng] 50-3911
- Gravitational platform and the means for its assembly. Ionin, V.S., et al. [1992.rus] 50-1904
- Hearing on arctic coastal plain leasing to petroleum interests. U.S. Congress. House. Committee on Resources, [1995.eng] 50-3455
- Impact fracturing of frozen ground and rocks. Fedulov, A.I., et al. [1996.eng] 50-4740
- Improved mining methods in permafrost regions. Tsygankov, A.V., [1992.rus] 50-816
- Kennecott's Diavik project: diamond exploration enters the final stage. [1996.eng] 50-2447
- Lichen accumulation of airborne metals adjacent to a lead-zinc mine. Pilegaard, K., [1994.eng] 50-5604
- Means of developing a frozen ground enclosure around a shaft to be sunk. Boguslavskii, E.I., et al. [1992.rus] 50-1901
- Method for underground gasification of coal. Shute, V.I., [1992.rus] 50-1943
- Mining engineering reclamation of disturbed land under conditions in the North. Aleksandrov, I.N., et al. [1992.rus] 50-817
- Natural and technogenic water and sediment supply to the Laptev Sea. Alabian, A.M., et al. [1995.eng] 50-2094
- Natural resources of Inner Mongolia. Eer, D., ed. [1987.chi] 50-2290
- New geography of the polar regions: synthesis and perspectives. Orombelli, G., ed. et al. Atti del Convegno della Società Geografica Italiana, Roma, 21-22 Novembre 1991 (Proceedings of the Italian Geographical Society Conference, Rome, 21-22 November 1991), [1994.ita] 50-2817
- New permafrost blasting method developed at Asbestos Hill. Lang, L.C., [1976.eng] 50-5749
- Optimal parameters of the technology for mining gypsum in the Olekminsk mine. Kokovin, V.A., et al. [1992.rus] 50-809
- Permafrost in the coal mining area of the Greater Khingan Range. Guo, D.X., et al. [1989.chi] 50-1341
- Physical-technical problems in the development of deposits in the North. Zarovniaev, B.N., ed. [1992.rus] 50-793
- Problems of borehole-blasting excavation in open pit mining. Zarovniaev, B.N., [1992.rus] 50-801
- Problems of metallogeny of the Arctic. Dodin, D.A., et al. [1994.eng] 50-1207
- Requirements for heap leaching under permafrost conditions. Putsyn, A.B., [1995.eng] 50-418
- Research on new Alaskan mining technology. Chamberlain, P.G., [1991.eng] 50-1715
- Rock massif response to subzero temperature fluctuations. Chislov, A.I., [1991.eng] 50-1745
- Rock massif response to subzero temperature fluctuations. Chislov, A.I., [1991.eng] 50-1745
- Shaft and Tunnel Access (SATAC) concepts for developing petroleum reserves. Hasikin, C.A., et al. [1991.eng] 50-1742
- Slope engineering of benches using low density explosives in interstitial contours. Shebarshov, A.A., et al. [1992.rus] 50-799
- Slope stability problems in open pit coal mines in permafrost regions. Vakili, J., [1991.eng] 50-1749
- Sounding to determine the thermophysical properties of frozen ground and bedrock. Gavril'ev, R.I., [1993.rus] 50-124
- Study of the technology of supplying sand by powerful bulldozers. Chemezov, N.N., [1992.rus] 50-805

- Studying arctic and subarctic ecosystems of impact regions using remote monitoring methods. Tereshenkov, O.M., et al. [1994.rus] 50-278
- Subarctic lake pollution by gold mine arsenic effluent. Bright, D.A., et al. [1996.eng] 50-4207
- Supporting permafrost bases for tower pile-drivers of vertical mine shafts while in operation. Izakson, V.I.U., et al. [1989.rus] 50-2251
- Technological effects on tundra ecosystems and the recultivation of disturbed territory. Sumina, O.I., [1992.rus] 50-3406
- Ways of creating equipment and technology for the mining of mineral deposits in the North. Sleptsov, A.E., [1992.rus] 50-794

See [also]: Mine shafts; Placer mining; Quarries; Shaft sinking

Mineral circles

- New type of glacial deposit. Appel, P.W.U., [1996.eng] 50-3353

Models

- 1989 AASE temperature and wind measurements. Chan, K.R., et al. [1990.eng] 50-5980
- 2xCO₂ experiment with prescribed changes in sea surface temperature. Mahouf, J.-F., et al. [1992.eng] 50-226
- Aircraft-generated aerosols and visible contrails. Kärcher, B., [1996.eng] 50-6544
- Algorithm for radiometric image mapping of global snow cover. Hall, D.K., et al. [1995.eng] 50-1809
- Algorithm to enhance sea ice concentration estimates from radiometric brightness temperatures. St. Germain, K.M., et al. [1992.eng] 50-3564
- Alteration of volatile inventories by polar clathrate formation on Mars. Musselwhite, D., et al. [1995.eng] 50-2133
- Anthropogenic climate change and reduction of water resources. Golubov, V.V., et al. [1996.eng] 50-5055
- Application of lake temperature model for predicting the effect of climatic change. Virta, J., et al. [1994.eng] 50-3200
- Application of pipe temperature simulator for Norman Wells oil pipeline. Nixon, J.F., et al. [1996.eng] 50-4306
- Approaches to reconstructing the climate of the steppe-tundra biome. Barry, R.G., [1982.eng] 50-3378
- Approaches to the establishment of future climate scenarios for the alpine region. Wanner, H., et al. [1995.eng] 50-1011
- Arctic and climate: the Arctic Climate System Study program. Kondrat'ev, K.I.A., et al. [1993.rus] 50-4113
- Asian summer monsoon sensitivity to Eurasian snow cover. Douville, H., et al. [1996.eng] 50-5863
- Assessing sensitivities of forests to climate change. Fischlin, A., [1995.eng] 50-1018
- Assessment of the impact of the greenhouse gas emission and sink scenarios in Finland. Pipatti, R., et al. [1994.eng] 50-3234
- Assessment of the use of deicing salts. Breitenstein, J., [1996.eng] 50-3617
- Atmospheric absorption of solar radiation due to ice clouds. Gautier, C., [1995.eng] 50-957
- Bromine-chlorine coupling in the antarctic ozone hole. Danilin, M.Y., et al. [1996.eng] 50-3065
- Calculations of ozone destruction during the 1988/89 arctic winter. McKenna, D.S., et al. [1990.eng] 50-6025
- Chlorine monoxide in the antarctic spring vortex, pt.2. Shindell, D.T., et al. [1996.eng] 50-3018
- Classification of wetland and muskox terrain. Pietroniro, A., et al. [1996.eng] 50-5541
- Clathrate-like structures in supercooled water. Walrafen, G.E., et al. [1995.eng] 50-155
- Climate change and forest management alternatives. Valsta, L., et al. [1994.eng] 50-3233
- Climate change and water resources in Vuoksi watershed. Vehviläinen, B., et al. [1994.eng] 50-3195
- Climate change impacts on snow cover: modelling case studies in Switzerland and the French Western Alps. Baumgartner, M.F., et al. [1995.eng] 50-1013
- Climate models and scenarios. Fortelius, C., et al. [1994.eng] 50-3185
- Climatic and geographic patterns in snow density dynamics, northern Eurasia. Onuchin, A.A., et al. [1996.eng] 50-4342
- Comments on the use of chemically based mixing models in glacier hydrology. Sharp, M., et al. [1995.eng] 50-447
- Competing roles of heat and freshwater flux in forcing thermohaline oscillations. Pierce, D.W., et al. [1995.eng] 50-598
- Cooperative polarisation in ice I_h and the unusual strength of the hydrogen bond. Heggie, M.J., et al. [1996.eng] 50-3958
- Dendrochronology of climatic change in mountain environment. Tessier, L., et al. [1995.eng] 50-1019
- Denitrification mechanisms in the polar stratospheres. Toon, O.B., et al. [1990.eng] 50-6001
- Developing methods for forecasting seismic effects under cryolithozone conditions. Dzhrilik, V.I., et al. [1996.rus] 50-6834
- Development of a climate generator for Finland. Il. Posch, M., [1994.eng] 50-3227
- Distributed snowmelt modeling using a clustering algorithm. Harrington, R.F., et al. [1995.eng] 50-2409
- Downwelling radiation flux at continental surfaces. Garratt, J.R., et al. [1996.eng] 50-5018
- ECMWF analyses and predictions of the surface climate of Greenland and Antarctica. Genthon, C., et al. [1995.eng] 50-1327
- Effect of climate change on erosion and nutrient transport from arable land. Kallio, K., et al. [1994.eng] 50-3196

- Effect of sea ice on the salinity of antarctic bottom waters. Toggweiler, J.R., et al. [1995.eng] 50-336
- Effect of snow cover anomaly on global climate. Krenke, A.N., et al. [1995.rus] 50-3969
- Effective permittivity microwave model for wet and frozen soils. Boiariskii, D.A., et al. [1995.eng] 50-4215
- Effects of climate change on alpine plant diversity and distribution. Guisan, A., et al. [1995.eng] 50-1016
- Effects of climate change on water supplies in mountainous snowmelt regions. Rango, A., [1995.eng] 50-6617
- Eocene continental climates and latitudinal temperature gradients. Greenwood, D.R., et al. [1995.eng] 50-1808
- Equilibrium constant for the reaction of ClO + O₂ ↔ ClO₂. Demore, W.B., [1990.eng] 50-4732
- Eruption-triggered debris flow on snow-clad volcanoes. Pierson, T.C., [1995.eng] 50-1655
- Estimates of Greenland atmospheric impurity variations during deglaciation. Alley, R.B., et al. [1995.eng] 50-1872
- Estimating the characteristics of high-latitude radio communication lines. Lukashkin, V.M., [1991.rus] 50-1641
- Estimation of climate change effect on the runoff: catchment-scale application of SOIL-model. Roos, J., et al. [1994.eng] 50-3194
- Evidence for Cenozoic crustal extension in the Bering Sea region. Cooper, A.K., et al. [1992.eng] 50-2565
- Evolving description of a fractured carbonate reservoir: the Lisburne Field, Prudhoe Bay, Alaska. Missman, R.A., et al. [1991.eng] 50-1755
- Fluvial sediment transfer in the Central Alps. Höfner, T., [1993.eng] 50-3335
- Formation of De Geer moraines deposited subglacially, central Québec. Beaudry, L.M., et al. [1995.eng] 50-5035
- Formation of nitric acid hydrates—a chemical equilibrium approach. Smith, R.H., [1990.eng] 50-4728
- Framework for modeling the effects of climate change on material fluxes in forested catchments. Holmberg, M., et al. [1994.eng] 50-3197
- Future chlorine-bromine loading and ozone depletion. Prather, M.J., et al. [1991.eng] 50-2787
- General circulation (GCM) modelling of palaeoclimates: a critique. Street-Perrott, F.A., [1991.eng] 50-3303
- Geographic information system for SILMU and the modelling of soil carbon flows. Alm, J., et al. [1994.eng] 50-3230
- Glaciation onset related to Canadian tundra. Gallimore, R.G., et al. [1996.eng] 50-5212
- Global climate change adaptation: examples from Russian boreal forests. Dixon, R.K., et al. [1996.eng] 50-5056
- Heterogeneous chemistry of polar stratospheric clouds. Mahler, J.H., et al. [1990.eng] 50-4726
- Heterogeneous processes: laboratory, field, and modeling studies. Poole, L.R., et al. [1991.eng] 50-2784
- High-latitude climate change with an atmospheric coupled sea ice model. Washington, W.M., et al. [1996.eng] 50-6055
- High-latitude forest ecophysiology during global warming. Kohlmaier, G.H., et al. [1995.eng] 50-771
- Hudson Bay-Hudson Strait jökulhlaups and Heinrich events: a hypothesis. Johnson, R.G., et al. [1995.eng] 50-354
- Ice ages and the Milankovitch theory: a study of interactive climate feedback mechanisms. Cess, R.D., et al. [1979.eng] 50-2976
- Ice microcracking due to grain boundary sliding. Elvin, A.A., et al. [1996.eng] 50-4185
- Ice-age tropics revisited. Anderson, D.M., et al. [1994.eng] 50-3771
- Impact of climate change on carbon cycle in freshwater ecosystems. Kankaala, P., et al. [1994.eng] 50-3201
- Impact of global warming on tundra and forest ecosystems. Plochl, M., et al. [1995.eng] 50-4865
- Impact of heterogeneous reactions on stratospheric chemistry of the Arctic. Douglass, A.R., et al. [1989.eng] 50-4708
- Impact of stratospheric flight on ozone. Pitari, G., et al. [1995.eng] 50-557
- Impacts of climate change on mountain ecosystems: future research and monitoring needs. Guisan, A., et al. [1995.eng] 50-1020
- Increasing greenhouse gases indicate climate changes. Tokioka, T., [1995.eng] 50-141
- Individual-based model of alpine plant distributions. Humphries, H.C., et al. [1996.eng] 50-3151
- Influence of glaciation on the basin temperature regime. Johansen, H., et al. [1996.eng] 50-5328
- Influence of the properties of porphyrin media on the durability of frozen calcareous rocks. Bellanger, M., et al. [1996.eng] 50-4862
- Initial results from small-scale frost heave experiments in a centrifuge. Ketcham, S.A., et al. [1995.eng] 50-728
- Interaction between subglacial sediment and meltwater. Collins, D.N., [1996.eng] 50-6265
- Large Arctic temperature change in the Holocene. Cuffey, K.M., et al. [1995.eng] 50-629
- Mantle rebound from data inversion of glacier isostatic dynamics. Pelletier, W.R., et al. [1996.eng] 50-3648
- Mesoscale and microscale structure of a severe ice pellet storm. Hanesiak, J.M., et al. [1995.eng] 50-1526
- Microclimatic models, estimation of solar radiation and evaporation over land surfaces. Heikinheimo, M., et al. [1994.eng] 50-3186
- Microwave retrieval algorithm for remote sensing of precipitation. Weng, F., et al. [1992.eng] 50-3666
- Mid stratospheric ozone minima in polar regions. Austin, J., et al. [1995.eng] 50-1181

Modification

- Model calculations of ozone depletion in the arctic polar vortex for 1991/92 to 1994/95. Chipperfield, M.P., et al. [1996.eng] 50-3551
- Model of wintertime stratospheric circulation. Eluszkiewicz, J., et al. [1995.eng] 50-1330
- Modeling climatic sensitivity of European marginal seas. Backhaus, J.O., [1996.eng] 50-4022
- Modeling the effects of climate change on lakes. Frisk, T., et al. [1994.eng] 50-3198
- Modeling the effects of climate change, air pollutants and land use on freshwater ecosystems: summary. Kauppi, L., et al. [1994.eng] 50-3192
- Modeling the effects of climatic change on phosphorus transport from a drainage basin. Bileletdin, A., et al. [1994.eng] 50-3199
- Modelling the controls on boreal tree species range limits. Sykes, M.T., et al. [1995.eng] 50-770
- Modelling the redistribution of runoff caused by global warming. Martinec, J., et al. [1994.eng] 50-5202
- Modelling the release of radioactive waste in the Kara Sea. Timms, S.J., et al. [1995.eng] 50-5059
- Models in engineering geocryology and their use in the organization of scientific studies. Levkovich, V.R., et al. [1989.rus] 50-2304
- Molecules on ice. Clary, D.C., [1996.eng] 50-4858
- Multi-temporal microwave satellite observations of plains snowpacks. Wankiewicz, A., et al. [1992.eng] 50-3563
- Myth of the classic hydrosere model of bog succession. Klinger, L.F., [1996.eng] 50-4331
- New approach to the dynamics of hydrogen bond network in liquid water. Matsumoto, M., et al. [1996.eng] 50-3616
- Nutrient availability in Alaskan upland forest sites. Yarie, J., et al. [1994.eng] 50-4798
- Ocean load tides at the South Pole. Agnew, D.C., [1995.eng] 50-4199
- On the scattering behaviour of bullet-rose and bullet-shaped ice crystals. Strauss, B., [1996.eng] 50-6228
- Paleoclimate data constraints on climate sensitivity: the paleocalibration method. Covey, C., et al. [1996.eng] 50-4150
- Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st, Burg Wartenstein, Austria, June 8-17, 1979, [1982.eng] 50-3369
- Parameterization of cirrus optical depth and cloud fraction. Soden, B., [1995.eng] 50-960
- Passive microwave snow research in the Canadian High Arctic. Gan, T.Y., [1996.eng] 50-5540
- Planetary waves in total ozone and their relation to antarctic ozone depletion. Bodeker, G.E., et al. [1995.eng] 50-4541
- Plausible hydrological scenario for the Bölling-Allerød atmospheric methane increase. Kalin, R.M., et al. [1996.eng] 50-4376
- Pliocene climates: the nature of the problem. Crowley, T.J., [1996.eng] 50-6624
- Polar stratospheric cloud event of January 24: part 2, photochemistry. Jones, R.L., et al. [1990.eng] 50-6022
- Polar stratospheric cloud influence on arctic atmospheric chemistry. Jones, R.L., et al. [1990.eng] 50-6023
- Possible responses of mountain vegetation to a global climatic change. Ozenda, P., et al. [1995.eng] 50-1017
- Potential role of peatland dynamics in ice-age initiation. Klinger, L.F., et al. [1996.eng] 50-4587
- Preconditioning the Greenland Sea for deep convection: ice formation and ice drift. Visbeck, M., et al. [1995.eng] 50-567
- Precursor signals associated with the interannual variability of the Asian summer monsoon. Yang, S., et al. [1996.eng] 50-5530
- Predicting the Vostok CO₂ curve. Saltzman, B., et al. [1995.eng] 50-821
- Preliminary considerations for runoff modelling in GCMs. Versegny, D., [1994.eng] 50-5701
- Probability of sea level rise. Titus, J.G., et al. [1995.eng] 50-5783
- Problems in geodynamic studies of Antarctica. Gutcher, A., [1989.pol] 50-2874
- Problems in improving the reliability of geotechnology and their systematic analysis. Linkov, A.S., [1989.rus] 50-2305
- Processes in the polar cap and magnetosphere in the presence of northern permafrost. Troshichev, O.A., [1991.rus] 50-1634
- Project III.6.1: Survey of logistics models. Shchelkanov, A.G., et al. [1996.eng] 50-4445
- Quantification of Barents Sea Pleistocene bottom erosion. Rasmussen, E., et al. [1996.eng] 50-5311
- Radiative fluxes and their impact on the energy balance of the Greenland ice sheet. Konzelmann, T., et al. [1995.eng] 50-1871
- Radiative forcing of climate. Ramaswamy, V., et al. [1991.eng] 50-2786
- Radioecological hazard of ship nuclear reactors sunken in the Arctic. Sivintsev, I.U.V., et al. [1996.eng] 50-5676
- Radioecological studies of radioactive contaminants in Ussury Bay, Sea of Japan. Solfer, V.N., [1995.eng] 50-5061
- Rate of carbon accumulation in boreal mires. Tolonen, K., et al. [1994.eng] 50-3223
- Recent morphogenesis and problems in the geocology of the Russian Arctic. Sen'kin, O.V., et al. [1995.rus] 50-5138
- Reconstructed model of trace gases vertical distribution. Karol', I.L., et al. [1995.eng] 50-625
- Reconstructing the climate of the Little Ice Age and its modeling. Kislov, A.V., et al. [1995.rus] 50-3773
- Reclaiming the ecosystems in the Russian Arctic. Zarubin, S.I., et al. [1994.rus] 50-289

- Regularities in the interaction of cryolithozone and gas or hydrate beds. Melnikov, V.P., et al. [1995.rus] 50-4116
- Relationship between snow cover boundary and air temperature. Kislov, A.V., [1994.eng] 50-6093
- Remote sensing in hydrology and water management. Haefner, H., et al. [1992.eng] 50-621
- Research on Antarctic Shallow Coastal and Littoral Systems (RASCALS). Klöser, H., et al. [1995.eng] 50-2570
- Response of boreal forest ecosystems to climatic change and its silvicultural implications: modelling. Kellomäki, S., et al. [1994.eng] 50-3209
- Response of soil carbon to climate change. McGuire, A.D., et al. [1995.eng] 50-4866
- Retrieval of cloud liquid water and precipitation from polarized microwave simulations. Bauer, P., et al. [1992.eng] 50-229
- Retrieval of thin ice thickness from multifrequency polarimetric SAR data. Kwok, R., et al. [1995.eng] 50-349
- Revisiting the degree-day method for snowmelt computations. Rango, A., et al. [1995.eng] 50-1653
- Role of spaceborne millimeter-wave radar in the global monitoring of ice cloud. Brown, P.R.A., et al. [1995.eng] 50-1247
- Role of the Bering Strait in controlling North Atlantic ocean circulation and climate. Shaffer, G., et al. [1994.eng] 50-3769
- Scaling of input data for macroscale hydrologic modeling. Kite, G.W., [1995.eng] 50-2544
- Scenarios of changes in the cryolithozone in Russia under global climatic warming. Velichko, A.A., et al. [1996.rus] 50-6839
- Seasonal nitrogen cycles on Pluto. Hansen, C.J., et al. [1996.eng] 50-4347
- Seasonal simulation of the southern ocean coupled ice-ocean system. Häkkinen, S., [1995.eng] 50-2113
- Sedimentary palaeoclimatic indicators: what they are and what they tell us. Parrish, J.T., et al. [1993.eng] 50-1208
- Seismic and gravity surveys of Scoresby Sound. Mandler, H., [1995.eng] 50-1547
- Shelf freezing and cryolithozone evolution of the Laptev Sea. Faryshev, A.I., [1990.rus] 50-1631
- Shoreline ecology program following the Exxon Valdez oil spill, pt.1. Page, D.S., et al. [1995.eng] 50-3921
- Small basin modeling of snow water equivalence using binary regression tree methods. Elder, K., et al. [1995.eng] 50-2406
- Snow cover distribution on a Wyoming glacier. Elder, K., [1995.eng] 50-2438
- Snow recognition and classification using ISOMIX. Li, L.X., et al. [1994.eng] 50-3999
- Snowmelt modelling by combining air temperature and a distributed radiation index. Cazorzi, F., et al. [1996.eng] 50-5689
- SO₂ distributions on Io. Sartoretti, P., et al. [1996.eng] 50-6529
- Source areas for storm runoff generation estimated by isotope methods and the TOPMODEL. Lepistö, A., et al. [1994.eng] 50-3193
- Spaceborne observation of atmospheric precursors to polar stratospheric cloud formation. Geller, M.A., et al. [1995.eng] 50-4539
- Stratospheric temperatures during AASE: results from STRATAN. Rood, R.B., et al. [1990.eng] 50-5979
- Stratospheric water vapor annual cycle. Mote, P.W., [1995.eng] 50-626
- Surface morphology and backscattering of ice-ridge sails in the Baltic Sea. Manninen, A.T., [1996.eng] 50-4899
- Surface temperature from ERS-1 ATSR infrared thermal satellite data in polar regions. Stroeve, J., et al. [1996.eng] 50-6568
- Test of variant soil moisture conditions on the Canadian Global Forecast Model. Delage, Y., et al. [1995.eng] 50-1528
- Theoretical basis for passive microwave remote sensing of cirrus. Evans, K.F., et al. [1992.eng] 50-3565
- Theory of atmospheric ice crystal growth and sublimation. Nelson, J.T., et al. [1996.eng] 50-4351
- Thermal regime of Holocene Greenland ice sheet moraine formation. Van Tatenhove, F.G.M., et al. [1996.eng] 50-5582
- Thermohaline circulation of the Arctic Ocean. Poliakov, I.V., et al. [1995.rus] 50-4118
- Use of AVHRR-derived cloudiness and precipitation in weather forecasting. Karlsson, K.-G., [1992.eng] 50-228
- Vegetation of land-bridge Beringia. Young, S.B., [1982.eng] 50-3377
- Weather forecasting for antarctic air and sea operations. Wattam, S., et al. [1995.eng] 50-5589
- Zonal asymmetries in simulation of arctic stratospheric ozone. Isaksen, I.S.A., et al. [1990.eng] 50-6026
- See [also]: Avalanche modeling; Computerized simulation; Ice models; Mathematical models; Simulation

Modification

- Ottawa tests low-cost salt pre-wetting system. Miner, M., [1995.eng] 50-3292

Modular construction

- Automatic integrated module installed at Terra Nova Bay. Lori, A., [1994.eng] 50-4281
- Heat interactions between block-unit structures in permafrost soils. Gorbacheva, V.M., et al. [1990.rus] 50-1615
- Siberian company starts up modular refinery. [1996.eng] 50-5575

Moisture

- Deformation of frozen sandy soils with a cloddy structure during thawing. Shevchenko, L.V., et al. [1996.rus] 50-6832
- Dielectric moisture measurement of frozen ground. Frolov, A.D., [1996.rus] 50-6835

Moisture transfer

- Heat and moisture supply of natural biogeocenoses in the Northern, Subpolar and Polar Urals. Belonenko, G.V., et al. [1994.rus] 50-269
- Persistence of white phosphorus particles in sediment. Walsh, M.E., et al. [1995.eng] 50-878
- Phase composition of moisture in saline frozen ground. Motenko, R.G., et al. [1996.rus] 50-6837
- Weathering processes in marbles from Independence and Patriot Hills. Yoshikawa, K., et al. [1995.eng] 50-4383
- See [also]: Humidity; Soil water; Water content
- Moisture detection**
- Moisture profiling of the cloudy winter atmosphere using combined remote sensors. Stankov, B.B., et al. [1995.eng] 50-158
- Scanning electron microscopy of free water in frozen plant tissues. Yaklich, R.W., et al. [1996.eng] 50-5209
- Soil moisture content and water potential determined by filter paper. Waters, T.J., [1980.eng] 50-2449
- Study on the remote sensing information model of soil moisture. Ma, A.N., et al. [1990.chi] 50-6661
- Use of SAR satellite imagery to measure active layer moisture contents in arctic Alaska. Kane, D.L., et al. [1994.eng] 50-5695
- Moisture meters**
- System for measuring moisture in the Taklimakan Desert soil. Fujitani, T., et al. [1991.jpn] 50-1436
- Moisture transfer**
- Adaptation of tree seedlings to subalpine meadow soil moisture variations. Kuuluvainen, T., et al. [1996.eng] 50-4337
- Analysis of moisture transfer in the aeration zone of the cryolithosphere. Shepelev, V.V., [1996.rus] 50-6817
- Atmospheric contribution to hydrologic variations in the Arctic. Walsh, J.E., et al. [1994.eng] 50-1034
- Atmospheric water vapour budget over Greenland. Calanca, P., [1994.eng] 50-4944
- Development of a regional climate model of the western Arctic. Lynch, A.H., et al. [1995.eng] 50-597
- Distribution and transport of atmospheric water vapour over the arctic basin. Serreze, M.C., et al. [1995.eng] 50-5217
- Foundation heave induced by a subgrade cooling system over permafrost. Scher, R.L., [1991.eng] 50-1737
- Freeze-thaw dewatering and structural enhancement of fine coal tails. Shahl, R.P., et al. [1995.eng] 50-357
- Freeze/thaw treatment on waste activated sludge: a FTIR spectroscopic study. Hong, S.G., et al. [1995.eng] 50-1568
- Further discussion on simulation of the modern arctic climate by the NCAR CCM1. Williamson, D.L., et al. [1996.eng] 50-6573
- Glacial drainage towards the Mediterranean during the Middle and Late Pleistocene. Arkhipov, S.A., et al. [1995.eng] 50-1799
- Hydrologic cycle parameterization for energy balance climate models. Chu, S.P., et al. [1995.eng] 50-587
- Ice cloud microphysics in a general circulation model, pt.1. Fowler, L.D., et al. [1996.eng] 50-5015
- Influence of moisture on FRP composites. Bhattacharya, R.K., et al. [1995.eng] 50-2468
- Isotopic analysis of snow on Asian glacier surfaces. Aizen, V.B., et al. [1996.eng] 50-5256
- Maintenance of the last great ice sheets: a UGAMP GCM study. Hall, N.M.J., et al. [1996.eng] 50-5531
- Migration of chemical elements in frozen rocks. Chuvilin, E.M., et al. [1996.rus] 50-6820
- Migration of moisture during the freezing of porous media. Gorelik, I.A.B., et al. [1989.rus] 50-2256
- Modeling and observational study of East Antarctic surface mass balance. Connolly, W.M., et al. [1996.eng] 50-3017
- Moisture movement and freezing pressures. Hoekstra, P., [1968.eng] 50-1976
- Moisture transfer, water-soluble substances and structural transformation during freezing. Brovka, G.P., et al. [1996.rus] 50-6821
- Numerical analysis of atmospheric water cycle over Antarctica. Bromwich, D.H., et al. [1995.eng] 50-2020
- Numerical simulation of arctic stratus cloud turbulence. Smith, W.S., et al. [1996.eng] 50-2773
- On the interannual variability of precipitation and runoff in the Mackenzie drainage basin. Björnsson, H., et al. [1995.eng] 50-2737
- On the prediction of hydraulic conductivity of frozen soils. Tarnawski, V.R., et al. [1996.eng] 50-4307
- Origin of present-day antarctic precipitation from surface snow deuterium excess data. Clais, P., et al. [1995.eng] 50-636
- Paleoclimatic implications of Swedish lake-level fluctuations. Almqvist-Jacobson, H., [1995.eng] 50-2716
- Probabilistic approach to determining frost heave. Chamberlain, E.J., et al. [1981.eng] 50-2141
- Relations between atmospheric circulation and glacier mass balance. McCabe, G.J., Jr., et al. [1995.eng] 50-3323
- Simulation of soil moisture variations reflecting the hydrological cycle. Akinremi, O.O., et al. [1996.eng] 50-5918
- Soil polygenesis as a function of Quaternary climate change, northern Great Basin, USA. Chadwick, O.A., et al. [1995.eng] 50-1831
- Test of variant soil moisture conditions on the Canadian Global Forecast Model. Delage, Y., et al. [1995.eng] 50-1528
- Variability in atmospheric circulation and moisture flux over the Arctic. Serreze, M.C., et al. [1995.eng] 50-5228
- Water in lichens at subzero temperatures. Schroeter, B., et al. [1995.eng] 50-2842

Molecular energy levels

- Water vapor saturation at low altitudes around Mars aphelion: a key to Mars climate? Clancy, R.T., et al. [1996,eng] 50-5831
- What you need to know about prewetting deicers. Mergenmeier, A. [1995,eng] 50-3857
- See [also]: Soil water migration
- Molecular energy levels**
- Action of HPLC6 antifreeze polypeptide in solution. Brooke-Taylor, C.A., et al. [1996,eng] 50-5298
- Amorphous ice molecular transitions under electron bombardment. Kimmel, G.A., et al. [1995,eng] 50-156
- Anisotropy in the adsorption of H_2O at low coordination sites on Pt(111). Morgenstern, M., et al. [1996,eng] 50-6199
- Calculation of free energy for molecular crystals by thermodynamic integration. Báez, L.A., et al. [1995,eng] 50-1951
- Calorimetric study of water two-dimensionally condensed on the homogeneous surface of a solid. Nagao, M., et al. [1995,eng] 50-2024
- Classical and quantum mechanical studies of ice Ih near the melting temperature. Gai, H.D., et al. [1996,eng] 50-3099
- Clathrate-like structures in supercooled water. Walrafen, G.E., et al. [1995,eng] 50-155
- Comment on "Surface layers on ice" by C.A. Knight. Baker, M.B., et al. [1996,eng] 50-6059
- Cooperative polarisation in ice I_h and the unusual strength of the hydrogen bond. Heggie, M.I., et al. [1996,eng] 50-3958
- Cryogenic properties of polymers. Yano, O., et al. [1995,eng] 50-1550
- Depolarized light scattering spectroscopy of glassforming liquids: experimental tests of MCT. Cummins, H.Z., et al. [1995,eng] 50-1222
- Diffuse interface analysis of ice nucleation in undercooled water. Gránády, L., [1995,eng] 50-1279
- Dipole moment of the water molecule in the condensed phase: a periodic Hartree-Fock estimate. Gatti, C., et al. [1995,eng] 50-3817
- Dynamics of metastable states: mode-coupling theory and beyond. Duffy, J.W., et al. [1995,eng] 50-1221
- Electrical properties of pure and doped ice Ih. Taubenberger, R., [1982,ger] 50-5761
- Electron-stimulated dissociation of amorphous ice. Kimmel, G.A., et al. [1995,eng] 50-2160
- Energetics of framework formation in cubic clathrate hydrates. Kosiakov, V.I., et al. [1995,eng] 50-3677
- Erratum for paper by K. Fujii. Fujii, K., [1996,eng] 50-5938
- Evaporation rate, free energy, and entropy of amorphous water at 150 K. Speedy, R.J., et al. [1996,eng] 50-5920
- Freezable water in portland cement paste. Gress, D.L., et al. [1995,eng] 50-2631
- Helium atom scattering study of water adsorption on the NaCl(100) single crystal surface. Bruch, L.W., et al. [1995,eng] 50-412
- Homogeneous nucleation in supercooled molecular clusters. Bartell, L.S., et al. [1995,eng] 50-1280
- Ions and dipoles in water and ice, and their transfer through the interface. Von Hippel, A., et al. [1974,eng] 50-5739
- Isotopic exchange during glass transition of amorphous ice. Fisher, M., et al. [1995,eng] 50-150
- Liquid-glass transition in a strong glassformer. Torell, L.M., et al. [1995,eng] 50-1225
- Mean amplitude of the OH...O hydrogen bond in ice and liquid water. Iijima, T., [1996,eng] 50-5022
- Mode coupling in critical phenomena and supercooled liquids. Kawasaki, K., [1995,eng] 50-1219
- Mode coupling theory of structural relaxations. Götz, W., et al. [1995,eng] 50-1220
- Molecular dynamic simulation of proton transport in supercooled water. Di Cola, D., et al. [1996,eng] 50-3715
- Molecular dynamics investigations of slow relaxations in supercooled liquids. Hansen, J.P., et al. [1995,eng] 50-1226
- Molecular dynamics simulation of ice crystal growth. Nada, H., et al. [1996,jpn] 50-4932
- Molecular dynamics simulation of vapor deposited amorphous ice. Essmann, U., et al. [1995,eng] 50-419
- Molecular dynamics simulation studies on ice: interatomic models. Kawamura, K., [1996,jpn] 50-6733
- Molecular dynamics study of surface melting on ice crystal. Nada, H., et al. [1994,eng] 50-3073
- Molecular dynamics study of the freezing of clusters of chalcogen hexafluorides. Kinney, K.E., et al. [1996,eng] 50-5780
- Monitoring clathrate hydrate formation on ice surfaces. Pietrass, T., et al. [1995,eng] 50-2127
- New approach to the dynamics of hydrogen bond network in liquid water. Matsumoto, M., et al. [1996,eng] 50-3616
- Nucleation rates in freezing of molecular clusters. Bartell, L.S., [1995,eng] 50-2346
- Numerical studies of Langevin equations for the dynamics of a dense hard sphere fluid. Valls, O.T., et al. [1995,eng] 50-1228
- Observation of Fano interference in high-pressure ice VII. Aoki, K., et al. [1996,eng] 50-3337
- Observations of molecular ices. Whittet, D.C.B., [1993,eng] 50-3363
- Phase equilibria in extended simple point charge ice-water systems. Báez, L.A., et al. [1995,eng] 50-2606
- Phase transition of the hydrogen-bonded crystals and ice. Fujii, K., [1995,eng] 50-1112
- Propagation of elastic waves in ice. Ryzhkin, I.A., [1984,eng] 50-5787

Molecular structure

- Proton-ordered ice structures at zero pressure. A quantum-mechanical investigation. Pisani, C., et al. [1996,eng] 50-5935
- Quartzlike polymorph of ice. Svishev, I.M., et al. [1996,eng] 50-4412
- Recent molecular dynamics simulation studies on ice: vibrational spectra of ice. Itoh, H., [1996,jpn] 50-4938
- Residual entropy of ice. Ihm, J.S., [1996,eng] 50-3643
- Similarity of vibrational spectra of high-density amorphous ice and high-pressure phase ice VI. Kolesnikov, A.I., et al. [1995,eng] 50-937
- Simulation of clathrate hydrate thermal conductivity. Inoue, R., et al. [1996,eng] 50-5505
- Slow dynamics of water molecules in supercooled states. Gallo, P., et al. [1996,eng] 50-4293
- Solvation of hydrogen halides on the surface of ice. Robertson, S.H., et al. [1995,eng] 50-6069
- Sputtering of ices in the outer solar system. Johnson, R.E., [1996,eng] 50-5296
- Structural isotope effect in water bilayers adsorbed on Ru(001). Held, G., et al. [1995,eng] 50-871
- Structure of amphiphile monolayer adsorbed on ice Ih. Bell, K.P., et al. [1996,eng] 50-4023
- Structures and phase transitions of amorphous ices. Okabe, I., et al. [1996,eng] 50-5103
- Supercooled liquids. Mohanty, U., [1995,eng] 50-1405
- Testing mode-coupling theory for a supercooled binary Lennard-Jones mixture. Kob, W., et al. [1995,eng] 50-1227
- Theory of inelastic x-ray scattering by phonons in ice. Johansson, P., [1996,eng] 50-6329
- Thermodynamic stability of hydrates for ethane, ethylene, and carbon dioxide. Kvamme, B., et al. [1996,eng] 50-5019
- Time-dependent wave-packet studies on the sticking of HCl to an ice surface. Wang, L.C., et al. [1996,eng] 50-4767
- Water rotation in supercooled aqueous solutions. Nakahara, M., et al. [1995,eng] 50-153
- X-ray analysis of frozen clathrate hydrates. Bednarek, J., et al. [1996,eng] 50-4555
- Molecular structure**
- Action of HPLC6 antifreeze polypeptide in solution. Brooke-Taylor, C.A., et al. [1996,eng] 50-5298
- Adsorption and desorption of water on single crystal MgO(100): the role of surface defects. Sriman, M.J., et al. [1996,eng] 50-5937
- Alcohols in interstellar ice mantles. Charnley, S.B., et al. [1995,eng] 50-5101
- Amorphous ice molecular transitions under electron bombardment. Kimmel, G.A., et al. [1995,eng] 50-156
- Anisotropy in the adsorption of H_2O at low coordination sites on Pt(111). Morgenstern, M., et al. [1996,eng] 50-6199
- Biochemistry of bacterial ice nuclei. Fall, R., et al. [1995,eng] 50-3274
- Calculation of free energy for molecular crystals by thermodynamic integration. Báez, L.A., et al. [1995,eng] 50-1951
- Calorimetric study of water two-dimensionally condensed on the homogeneous surface of a solid. Nagao, M., et al. [1995,eng] 50-2024
- Clathrate-like structures in supercooled water. Walrafen, G.E., et al. [1995,eng] 50-155
- Comments on the crystal structure of solid trichlorofluoromethane. Prado, P., et al. [1995,eng] 50-3144
- Cooperative polarisation in ice I_h and the unusual strength of the hydrogen bond. Heggie, M.I., et al. [1996,eng] 50-3958
- Cooperativity and hydrogen bond network lifetime in liquid water. Lamanna, R., et al. [1995,eng] 50-5714
- Cryogenic properties of polymers. Yano, O., et al. [1995,eng] 50-1550
- Crystal structure of dichlorofluoromethane. Pridmore, R.W., et al. [1996,eng] 50-4695
- Diffusion of helium through ice. Davy, J.G., et al. [1970,eng] 50-5748
- Dipole moment of the water molecule in the condensed phase: a periodic Hartree-Fock estimate. Gatti, C., et al. [1995,eng] 50-3817
- Disorder in ice Ih. Nield, V.M., et al. [1995,eng] 50-1134
- Elastic properties of dense H_2O -ices studied by Brillouin spectroscopy. Shimizu, H., [1996,eng] 50-6725
- Energetics of framework formation in cubic clathrate hydrates. Kosiakov, V.I., et al. [1995,eng] 50-3677
- Evidence for ferroelectric ordering of ice Ih. Jackson, S.M., et al. [1995,eng] 50-1573
- Experimental study of dielectric relaxation in supercooled alcohols and polyols. Murthy, S.S.N., [1996,eng] 50-4084
- Explanation of the density maximum in water. Cho, C.H., et al. [1996,eng] 50-4346
- Fluorescence spectra and lifetime of 2-naphthol in H_2O - and D_2O -ice(I_h) single crystal. Ping, Q., et al. [1995,eng] 50-2161
- Formation of ice between hydrotalcite particles measured by thermoporometry. Titulaer, M.K., et al. [1996,eng] 50-6330
- Geometry and energy calculations of the HS-III polyhedral gas hydrate framework. Kosiakov, V.I., et al. [1995,eng] 50-3676
- Helium atom scattering study of water adsorption on the NaCl(100) single crystal surface. Bruch, L.W., et al. [1995,eng] 50-412
- High-density amorphous ice, the frost on interstellar grains. Jenniskens, P., et al. [1995,eng] 50-2780
- High-pressure elastic properties of the VI and VII phase of ice in dense H_2O and D_2O . Shimizu, H., et al. [1996,eng] 50-4355

- Homogeneous nucleation in supercooled molecular clusters. Bartell, L.S., et al. [1995,eng] 50-1280
- Ice nucleation genes as reporters. Panopoulos, N.J., [1995,eng] 50-3285
- Ice nucleation-active genes and proteins. Warren, G.J., [1995,eng] 50-3275
- Ice/supercooled water linear correlation length from Raman spectroscopy. Walrafen, G.E., et al. [1995,eng] 50-152
- Isotopic exchange during glass transition of amorphous ice. Fisher, M., et al. [1995,eng] 50-150
- Kinetics of freezing of dimethylacetylene. An electron diffraction study. Huang, J.F., et al. [1995,eng] 50-151
- Mean amplitude of the OH...O hydrogen bond in ice and liquid water. Iijima, T., [1996,eng] 50-5022
- Microscopic dynamics of glycerol in its crystalline and glassy states. Bermejo, F.J., et al. [1996,eng] 50-4418
- Molecular and genetic diversity of arctic bedding plants. Abbott, R.J., et al. [1995,eng] 50-4093
- Molecular dynamic simulation of proton transport in supercooled water. Di Cola, D., et al. [1996,eng] 50-3715
- Molecular dynamics simulation of ice crystal growth. Nada, H., et al. [1996,jpn] 50-4932
- Molecular dynamics simulation of vapor deposited amorphous ice. Essmann, U., et al. [1995,eng] 50-419
- Molecular dynamics simulation studies on ice: interatomic models. Kawamura, K., [1996,jpn] 50-6733
- Molecular dynamics study of surface melting on ice crystal. Nada, H., et al. [1994,eng] 50-3073
- Molecular dynamics study of the freezing of clusters of chalcogen hexafluorides. Kinney, K.E., et al. [1996,eng] 50-5780
- Molecular modeling of the three-dimensional structure of bacterial Ipa proteins. Kajava, A.V., [1995,eng] 50-3276
- Molecular studies of a winter flounder antifreeze polypeptide. McDonald, S.M., [1995,eng] 50-676
- Monitoring clathrate hydrate formation on ice surfaces. Pietrass, T., et al. [1995,eng] 50-2127
- Neutron scattering of high pressure ice polymorphs. Li, J.C., et al. [1996,eng] 50-6344
- New approach to the dynamics of hydrogen bond network in liquid water. Matsumoto, M., et al. [1996,eng] 50-3616
- New high-pressure phase of ice. Benoit, M., et al. [1996,eng] 50-6096
- Nucleation rates in freezing of molecular clusters. Bartell, L.S., [1995,eng] 50-2346
- Observation of Fano interference in high-pressure ice VII. Aoki, K., et al. [1996,eng] 50-3337
- Observations of molecular ices. Whittet, D.C.B., [1993,eng] 50-3363
- Phase equilibria in extended simple point charge ice-water systems. Báez, L.A., et al. [1995,eng] 50-2606
- Phase transition of the hydrogen-bonded crystals and ice. Fujii, K., [1995,eng] 50-1112
- Planktonic DNA diversity in the Canadian high Arctic. Van Raay, T.J., et al. [1995,eng] 50-4092
- Proton-ordered ice structures at zero pressure. A quantum-mechanical investigation. Pisani, C., et al. [1996,eng] 50-5935
- Quartzlike polymorph of ice. Svishev, I.M., et al. [1996,eng] 50-4412
- Recent molecular dynamics simulation studies on ice: vibrational spectra of ice. Itoh, H., [1996,jpn] 50-4938
- Relaxation dynamics of supercooled polymers. Parthun, M.G., et al. [1995,eng] 50-1572
- Relaxation processes in supercooled carbohydrates. Gangasharan, et al. [1995,eng] 50-1571
- Residual entropy of ice. Ihm, J.S., [1996,eng] 50-3643
- Role of uncompressible alcohol monolayers as ice nucleators. Majewski, J., et al. [1995,eng] 50-3040
- Similarity of vibrational spectra of high-density amorphous ice and high-pressure phase ice VI. Kolesnikov, A.I., et al. [1995,eng] 50-937
- Simulated effects of dichlorine hexoxide on stratospheric ozone depletion. Parthiban, S., et al. [1995,eng] 50-2019
- Simulated structure of ice nano-crystalline surface. Buch, V., et al. [1996,eng] 50-4183
- Spectrometry of frozen organic surface ionization. Betts, R.L., et al. [1995,eng] 50-657
- Spectroscopy of deuterium oxide ice adsorbed onto a hydrocarbon. Engquist, I., et al. [1995,eng] 50-1855
- Structural characteristics of hydrogen-bonded networks in water and ice systems. Dore, J.C., et al. [1995,eng] 50-2697
- Structural isotope effect in water bilayers adsorbed on Ru(001). Held, G., et al. [1995,eng] 50-871
- Structure of amphiphile monolayer adsorbed on ice Ih. Bell, K.P., et al. [1996,eng] 50-4023
- Structure of ice Ih from analysis of single-crystal neutron diffuse scattering. Nield, V.M., et al. [1995,eng] 50-2696
- Structure of ordinary ice I_h . Part II: Defects in ice. Volume 2: Dislocations and plane defects. Petrenko, V.F., et al. [1994,eng] 50-390
- Structure of solid fluorine. Torrie, B.H., et al. [1996,eng] 50-4696
- Structures and phase transitions of amorphous ices. Okabe, I., et al. [1996,eng] 50-5103
- Subzero temperature water behavior in nonionic microemulsions. pt.1. Garai, N., et al. [1996,eng] 50-3409
- Surface features of interstellar ice. McCoustra, M., et al. [1996,eng] 50-5244
- Theory of inelastic x-ray scattering by phonons in ice. Johansson, P., [1996,eng] 50-6329

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- Thermodynamic stability of hydrates for ethane, ethylene, and carbon dioxide. Kvamme, B., et al. [1996,eng] 50-5019
- Time dependence of dislocation arrays in ice during recrystallization. van der Elken, J., et al. [1996,eng] 50-6346
- Time-dependent wave-packet studies on the sticking of HCl to an ice surface. Wang, L.C., et al. [1996,eng] 50-4767
- Unfrozen water types in hydrated phospholipid bilayers. Hsieh, C.H., et al. [1995,eng] 50-3038
- Water rotation in supercooled aqueous solutions. Nakahara, M., et al. [1995,eng] 50-153
- X-ray analysis of frozen clathrate hydrates. Bednarek, J., et al. [1996,eng] 50-4555
- X-ray and neutron scattering studies of the structure of water at a hydrophobic surface. Bellissent-Funel, M.C., et al. [1996,eng] 50-5713
- Mongolia**
- Impact of fires on mountain sod-taiga soils under larch forests in Mongolia. Krasnoshechekov, I.U.N., [1995,eng] 50-2715
- Soil degradation in the steppes of northern Mongolia. Opp, C., et al. [1993,eng] 50-1680
- Solifluction and related slope processes in the mountains of central Asia (Mongolia). Pekala, K., et al. [1993,eng] 50-832
- Monitors**
- Aerial surveillance of oil sheen following the Exxon Valdez oil spill shoreline cleanup. Taft, D.G., et al. [1995,eng] 50-3919
- Automated measurements of snow temperature profiles in the Cairngorm mountains, Scotland. Purves, R.S., et al. [1995,eng] 50-2795
- Environmental activity management and control exercised by pipelaying association. Shishov, V.N., [1991,eng] 50-1762
- Methods for creating a monitor of dangerous natural phenomena using an electronic map. Biedenko, S.I., [1991,rus] 50-1290
- NORSAMP '89-Norwegian remote sensing spectrometry for mapping and monitoring of algal blooms and pollution. Petersson, L.H., et al. [1992,eng] 50-622
- Organization of the river and flood program in the National Weather Service. Stallings, E.A., et al. [1995,eng] 50-1135
- Satellite systems for hazard monitoring. Barrett, E.C., et al. [1992,eng] 50-619
- Studying arctic and subarctic ecosystems of impact regions using remote monitoring methods. Tereshenkov, O.M., et al. [1994,rus] 50-278
- Surveying methods and geocryological databases in the Russian GMGS system. Dubrov, V.A., et al. [1996,rus] 50-6856
- Telemonitoring of climatic loads on Hydro-Québec 735 kV lines. Hardy, C., et al. [1996,eng] 50-5358
- Temporal weather impacts upon exterior intrusion detection systems. Ryerson, C.C., et al. [1995,eng] 50-4544
- Transmission line ice measurements with tension monitoring systems. Seppä, T.O., [1996,eng] 50-5356
- Use of remote sensing spacecraft in real-time support for disaster management. Tortorici Montaperto, A., et al. [1992,eng] 50-620
- Video monitoring of atmospheric icing. Wareing, J.B., et al. [1995,eng] 50-204
- Waterflood monitoring enhancement of offshore Alaskan oil reservoir management. Starzer, M.R., et al. [1991,eng] 50-1712
- See [also]: Warning systems
- Monomolecular films**
- Formation of condensates on dust in interstellar clouds. Duley, W.W., et al. [1995,eng] 50-3290
- Helium atom scattering study of water adsorption on the NaCl(100) single crystal surface. Bruch, L.W., et al. [1995,eng] 50-412
- Reaction probabilities of ClONO₂ and N₂O₅ on polar stratospheric cloud materials. Hanson, D.R., et al. [1991,eng] 50-3649
- Role of uncompressed alcohol monolayers as ice nucleators. Majewski, J., et al. [1995,eng] 50-3040
- Spectroscopy of deuterium oxide ice desorption and substrate wettability. Engquist, I., et al. [1995,eng] 50-1570
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- Concrete TLP to sit out Barents bergs. Cottrill, A., [1990,eng] 50-3866
- Construction of non-class bridges and sea moorings under the conditions of the European North. Okin, E.I., et al. [1995,rus] 50-3081
- Flux of dense cold overflow water southeast of Iceland. Saunders, P.M., [1996,eng] 50-3145
- Forecasting the thermal regime of thin-walled moored structures under Arctic conditions. Shkola, A.V., et al. [1992,rus] 50-757
- New arctic drilling rig. [1987,eng] 50-4286
- Seasonal development of Beaufort Sea pack ice. Melling, H., et al. [1996,eng] 50-5857
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- See [also]: Glacial lakes
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- Ablation of debris-covered ice at Burroughs Glacier. Syverson, K.M., et al. [1995,eng] 50-3739
- Alpine glacial history reconstruction in Wyoming and Argentina. Gosse, J.C., [1994,eng] 50-672
- Analysis of stone size and shape in arctic environments. King, C.A.M., et al. [1968,eng] 50-5760
- Basic features of glacial landforms in the Miashan. Tang, B.X., et al. [1994,eng] 50-4783
- Beetle microhabitat distribution in a glacier ablation zone. Gerben, B.A., [1995,eng] 50-2812
- Block moraine formation of antarctic glaciers. Fitzsimons, S.J., [1996,eng] 50-6242
- Characteristics of the post-glacial advance and retreat in Mount Xixia Bangma region. Zheng, B.X., [1982,chi] 50-6606
- Climatic controls on glacier mass balance in Glacier Bay. Hunter, L.E., et al. [1995,eng] 50-3737
- Climatic implications of Norwegian Neoglacial glacier maximum. Matthews, J.A., [1991,eng] 50-3306
- Climatological significance of moraine ridges in Iceland. Krüger, J., [1995,eng] 50-2858
- Common features of the Upper Quaternary and historical glaciation in the Caucasus and Tien Shan. Gerasimov, V.A., [1972,rus] 50-543
- Composition and construction of late Pleistocene end moraines, Durango, Colorado. Johnson, M.D., et al. [1995,eng] 50-1859
- Concertina eskers, Briarjökull, Iceland: an indicator of surge-type glacier behavior. Knudsen, O., [1995,eng] 50-1407
- Contributions to research on Tibet. Pöge, K.H., ed., et al. [1994,ger] 50-4774
- Dating analysis of Norwegian Neoglacial moraines. Matthews, J.A., et al. [1996,eng] 50-4375
- Dating of soil development on Sierra Nevada moraines. Bach, A.J., et al. [1996,eng] 50-4630
- Debris transfer and sedimentary environments: alpine glaciated areas. Johnson, P.G., [1995,eng] 50-4828
- Deglaciation chronology of West Greenland moraines. Van Tatenhove, F.G.M., et al. [1996,eng] 50-5187
- Degradation of ice-moraine ridges in natural conditions. Szponar, A., [1993,eng] 50-2212
- Diagnostics of glacial and glacial-marine deposits and relief forms in Spitsbergen. Luchinskaja, T.N., et al. [1972,rus] 50-545
- Distribution and morphological types of recent glaciers in Mount Xixia Bangma region. Shi, Y.F., et al. [1982,chi] 50-6595
- Dry tundra succession in Central Chukotka. Kucherov, I.B., [1995,eng] 50-3173
- Early Holocene moraine bank sedimentology of East Greenland. Huddart, D., et al. [1990,eng] 50-929
- Early Pleistocene glaciation in the Qinling Mountains of China. Rost, K.T., [1992,ger] 50-1682
- Effect of sedimentation on the advance of a fjord-type glacier. Motyka, R.J., et al. [1995,eng] 50-3736
- Effects of moraine-bank sediment budgets on valley glacier stability. Hunter, L.E., et al. [1996,eng] 50-6263
- Electric soundings on polar landforms of the Northern Foothills. Guglielmin, M., et al. [1995,eng] 50-4391
- Englacial drainage influence on sediment transport pathways. Kirkbride, M., et al. [1996,eng] 50-6255
- Estimating long-term rockfall accretion rates by lichenometry. Luckman, B.H., et al. [1995,eng] 50-4836
- Evolution and age of shorelines along Woodford, northern Spitsbergen. Brückner, H., et al. [1994,eng] 50-1582
- Extent of the Warta Glaciation deposits in the northern foreland of the Lublin upland near Dęblin. Zarski, M., [1993,pol] 50-3669
- Fabric and structure in glaciofluvial gravels. Rust, B.R., [1975,eng] 50-4816
- Fluctuations of local glaciers at the termination of the Pleistocene: 18-8 ka BP. Clapperton, C.M., [1995,eng] 50-500
- Fluctuations of the South Patagonian ice-field during the last glaciation and the Holocene. Marden, C.J., et al. [1995,eng] 50-6211
- Fluctuations of the Vestfonna Ice Margin. Donner, J.J., et al. [1995,eng] 50-4505
- Flux of debris transported by ice at three Alaskan tidewater glaciers. Hunter, L.E., et al. [1996,eng] 50-4897
- Formation of De geer moraines deposited subglacially, central Québec. Beaudry, L.M., et al. [1995,eng] 50-5035
- Geomorphological and neotectonic features of Hurd Peninsula, Livingston Island, South Shetland Islands. Pallás, R., et al. [1995,eng] 50-1337
- Geomorphology and dynamics of the Laurentide Ice Sheet in Wisconsin. Ham, N.R., [1994,eng] 50-693
- Geoscientific Spitsbergen Expedition 1990-1992. Blümel, W.D., ed., [1994,ger] 50-1574
- Glacial and fluvial geomorphology of western Himalaya (Liddar Valley). Kaul, M.N., [1990,eng] 50-5550
- Glacial drift and the glacial epoch in the Quaternary period of Xinjiang. Peng, X.L., [1985,chi] 50-2000
- Glacial dynamics, material transfer and sedimentation in Spitsbergen. Solid, J.L., et al. [1994,eng] 50-1585
- Glacial evidence of climatic cooling during the Younger Dryas. Osborn, G.D., et al. [1995,eng] 50-4625
- Glacial isostatic uplift of Tibet as a consequence of a former ice sheet. Kuhle, M., [1995,eng] 50-6064
- Glacial landforms of Glen Geusachen. Bennett, M.R., et al. [1991,eng] 50-3034
- Glacial overdeepened valleys in the Austrian Alps. Van Husen, D., [1990,ger] 50-1790
- Glacial processes, sediments, landforms, and stratigraphy at Myrdalsjökull. Krüger, J., [1994,eng] 50-166
- Glacier fluctuations and sediment yields in Glacier Bay, Cai, J.K., et al. [1995,eng] 50-3733
- Glacier sediment transport. Kirkbride, M.P., [1995,eng] 50-3588
- Glaciers and climate of the mountains of the former USSR during the Neoglacial. Serebrianniy, L.R., et al. [1996,eng] 50-6552
- Glaciology and glacial geomorphology of fjords in Spitsbergen. King, L., et al. [1994,ger] 50-1586
- Glaciectonic process at Svalbard. Hambrey, M.J., et al. [1995,eng] 50-6559
- Glaciated structures and their morphological expression in the Warta Glaciation zone. Klatkova, H., [1993,pol] 50-3659
- Great Qinghai-Xizang ice sheet. Han, T.L., [1991,chi] 50-2176
- Grounding line and mass balance effects on glacier stability. Hunter, L.E., [1994,eng] 50-694
- Groundwater flow through Ontario glacial deposits. Gerber, R.E., et al. [1996,eng] 50-6750
- Growth curves for calcium-tolerant lichens in the Canadian Rocky Mountains. McCarthy, D.P., et al. [1995,eng] 50-3330
- Holocene glacial chronology in Patagonia: Tyndall and Upsala glaciers. Aniya, M., [1995,eng] 50-2806
- Holocene glacier variations in central Asia. Savoskul, O.S., et al. [1996,eng] 50-4372
- Holocene solifluction in the Swiss Alps: dating and climatic implications. Gampfer, M., [1993,eng] 50-824
- Holocene variations of Ameghino Glacier, southern Patagonia. Aniya, M., [1995,eng] 50-6081
- Ice sheet model test via glacial geological research in West Greenland. Van Tatenhove, F.G.M., et al. [1995,eng] 50-2013
- Ice-proximal sediment dynamics in Glacier Bay. Hunter, L.E., et al. [1995,eng] 50-3735
- Impact of subglacial groundwater flow on moraine formation. Boulton, G.S., et al. [1995,eng] 50-2129
- Inquiry on ice ages in Mount Xixia Bangma region. Shi, Y.F., et al. [1982,chi] 50-6605
- Isotope composition of the ice and subglacial geology near the Allan Hills. Faure, G., et al. [1993,eng] 50-6319
- Karakorum ice cover variations during the last glaciation. Kuhle, M., [1994,eng] 50-1533
- Landforms associated with Pleistocene glaciation in Ireland. Wilson, P., et al. [1995,eng] 50-5486
- Late Pleistocene equilibrium-line reconstructions in the northern Peruvian Andes. Rodbell, D.T., [1992,eng] 50-2549
- Late Quaternary glacial and climatic history of the Liddar Valley, Kashmir Himalaya. Kaul, M.N., [1994,eng] 50-5549
- Late Quaternary glaciation history and landscape development in Spitsbergen. Blümel, W.D., et al. [1994,ger] 50-1578
- Late Weichselian glacial maximum on Andoya, north Norway. Möller, J.J., et al. [1992,eng] 50-2546
- Late Wisconsinian ice retreat from the Scotian Shelf. King, L.H., [1996,eng] 50-6533
- Late-glacial advances in the western Italian Alps. Porter, S.C., et al. [1982,eng] 50-3383
- Late-Holocene glaciation and twentieth-century retreat, northeastern Brooks Range, Alaska. Evison, L.H., et al. [1996,eng] 50-4371
- Lateglacial and Holocene variations of the Grey Glacier, an outlet of the South Patagonian icefield. Marden, C.J., [1993,eng] 50-3013
- Lichenometric dating of alpine Little Ice Age moraines. Winkler, S., et al. [1995,ger] 50-3396
- Margin of the last Barents-Kara ice sheet at Markhida, northern Russia. Tveranger, J., et al. [1995,eng] 50-2014
- Marine and glacial Quaternary deposits of the southern Serkapp Land, Spitsbergen. Wójcik, A., et al. [1993,eng] 50-2215
- Mechanism of the development of the Pomeranian Phase marginal zone in the Lake Drawa district. Kąsy, P., [1990,pol] 50-5004
- Meteorites as surface exposure markers of blue icefield stability. Benoit, P.H., et al. [1994,eng] 50-1886
- Modelling mountain slopes from the Late Vistulian in Spitsbergen. Drecki, J., [1989,pol] 50-2881
- Modern glacial environments: processes, dynamics and sediments. Menzies, J., ed., [1995,eng] 50-3580
- Modern glaciomarine environments. Powell, R.D., et al. [1995,eng] 50-3594
- Moraine bank facies in Ireland. McCabe, A.M., et al. [1995,eng] 50-921
- Moraine bank ground-line process during coastal Maine deglaciation. Hunter, L.E., et al. [1996,eng] 50-6532
- Moraine dating supports Younger Dryas cooling event. Gosse, J.C., et al. [1995,eng] 50-1255
- Moraine formation from subglacial frozen sedimentation. Krüger, J., [1996,eng] 50-5830
- Moraine observations at the foot of Independence Hills. Ishimaru, S., et al. [1995,eng] 50-4382
- Moraine types from the last glaciation in the Qinghai-Xizang Plateau. Liu, S.J., et al. [1994,eng] 50-4782
- Moraines and buried ice in Terra Nova Bay area. Meneghel, M., et al. [1994,ita] 50-2825
- Moraines and ice scoured topographies in southern Patagonia. Yamada, S., [1992,eng] 50-380
- Morphometric characteristics of current glaciation in the mountains of Central Asia. Dolgushin, L.D., et al. [1972,rus] 50-528
- Nature of esker sedimentation. Banerjee, I., et al. [1975,eng] 50-4811
- New data on current and ancient glaciation in the Suntar-Khayata Mountains. Vinogradov, O.N., et al. [1972,rus] 50-536
- Old moraines in Lågnesfya (Western Spitsbergen). Musiał, A., [1989,pol] 50-2891

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- On ancient ice-sheet and ice age in the Tibetan Plateau. Xu, D.M., et al. [1995,chi] 50-5632
- On naled sheet processes which generate moraine ridges. Kyscz, P. [1993,eng] 50-2206
- On the Quaternary paleoglaciation action of the northern Tianshan. Zhang, H.Y. [1985,chi] 50-2001
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- Percentage of local rocks in fluvio-glacial deposits in central Poland. Krzemiński, T., et al. [1993,pol] 50-3662
- Permafrost in glaciofluvial sediments of the last glaciation. Habbe, K.A. [1993,eng] 50-1678
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- Pleistocene glacial lake sedimentology. Scotland. Benn, D.I. [1996,eng] 50-5827
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- Pleistocene stratigraphy of the Athabasca River valley region, Rocky Mountains, Alberta. Levson, V.M., et al. [1995,eng] 50-5037
- Pleistocene-Holocene transition in Sweden. Lord, A.R. [1990,eng] 50-931
- Postglacial sedimentation in the Liefdefjord area, NW Spitsbergen. Baumhauer, R., et al. [1994,ger] 50-1581
- Present glaciation in the mountains of Central Asia. Konov-alova, G.I. [1972,rus] 50-556
- Problems associated with the occurrence of glacial forms on the bottom of fjords in Spitsbergen. Kowalewski, W., et al. [1989,pol] 50-2879
- Problems in paleogeography and stratigraphy of the cold Warta stage in Poland. Klatkova, H., ed. [1993,pol] 50-3651
- Proceedings. Glacier Bay Science Symposium, 3rd, Glacier Bay National Park and Preserve, Gustavus, AK, Sep. 15-18, 1993. [1995,eng] 50-3730
- Processes of glaciotectionism. Van der Wateren, F.M. [1995,eng] 50-3590
- Profile of the sub-moraine organogenetic sediments in the fore-field of the Renard Glacier. Dzierzek, J., et al. [1989,pol] 50-2890
- Quaternary glacial in the Andes. Heine, K. [1995,eng] 50-4837
- Quaternary glaciation in the Karakoram and Himalayas. Derbyshire, E. [1996,eng] 50-5097
- Quaternary glaciations in the eastern and central Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4776
- Questions in the application of the actualism principle in glaciology. Tronov, M.V. [1972,rus] 50-538
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- Regional-scale meltwater erosion and deposition patterns, northern Quebec, Canada. Brennan, T.A., et al. [1996,eng] 50-6244
- Report on the Mount Xixia Bangma region scientific expedition, 1964. [1982,chi] 50-6593
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- Sedimentary and hydrologic processes within modern terrestrial valley glaciers. Lawson, D.E. [1995,eng] 50-3591
- Sedimentary environments associated with glacial Lake Tringham. Norfolk, UK. Hart, J.K. [1992,eng] 50-2554
- Sedimentology of the Brampton esker in Ontario. Sanderson, H.C. [1975,eng] 50-4812
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- Seed rain, seedling establishment and clonal growth strategies on a glacier foreland. Stocklin, J., et al. [1996,eng] 50-5295
- Seismic investigation of glacial tunnel channels. Pugin, A., et al. [1996,eng] 50-6257
- Sequence of glacial ice flows in Abitibi-Timiskaming. Veillette, J.J., et al. [1996,eng] 50-2499
- Simulation of Pleistocene glacial limits in Yunnan, China. Anyia, M., et al. [1991,eng] 50-3307
- Soil-weathering rate relations from glacial sediment chemical evolution. Taylor, A., et al. [1995,eng] 50-1806
- Some contributions to the study of landforms and geomorphic processes. Barsch, D., ed. et al. [1993,eng] 50-1671
- Steepland geomorphology. Slaymaker, O., ed. [1995,eng] 50-4827
- Study on Quaternary moraine debris of Mount Xixia Bangma region. Zhang, S.Y. [1982,chi] 50-6603
- Study on the sequences of the Quaternary glaciations in the Bayan Har Mountains. Zhou, S.Z. [1995,chi] 50-5633
- Supraglacial debris transport over time. Whalley, W.B., et al. [1996,eng] 50-6258
- Taku Glacier, southeast Alaska, U.S.A.: Late Holocene history of a tidewater glacier. Motyka, R.J., et al. [1996,eng] 50-4335
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- Using geophysical methods to study characteristics of the Dzhankut Glacier moraines. Aleshin, A.S., et al. [1972,rus] 50-526
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- Mosses**
Alpine bryophyte communities. Geissler, P. [1982,eng] 50-5413
Anthropogenic effect on plant communities on Okulabr'skaya Revoliutsiya I. Gavrilov, M.V. [1991,rus] 50-1309
Atmospheric CO₂ in peat. White, J.W.C., et al. [1994,eng] 50-3770
Bryophyte vegetation in polar regions. Longton, R.E. [1982,eng] 50-5412
Bryophytes collected in arctic tundra of the Lyellstranda region. Swies, F., et al. [1993,eng] 50-2193
Clonal diversity in an arctic sedge. Jonsson, B.O., et al. [1996,eng] 50-6076
Diversity of pine forests in the Lapland State Reserve, the Kola Peninsula. Neshateev, V.I.U., et al. [1995,eng] 50-3174
Dry tundra succession in Central Chukotka. Kucherov, I.B. [1995,eng] 50-3173
Ecophysiology of a snow-bed moss during snowmelt. Woolgrove, C.E., et al. [1996,eng] 50-6748
Effects of elevated N-input and CO₂ on *Sphagnum* with different trophic level. Jaubert, J., et al. [1994,eng] 50-3214
Effects of oil spills on high arctic plant communities in Greenland. Bay, C., et al. [1994,eng] 50-303
Formation characteristics of the thermal regime of rocks in the Vitim River. Leibman, M.O. [1985,rus] 50-248
Gamma emitters in the Barents Sea area. Matishov, D.G., et al. [1993,eng] 50-2191
Growth response of mosses to simulated subarctic environmental change. Potter, J.A., et al. [1995,eng] 50-3860
Heavy metal concentrations in peat profiles from the high Arctic. Headley, A.D. [1996,eng] 50-3721
High altitude (above timber-line) bryoflora of Kumaun Himalaya. Tewari, S.D., et al. [1994,eng] 50-5431
Lichen accumulation of airborne metals adjacent to a lead-zinc mine. Pilegaard, K., [1994,eng] 50-5604
Materials for a flora of the leafy mosses of the European part of the Northern Urals. Zheleznova, G.V., et al. [1995,eng] 50-3177
- Micro-scale patterns of modern pollen deposition within three alpine plant communities. Pardoe, H.S., [1996,eng] 50-4253
Moss species discovered in Arctic Canada. Hedderson, T.A., et al. [1992,eng] 50-6523
Natural recovery and assisted revegetation in dwarf shrub dominated communities in Greenland. Strandberg, B., [1994,eng] 50-305
Northern wilderness areas: ecology, sustainability, values. International Conference on Northern Wilderness Areas, Arctic Centre, University of Lapland, Rovaniemi, Finland, Dec. 7-9, 1994. [1995,eng] 50-3167
Plant species diversity of Bely Island. Rebristia, O.V. [1995,eng] 50-3176
Quaternary bryophyte palaeo-ecology. Birks, H.J.B., [1982,eng] 50-5414
Reaction of plant communities to technogenic disturbances in tundra in Yamal. Khitun, O.V., et al. [1994,rus] 50-258
Recovery characteristics for forest ecosystems after fires. Gorkov, V.V., et al. [1992,eng] 50-3407
Reversible photoinhibition in antarctic moss during freezing and thawing. Lovelock, C.E., et al. [1995,eng] 50-2854
Seasonal variations in frost tolerance and sugar content of two *Plagiommium* species. Rütten, D., et al. [1993,eng] 50-6524
Snowbed bryophyte tissue composition related to air pollution. Woolgrove, C.E., et al. [1996,eng] 50-4004
Sphagnum photosynthesis and primary production in arctic Alaska. Murray, K.J., [1994,eng] 50-689
Tardigrada of the arctic tundra with descriptions of two new species. Maucchi, W., [1996,eng] 50-5293
Tardigrades of the Taimyr peninsula with descriptions of two new species. Biserov, V.I., [1996,eng] 50-5294
Water relations in wet sedge-moss tundra at a high arctic oasis. Nosko, P., et al. [1995,eng] 50-74
- Motor vehicles**
Automobile emissions under arctic conditions. Andres, R.J., et al. [1996,eng] 50-6173
Behavior of vehicles driven in blowing snow. Fukuzawa, Y., et al. [1994,jpn] 50-2826
Cold weather tests of 4-wheeled armored military vehicle. Davis, J.B., et al. [1996,eng] 50-5665
Cold weather tests of medium tactical vehicles. Storey, J.B., [1996,eng] 50-5655
Damage to equipment and structures in the North. Novopashin, M.D., et al. [1993,rus] 50-465
Jeeps along the Fjöllur River: handbook of highland travel. Gislason, G.M., ed. [1994,ice] 50-2789
Low-temperature environmental testing system design—Part 1. Lynde, P.G., et al. [1996,eng] 50-2457
Matériel delivery to A-SSP Station. DenHartog, S.L., et al. [1995,eng] 50-1195
Road condition reporting vehicles (Part 2). Harada, N., et al. [1995,jpn] 50-6741
Service evaluation of light de-icing and snowplowing equipment. Girardin, M., [1995,eng] 50-4037
Spreader of choice for Michigan's snow-bound Upper Peninsula. Haag, J., [1995,eng] 50-1086
Technical development of snow removal and ice control machine. Kuriyama, H., [1995,jpn] 50-3510
Tests on snowplows (continuation)—tests on improving the performance of snowplows. Hokkaido Development Bureau, [1995,jpn] 50-6740
Windshield wiping device for automobiles. Kühbauch, G., [1993,ger] 50-2389
See [also]: All terrain vehicles; Amphibious vehicles; Snow vehicles; Tracked vehicles; Tractors
- Motors**
See [also]: Engines
- Mountain glaciers**
12,000 year radiocarbon date of deglaciation from the continental divide of northwestern Montana. Carrara, P.E., [1995,eng] 50-3299
Abraded rock landforms (whalebacks) developed under ice streams in mountain areas. Evans, I.S., [1996,eng] 50-6234
Alpine glaciers in the Little Ice Age—catalogue and C¹⁴ documentation. Zumbühl, H.J., et al. [1990,ger] 50-3398
Alpine glaciers in the Little Ice Age. Zumbühl, H.J., et al. [1988,ger] 50-3397
Analysis of morphological characteristics of regions of glaciation. Vinogradov, O.N., et al. [1972,rus] 50-547
Asian glacier ice flow and mass continuity. Cherkasov, P.A., et al. [1996,eng] 50-6057
Basal ice facies and their formation in the western Alps. Hubbard, B., et al. [1995,eng] 50-2805
Changes in the composition of major ions in the Marukh Glacier in summer, 1970. Shadrina, O.V., [1972,rus] 50-555
Characteristics of dynamics and ablation of glaciers in Patagonia. Naruse, R., [1995,jpn] 50-1173
Characteristics of the glaciation of the Alay mountain system. Suslov, V.F., [1973,rus] 50-427
Climate change in mountain environments. Willis, I., et al. [1995,eng] 50-1522
Comments on paper by González Suárez et al. Frichoso, M., et al. [1995,eng] 50-463
Correlation of glacial episodes in Poland and Scandinavia. Lindner, L., et al. [1995,eng] 50-2611
Current and ancient glaciation in the Chveshuri River basin (central range of the Caucasus). Gobeidzhishvili, R.G., [1972,rus] 50-531
Danger of lake burst flooding from a Himalayan glacial lake. Watanabe, T., et al. [1995,eng] 50-3338

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Mountains

- Dating analysis of Norwegian Neoglacial moraines. Matthews, J.A., et al. [1996,eng] 50-4375
- Determination of snowmelt factor in the Himalayan region. Singh, P., et al. [1996,eng] 50-5705
- Discussion on the Quaternary glaciations in the Karakorum-West Kunlun Mountains. Li, B.Y., et al. [1994,eng] 50-1534
- Distribution and morphological types of recent glaciers in Mount Xixia Bangma region. Shi, Y.F., et al. [1982,chi] 50-6595
- Distribution, growth, and variation of glaciers in the Kunlun Mountains. Zhang, Z.S., et al. [1986,chi] 50-1989
- Dust in glaciers around Taklimakan Desert. Han, J.K., et al. [1995,eng] 50-615
- Energy balance model for a small valley glacier, pt.1. Arnold, N.S., et al. [1996,eng] 50-4893
- Energy characteristics of a mountain-glacier basin (in the example of the Aktru basin). Belova, N.I., [1973,rus] 50-425
- Energy—water—mass balance and hydrological discharge. Kang, E.S., [1994,eng] 50-5576
- Eruption-triggered flood from a glacier-clad volcano in Columbia. Thourret, J.C., et al. [1995,eng] 50-4830
- Evolution conditions of recent glacier in Mount Xixia Bangma region. Xie, Z.C., et al. [1982,chi] 50-6596
- Factors controlling suspended sediment transport in Himalayan glacier meltwaters. Hasnain, S.I., [1996,eng] 50-5688
- Firm boundary as a high altitude ridge of the belt flow in mountain basins. Shcheglova, O.P., [1973,rus] 50-434
- Floods resulting from glacial lake outbursts, Yrqiung River basin, Xinjiang, China. Li, J., et al. [1994,eng] 50-1535
- Fluctuations of local glaciers at the termination of the Pleistocene: 18-8 ka BP. Clapperton, C.M., [1995,eng] 50-500
- Glacier fluctuations in the Mongun-Taiga Mountains of Tuva. Xie, Z.C., et al. [1995,chi] 50-5617
- Glacier properties on Mt. Qogir, Karakorum. Qin, D.H., et al. [1994,eng] 50-1538
- Glacier resources and distributive characteristics in the Central Asia Tianshan Mountains. Liu, C.H., [1995,chi] 50-5630
- Glacier resources in the Karakorum-Kunlun Mts. and their utilization. Su, Z., [1992,chi] 50-1489
- Glaciers and climate of the mountains of the former USSR during the Neoglacial. Serebrianniy, L.R., et al. [1996,eng] 50-6552
- Glaciers and lakes in the Tianshan Mountains as indicators of climatic change. Hu, R.J., et al. [1994,eng] 50-3998
- Glaciers of the Swiss Alps 1975/76 and 1976/77. Kasser, P., et al. [1983,ger] 50-3845
- Glaciers of the Swiss Alps 1977/78 and 1978/79. Kasser, P., et al. [1986,ger] 50-3846
- Glaciers, snow and ice—dictionary of glaciology, snow and avalanche research in Switzerland. Ziehr, W., ed. [1993,ger] 50-3385
- Glaciological research in Hidden Valley, Mukut Himal in 1994. Fujii, Y., et al. [1996,eng] 50-5510
- Glaciological studies in the high central Andes using digital processing of satellite images. Llorens, R.E., et al. [1995,eng] 50-3339
- Helicopter-borne alpine glacier surveys using short pulse radar. Arcone, S.A., et al. [1992,eng] 50-55
- Holocene glacier variations in central Asia. Savoskul, O.S., et al. [1996,eng] 50-4372
- Hydrological bibliography of Switzerland for 1992. Sevruk, B., et al. [1992,ger] 50-5028
- Ice pyramids and other ablation forms on Mount Xixia Bangma. Shi, Y.F., et al. [1982,chi] 50-6600
- Icy indicators of global warming. Denniston, D., [1993,eng] 50-3344
- Impurities in surface meltwater from a Tian Shan glacier. Goto-Azuma, K., et al. [1995,eng] 50-613
- Karakorum ice cover variations during the last glaciation. Kuhle, M., [1994,eng] 50-1533
- Late Pleistocene equilibrium-line reconstructions in the northern Peruvian Andes. Rodbell, D.T., [1992,eng] 50-2549
- Lichenometric dating of alpine Little Ice Age moraines. Winkler, S., et al. [1995,ger] 50-3396
- Major, minor, and trace element chemistry of surface waters in the Everest region of Nepal. Reynolds, B., et al. [1995,eng] 50-2434
- Mass balance of Kangwura (flat-top) Glacier on the north side of Mt. Xixiabangma, China. Liu, S.Y., et al. [1996,eng] 50-5514
- Mass balance on the Dongkemadi and Meikuang glaciers in 1992/1993. Pu, J.C., et al. [1995,chi] 50-5621
- Mineral dust record in a high altitude alpine glacier (Colle Gniffetti, Swiss Alps). Wagenbach, D., et al. [1989,eng] 50-5411
- Mountainous meteorology, climatology and aerology of the lower layers of troposphere. Panenka, I., ed. [1991,eng] 50-3518
- Neoglaciation and vegetation change in British Columbia. Clague, J.J., et al. [1996,eng] 50-4332
- Organization and results of aerological observations in the Aktru mountain glacier basin. Slutskii, V.I., [1973,rus] 50-424
- Paleoclimate of the Taklimakan Desert from glacier ice cores. Nakawo, M., [1991,jpn] 50-1424
- Past and present glacial landforms of the central Qilian Shan. Lehmkuhl, F., [1995,ger] 50-6077
- Permafrost and glaciers of Upper Engadin, Switzerland. Hölzle, M., [1994,ger] 50-2771
- Pleistocene geomorphology of Qinghai Lake, China. Nakao, K., et al. [1995,eng] 50-6717
- Pleistocene glaciation of the German uplands as reflected in recent research. Rother, K., [1995,ger] 50-744
- Pleistocene mountain glacier fluctuation in Chile. Andersen, B.G., et al. [1995,eng] 50-516
- Preliminary hydrological results from Sarennes glacier basin, French Alps. Barbet, D., et al. [1993,eng] 50-5690
- Present glaciation in the mountains of Central Asia. Konov-alova, G.I., [1972,rus] 50-556
- Problematic ice sheets. Rutter, N.W., [1995,eng] 50-498
- Quaternary glaciation in the Karakoram and Himalayas. Derbyshire, E., [1996,eng] 50-5097
- Quiescent-phase evolution of a surge-type glacier: Black Rapids Glacier, Alaska. U.S.A. Heinrichs, T.A., et al. [1996,eng] 50-4896
- Recent glacier fluctuations in inland Asia. Ageta, Y., [1995,jpn] 50-998
- Recent glacier fluctuations in the Himalaya and Karakorum. Yamada, T., et al. [1995,jpn] 50-1174
- Recent glacier variations in the Patagonia icefield. Aniya, M., et al. [1996,jpn] 50-3505
- Report on the Mount Xixia Bangma region scientific expedition, 1964. [1982,chi] 50-6593
- Representative glacier basins of the Bol'shaya Khadata River in 1969/70. Gus'kov, A.S., [1972,rus] 50-551
- Research work on the Kolka Glacier and other glaciers in Northern Ossetia in 1971. Rototav, K.P., et al. [1972,rus] 50-549
- Rhythmic nature of the Pleistocene. Maksimov, E.V., [1972,rus] 50-542
- Runoff modeling of a debris-covered glacier in Nepal. Kana, B., et al. [1996,eng] 50-5509
- Runoff of suspended sediments in the Dzhanqat Glacier basin in summer 1970. Diugorov, M.B., et al. [1972,rus] 50-554
- Sedimentary and hydrologic processes within modern terrestrial valley glaciers. Lawson, D.E., [1995,eng] 50-3591
- Short pulse radar soundings from glaciers of Peru and China. Thompson, L.G., [1992,eng] 50-67
- Simulation of runoff processes of a continental mountain glacier in the Tian Shan, China. Kang, E.S., et al. [1995,eng] 50-2439
- Snow cover and ice formation on the northern slope of Mount Xixia Bangma. Xie, Z.C., [1982,chi] 50-6597
- Stria distribution and subglacial processes in the Tianshan Mountains. Cui, Z.J., et al. [1995,eng] 50-4520
- Synoptic climatology of ablation on a New Zealand glacier. Hay, J.E., et al. [1988,eng] 50-2448
- Temperature conditions of the glaciers on the northern slope of Mount Xixia Bangma. Huang, M.H., [1982,chi] 50-6598
- Thickness and ablation measurements of Fremont Glacier, Wyoming. Naftz, D.L., et al. [1993,eng] 50-4796
- Thickness of Valfurva glaciers measured by vertical electrical probing. Guglielmin, M., et al. [1995,ita] 50-2601
- Topographic mapping of Aletsch Glacier. Finsterwalder, R., [1961,ger] 50-5740
- Towards a hydrological model for computerized ice-sheet simulations. Alley, R.B., [1996,eng] 50-6092
- Tracer study of glacial drainage variations in Switzerland. Niennow, P., et al. [1996,eng] 50-5580
- Use of sulfur-35 and tritium to study runoff from an alpine glacier, Wind River Range, Wyoming. Michel, R.L., et al. [1995,eng] 50-2437
- Veneto's glaciers. Zanon, G., [1990,ita] 50-861
- Vertical motion and ice thickness variation in western North America. Trupin, A.S., et al. [1996,eng] 50-3068
- Workshop on the study of ice, water and heat balance. Golubev, G.N., et al. [1972,rus] 50-519
- World of snow and ice. Kotliakov, V.M., [1994,rus] 50-1420
- Mountain soils**
- Advanced classification system for Xinjiang soils. Li, Z.X., [1991,chi] 50-5112
- Characterization of eastern U.S. spruce-fir soils. Fernandez, I.J., [1992,eng] 50-4051
- Dating of soil development on Sierra Nevada moraines. Bach, A.J., et al. [1996,eng] 50-4630
- Decomposition of soil surface lichens in mountain tundra and taiga. Parinkina, O.M., et al. [1995,eng] 50-3875
- Ecological significance of German mountain periglacial deposits. Fröhlich, M., [1990,ger] 50-4565
- Effect of disturbance on forest soil microbiology in the Himalaya. Joshi, S.R., et al. [1994,eng] 50-5433
- Gelifluction in the alpine periglacial environment of the Tianshan Mountains, China. Liu, G.N., et al. [1996,eng] 50-6704
- Genesis of mountain-meadow and mountain-meadow-steppe chernozem-like soils. Evdokimova, T.I., et al. [1995,rus] 50-3972
- Genetic and ecological significance of alpine debris-mulch soils. Liu, C.D., [1992,chi] 50-1493
- Geographical patterns in the biological productivity of soil-and-vegetation associations. Bazilevich, N.I., [1995,eng] 50-3872
- Holocene mass movement on Scottish mountains. Ballantyne, C.K., [1993,eng] 50-831
- Holocene solifluction at Okstundan, northern Norway: a reassessment. Worsley, P., [1993,eng] 50-829
- Italian research on solifluction in the Alps. Meneghel, M., [1993,eng] 50-827
- Ladakh: an update on natural resources. Dhar, U., et al. [1994,eng] 50-5423
- Landscape damage by skiing at the Schauinsland in the Black Forest, Germany. Ries, J.B., [1996,eng] 50-4234
- Monitoring soil condition in the northern Tibetan Plateau using SSM/I data. Chang, A.T.C., et al. [1996,eng] 50-6692
- Mountain meadow soils of the western Kunlun Mountains. Zhang, L.D., et al. [1991,chi] 50-5114
- Mountain meadow soils of Xizang. Zhang, B., [1991,chi] 50-5115
- Mountain permafrost and slope instability in the Italian Alps: the Val Pola landslide. Dramis, F., et al. [1995,eng] 50-669
- Nivation in the High Tatras, Poland. Rączkowska, Z., [1995,eng] 50-4193
- Paleoclimatic implications of Norwegian postglacial avalanches. Blikra, L.H., et al. [1993,eng] 50-835
- Pedogenic processes and evolution of the soils on moraines in alpine periglacial environments. Liu, G.N., et al. [1995,chi] 50-5631
- Periglacial overlaying strata in the Bavarian forest. Völkel, J., [1993,eng] 50-1679
- Permafrost, gelifluction and fluvial sediment transfer in the Austrian Alps. Veit, H., et al. [1993,eng] 50-1676
- Resource ecology for soil conservation in the cold deserts of the Himalaya. Gupta, R.K., [1994,eng] 50-5426
- Selenium in the saline podsol and desert soils of the northern foothills of Tian Shan. Wang, Z.Q., [1991,chi] 50-5131
- Slope processes and climate in the Abisko Mountains, northern Sweden. Rapp, A., et al. [1993,eng] 50-836
- Soil-mediated effects of atmospheric deposition on eastern U.S. spruce-fir forests. Johnson, D.W., et al. [1992,eng] 50-4055
- Soils of Xizang (Tibet). Gao, Y.X., et al. [1985,chi] 50-2297
- Solifluction and related slope processes in the mountains of central Asia (Mongolia). Pekala, K., et al. [1993,eng] 50-832
- Solifluction in the Swedish mountains. Ulfstedt, A.C., [1993,eng] 50-840
- Solifluction in the Swiss Alps and Bolivia. Graf, K., [1993,eng] 50-838
- Some contributions to the study of landforms and geomorphic processes. Barsch, D., ed. [1993,eng] 50-1671
- Stratigraphy of slope deposits and soils in the northeastern Great Basin and vicinity. Kleber, A., [1993,eng] 50-1681
- Takyr soils and cold desert gyp soils in the western Kunlun Mountains. Gu, G.A., et al. [1992,chi] 50-1494
- Vegetation and ecology of tropical mires in the high Andes of northern Chile. Ruthsatz, B., [1995,ger] 50-4530
- Mountain tundra**
- See (also): Alpine tundra
- Mountains**
- Advances in Qinghai-Xizang Plateau meteorology. Zhang, J.J., et al. [1988,chi] 50-2179
- Alpine lichens in SW Tasmania. Kantvilas, G., [1995,eng] 50-3777
- Approaches to the establishment of future climate scenarios for the alpine region. Wanner, H., et al. [1995,eng] 50-1011
- Case studies of geoprocesses and environmental change in mountains of northern Sweden. Rapp, A., [1995,eng] 50-4187
- Characteristics of winters in a high mountain region climate in a period of new climatic norms. Kveták, Š., et al. [1991,rus] 50-3521
- Climate of the Qinghai-Xizang Plateau. Dai, J.X., et al. [1990,chi] 50-2173
- Climate, snow cover, glaciers, and runoff in the Tien Shan, central Asia. Aizen, V.B., et al. [1995,eng] 50-2538
- Comparison of arctic, antarctic, and Himalayan ice. Padhak, R.C., [1989,eng] 50-3401
- Compositional variation of laurite in an alpine ultramafic complex in the Polar Urals. Anikina, E.V., et al. [1995,rus] 50-4108
- DEM corrected ERS-1 SAR data for snow monitoring. Guneriusson, T., et al. [1996,eng] 50-3149
- Dry tundra succession in Central Chukotka. Kucherov, I.B., [1995,eng] 50-1373
- Evidence of paleoclimatic snow melt in lacustrine mountain deposits. Norris, R.D., et al. [1996,eng] 50-5082
- Habitats and forest types in the mountains of southeastern Xizang. Xu, F.X., [1992,chi] 50-1484
- Importance of the correction of precipitation measurements on the Tibetan Plateau. Ueno, K., et al. [1996,eng] 50-5775
- Interannual climate variability and snowpack in the western United States. Cayan, D.R., [1996,eng] 50-5529
- Introduction to Fennoscandian mountains. Holten, J.I., [1995,eng] 50-1004
- Introduction to the Alps. Aeschmann, D., et al. [1995,eng] 50-1010
- Limestone karst morphology in the Himalayas of Nepal and Tibet. Waltham, A.C., [1996,eng] 50-4875
- Materials for a flora of the leafy mosses of the European part of the Northern Urals. Zhelezova, G.V., et al. [1995,eng] 50-3177
- New data on current and ancient glaciation in the Suntar-Khayata Mountains. Vinogradov, O.N., et al. [1972,rus] 50-536
- Origin and evolution of the mountain flora in Middle Asia and neighbouring mountain regions. Agakhanian, O.E., et al. [1995,eng] 50-3893
- Physical environment, its utilization and conservation of the Karakoram and Kunlun Mts. region. Zheng, D., [1992,chi] 50-1483
- Potential ecological impacts of climate change in the Alps and Fennoscandian mountains. Guisan, A., ed. et al. [1995,eng] 50-1002
- Proceedings. [1994,eng] 50-1531

Mud

- Purification kit for potabilizing meltwater. Gopal, R., et al. [1991,eng] 50-3402
- Record of Warta processes in the base of the mountain Ner River valley. Turkowska, K., [1993.pol] 50-3667
- Reflection of weather conditions in the chemistry of horizontal fog/cloud precipitation. Škvarčina, J., et al. [1991,eng] 50-3522
- Snow cover in the mountainous regions. Yoshida, Y., [1988,jpn] 50-2048
- Snowmelt and slush torrents in Swedish Lapland. Gude, M., et al. [1995,eng] 50-4188
- Study on some kinds of weather systems over and around the Qinghai-Xizang (Tibet) Plateau. Luo, S.W., et al. [1992,chi] 50-2178
- Topographical influence on Himalayan snow cover distribution. Singh, P., et al. [1995,eng] 50-4012
- Typification of USSR surface territory for the aerospace monitoring system. Apostolov, I.U.S., et al. [1992,rus] 50-3405
- Understanding the impact of climate change on mountain ecosystems: an overview. Guisan, A., et al. [1995,eng] 50-1003
- Vertical distribution of lichens on the mountain, Aucellabjerg, northeastern Greenland. Hansen, E.S., [1996,eng] 50-4344
- Volcanic eruption at a New Zealand ski resort prompts reevaluation of hazards. Ruapehu Surveillance Group, [1996,eng] 50-5501
- Mud**
- Air temperature effects on cold weather drilling mud dewatering. Wojtanowicz, A.K., et al. [1991,eng] 50-1708
- Alternatives for closure of solid oily waste sites on the North Slope of Alaska. Kellers, B.L., et al. [1991,eng] 50-1709
- Aluminum anodes used in cold saline environments. Schrieber, C.F., [1996,eng] 50-5955
- Bottom sediment chemical composition of the Kara Sea and estuaries. Gurvich, E.G., et al. [1995,eng] 50-3545
- Development of an Alaskan North Slope soils database for drill cuttings reclamation. Schumacher, J.P., et al. [1991,eng] 50-1722
- Drilling waste disposal in the Arctic using below-grade freeze-back. Maund, T.E., et al. [1991,eng] 50-1697
- Salted drilling mud helps prevent casing collapse in permafrost. Kutsov, I.M., [1995,eng] 50-142
- Mud circulation**
- See [also]: Drilling fluids
- Mudflows**
- Basic study of pyroclastic flow on a snow-covered slope. Miura, A., et al. [1994,jpn] 50-2836
- Basic study on volcanic debris flows over snow slopes. Miura, A., et al. [1995,jpn] 50-6736
- Case studies of geoprocesses and environmental change in mountains of northern Sweden. Rapp, A., [1995,eng] 50-4187
- Debris flows in the eastern Qinghai-Xizang Plateau. Tang, B.X., et al. [1994,eng] 50-4785
- Eruption-triggered flood from a glacier-clad volcano in Columbia. Thoutet, J.C., et al. [1995,eng] 50-4830
- Guidebook on debris flow control. Zhou, B.F., ed. et al. [1991,chi] 50-5008
- Mudflow-retaining structure. Bainatov, Zh.B., et al. [1992,rus] 50-1936
- Recent debris flow disaster and its prevention in east Qinghai-Xizang Plateau. Tang, B.X., et al. [1992,chi] 50-1495
- Recent fluvial sediment budgets in glacial and periglacial environments, NW Spitsbergen. Barsch, D., et al. [1994,eng] 50-1584
- Scientific Seminar of the Laboratory on Avalanches and Mudflows of Moscow State University. Bozhinski, A.N., [1972,rus] 50-550
- Sediment transport and discharge in a high arctic catchment (Liefdefjorden, NW Spitsbergen). Barsch, D., et al. [1994,eng] 50-1545
- Slope erosion processes in the Alps. Becht, M., [1995,eng] 50-4829
- Slush stream phenomena—process and geomorphic impact. Barsch, D., et al. [1993,eng] 50-1674
- Snowmelt-induced earth and rock flows. Watanabe, N., et al. [1992,jpn] 50-3136
- Terrain as a controlling factor for slush streams in Spitsbergen. Scherer, D., et al. [1994,eng] 50-1588
- Volcanic eruption at a New Zealand ski resort prompts reevaluation of hazards. Ruapehu Surveillance Group, [1996,eng] 50-5501
- Municipal engineering**
- Alternative road construction for stormwater management in cold climates. Stenmark, C., [1995,eng] 50-2532
- Cold climate concerns. Part 2. Infrastructure planning and maintenance. Ryan, W.L., [1995,eng] 50-1077
- Living on ice: problems of urban development in Canada's north. French, H.M., [1994,eng] 50-6099
- Odor removal processes for ice-covered river runoff. Hudey, S.E., et al. [1995,eng] 50-1524
- Possibilities and problems in the realization of snow-storage air conditioning systems. Umemura, T., [1988,jpn] 50-2278
- Potential for greater use of wetlands for waste treatment in northern Canada. Doku, I.A., et al. [1995,eng] 50-361
- Protecting water meters from freezing. Kotry, J., [1992,eng] 50-3559
- Snow and ice control. Minnesota. Office of the Legislative Auditor, [1995,eng] 50-3596
- Snow in the cities—a history of America's urban response. McKelvey, B., [1995,eng] 50-1123
- See [also]: Urban planning

- Muskeg**
- Classification of wetland and muskeg terrain. Pietroniro, A., et al. [1996,eng] 50-5541
- Screw anchors economically control pipeline buoyancy in muskeg. Robertson, R., et al. [1995,eng] 50-4003
- Naleds**
- Cryogenic phenomena in the lithosphere. Gavrilov, A.V., et al. [1996,rus] 50-6352
- Device for protecting a bridge from naleds. Dement'ev, V.A., et al. [1992,rus] 50-1923
- Effect of seasonal freezing on the formation of naleds in northern Transbaikalia. Belikov, A.E., [1993,rus] 50-115
- Naleds in the Suntar-Khayata Mountains. Koreisha, M.M., [1972,rus] 50-552
- On naled sheet processes which generate moraine ridges. Klysz, P., [1993,eng] 50-2206
- Technogenic naled formation around the city of Anadyr'. Kotov, A.N., [1996,rus] 50-6854
- Nansen Basin**
- On the summer distribution of mesozooplankton in the Nansen Basin, Arctic Ocean. Mumm, N., [1991,ger] 50-3399
- Natural gas**
- Adsorption of methane on natural snow. Chaix, L., et al. [1996,eng] 50-5963
- Airborne measurements of atmospheric methane over oil fields in western Siberia. Tohjima, Y., et al. [1996,eng] 50-6509
- Aircraft measurements of the stable carbon isotopic ratio of atmospheric methane over Siberia. Sugawara, S., et al. [1996,eng] 50-6051
- Arctic Flux Study: a regional view of trace gas release. Weller, G., et al. [1995,eng] 50-3809
- Arctic Pilot Project integrated route analysis. Chapter 2. Physical aspects of the route areas. [1981,eng] 50-3558
- Barents Sea biomass reaction to gas condensate pollution. Gorbacheva, E.A., et al. [1996,eng] 50-6581
- Biogas as an alternative energy savings. Elokkin, V.R., [1992,rus] 50-705
- Blowout in Beaufort Sea gas well. [1989,eng] 50-5647
- Challenges for the development of hydrocarbon fields in the Barents Sea. Gudmestad, O.T., et al. [1995,eng] 50-209
- Characteristics of the gas content of permafrost strata in the Bovanenka gas condensate field. Chuvilin, E.M., et al. [1996,rus] 50-6386
- Controls on CH₄ flux from an Alaskan boreal wetland. Moosavi, S.C., et al. [1996,eng] 50-6053
- Cretaceous/Tertiary marine stratigraphy and petroleum potential, Tarim Basin. Tang, T.F., et al. [1989,chi] 50-1847
- Ecological controls on peatland methane emissions in discontinuous permafrost. Bubier, J.L., et al. [1995,eng] 50-2803
- Ecological-hygienic aspects of the development of the Bovanenka gas condensate field. Kvashina, S.I., [1994,rus] 50-301
- Effect of cryospheric cooling on the distribution of oil and gas in Siberian deposits. Bol'shakov, I.U.A., et al. [1989,rus] 50-2259
- Effects of sea ice cover on atmospheric methane over the Sea of Okhotsk. Lammers, S., et al. [1995,eng] 50-1147
- Emissions of methane and nitrogen oxides from peatland ecosystems. Martikainen, P.J., et al. [1994,eng] 50-3220
- Exploration and development of oil and gas field on the shelf of Sakhalin. Bogdanichikov, S.M., et al. [1995,eng] 50-168
- Exploration for hydrocarbon deposits and engineering preparation of oil and gas provinces. Akhmetshin, A.A., et al. [1996,rus] 50-6371
- Geochemistry of organic matter in oil- and gas-bearing sediments in Western Yakutia. Bodunov, E.I., ed. [1984,rus] 50-5006
- High-pressure Brillouin scattering and elastic properties of liquid and solid methane. Shimizu, H., et al. [1996,eng] 50-5682
- Huge Barents Sea gas field holds promise. [1991,eng] 50-4377
- Kinetics of gas hydrate formation and kinetic inhibition in offshore oil and gas operations. Englezos, P., [1995,eng] 50-171
- Methane flux along a Siberian tundra transect. Christensen, T.R., et al. [1995,eng] 50-1334
- Methane in frozen rocks and some aspects of forecasting its emission. Rivkin, F.M., [1996,rus] 50-6383
- Methane plumes near Bear Island, Barents Sea. Lammers, S., et al. [1995,eng] 50-748
- Methanogenesis at low temperatures by microflora of tundra wetland soil. Kotsiurbenko, O.R., et al. [1996,eng] 50-5156
- Method for underground gasification of coal. Shteil, V.I., [1992,rus] 50-1943
- Norwegian petroleum resources with focus on challenges and opportunities in the Barents Sea. Aamodt, F.R., [1995,eng] 50-174
- Oceanic methane hydrates: a "frontier" gas resource. Max, M.D., et al. [1996,eng] 50-4799
- Oil and gas fields of Qinghai and Xizang. Gu, S.S., ed. [1990,chi] 50-2177
- Petroleum exploration opportunities on the U.S.-Russia Chukotka Sea continental shelf. Warren, T., et al. [1995,eng] 50-210
- Petroleum resources of the Mackenzie Delta and Beaufort Sea. Dixon, J., et al. [1994,fre] 50-3319
- Plausible hydrological scenario for the Bølling-Allerød atmospheric methane increase. Kalin, R.M., et al. [1996,eng] 50-4376
- Principal mineral resources and their distribution on the Qinghai-Xizang Plateau. Xu, Z.Y., et al. [1991,chi] 50-2295

- Project of gas liquefaction at the Yamal Peninsula: the problem and solution. Grisenko, A.I., et al. [1996,eng] 50-4488
- Raw oil and gas bedrock potential of organic matter sediments. Gretskaia, E.V., [1990,rus] 50-4942
- Review of the geochemistry of methane in natural gas hydrate. Kvenvolden, K.A., [1995,eng] 50-6229
- Seismic prospecting for oil and gas in regions with cryolithozone development. Bevenko, I.U.P., [1989,rus] 50-2260
- Sensor mapping of arctic wetland distribution. Morrissey, L.A., et al. [1996,eng] 50-4764
- Study of the composition of hydrates in natural gas with highly mineralized water. Larionov, V.R., et al. [1992,rus] 50-814
- Submarine cryolithozone of Russian Arctic off-shore: problems of hydrocarbon recovery. Kul'pin, L.G., et al. [1995,eng] 50-2961
- Thermodynamic stability of hydrates for ethane, ethylene, and carbon dioxide. Kvamme, B., et al. [1996,eng] 50-5019
- Transport of natural gas as frozen hydrate. Gudmundsson, J.S., et al. [1995,eng] 50-170
- Transportation of Alaska North Slope natural gas to market. Lannom, D.A., et al. [1996,eng] 50-6126
- Winter methane dynamics in a temperate peatland. Mellich, R.A., et al. [1996,eng] 50-6052
- Natural resources**
- 1995 annual report on Alaska's mineral resources. Schneider, J.L., ed. [1995,eng] 50-5664
- Antarctic Treaty's 30 years of operation. Machowski, J., [1989,pol] 50-2876
- Arctic and Europe. Gerhardsen, T.S., [1996,eng] 50-4423
- Arctic and Offshore Research Information System. Shoemaker, H.D., et al. [1991,eng] 50-1753
- Assessing effects on cryogenic terrain. Zotova, L.I., et al. [1996,rus] 50-6846
- Assessment on the diversity and status of the alpine plants of Indian Himalaya. Samant, S.S., [1994,eng] 50-5424
- Economic and game-theoretical analysis of CO₂ reduction agreements. Tahvonen, O., [1994,eng] 50-3235
- Economic geography of the Inner Mongolia Autonomous Region. Gang, G.E., ed. et al. [1992,chi] 50-2171
- Effect of cryospheric cooling on the distribution of oil and gas in Siberian deposits. Bol'shakov, I.U.A., et al. [1989,rus] 50-2259
- Exploitation of mineral resources in Antarctica. Machowski, J., [1989,pol] 50-2932
- Exploration and development of oil and gas field on the shelf of Sakhalin. Bogdanichikov, S.M., et al. [1995,eng] 50-168
- Forest resources in Xinjiang. Xinjiang Resources Development Comprehensive Survey Team of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang ziyuan kaifa zonghe kaochadi), [1989,chi] 50-5823
- Forest resources of Qinghai. Sun, X.R., ed. et al. [1988,chi] 50-5822
- Future of oil and gas in northern Alaska. Bird, K.J., et al. [1995,eng] 50-5642
- Geochemistry of organic matter in oil- and gas-bearing sediments in Western Yakutia. Bodunov, E.I., ed. [1984,rus] 50-5006
- Geology of the Red Mountain gold deposit in British Columbia. Greig, C.J., et al. [1994,eng] 50-84
- Giving full play to the mineral resources, to promote the economic development in Xizang. Cao, Y.G., et al. [1992,chi] 50-1485
- Industrial use of natural resources of northeastern USSR and problems of protecting hydrobiotics. Kuklin, A.I., [1991,rus] 50-1312
- Ladakh: an update on natural resources. Dhar, U., et al. [1994,eng] 50-5423
- Natural resources of Inner Mongolia. Eer, D., ed. [1987,chi] 50-2290
- Natural resources of the northern polar regions: its use and protection. Demek, J., [1993,eng] 50-2199
- New regional mapping project in Vernon map area, British Columbia. Thompson, R.I., et al. [1994,eng] 50-85
- Northern Sea Route and the regional development in the North. Høifødt, S.I., [1996,eng] 50-4441
- Norway enters exploration groups with improved licensing terms. [1995,eng] 50-2537
- Norwegian petroleum resources with focus on challenges and opportunities in the Barents Sea. Aamodt, F.R., [1995,eng] 50-174
- Oceanic methane hydrates: a "frontier" gas resource. Max, M.D., et al. [1996,eng] 50-4799
- Oil and gas fields of Qinghai and Xizang. Gu, S.S., ed. [1990,chi] 50-2177
- On strategy of exploiting resources and their performance in Qinghai Province. Chen, Z.J., [1992,chi] 50-1478
- Paleozoic petroleum source rocks in Saskatchewan and Manitoba. Osadetz, K.G., et al. [1995,eng] 50-232
- Petroleum resources of the Mackenzie Delta and Beaufort Sea. Dixon, J., et al. [1994,fre] 50-3319
- Polar vision or tunnel vision: The making of Canadian Arctic waters policy. Huebert, R., [1995,eng] 50-4503
- Potentials for utilization of hydroelectric resources in Greenland. Taagholt, J., [1995,eng] 50-2963
- Preliminary stratigraphy from Lansing map area, Yukon Territory. Roots, C., et al. [1994,eng] 50-80
- Principal mineral resources and their distribution on the Qinghai-Xizang Plateau. Xu, Z.Y., et al. [1991,chi] 50-2295
- Problems in the development of the Arctic as a complex regional system. Arikainen, A.I., [1990,rus] 50-1666

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Northern Sea Route

- Problems of metallogeny of the Arctic. Dodin, D.A., et al. [1994,eng] 50-1207
- Proceedings of the first symposium on the Qinghai-Xizang Plateau. China Society of Qinghai-Xizang Plateau Research. Symposium, 1st, Mar. 1990, [1992,chi] 50-1475
- Proceedings. Management of the Boreal Forest, Anchorage, AK, Dec. 3-4, 1987. [1988,eng] 50-68
- Raw oil and gas bedrock potential of organic matter sediments. Gretskaia, E.V., [1990,rus] 50-4942
- Research on the natural resources and environment of the Ordos Plateau in Inner Mongolia. Li, B., ed, et al. [1990,chi] 50-2011
- Saline-lake resources on the Qinghai-Xizang Plateau and their developed prospect. Zheng, M.P., [1992,chi] 50-1486
- Seismic prospecting for oil and gas in regions with cryolithozone development. Bevezko, I.U.P., [1989,rus] 50-2260
- Stratigraphic and structural setting of mineral deposits in British Columbia. Davies, A.G.S., et al. [1994,eng] 50-83
- Sulfide occurrences in northwestern British Columbia. Gunning, M.H., et al. [1994,eng] 50-82
- Sustenance of central Himalayan vegetational wealth at the brink of depletion. Negi, K.S., et al. [1994,eng] 50-5425
- Tectonic framework of the Teslin region, southern Yukon Territory. Gorday, S.P., et al. [1994,eng] 50-81
- United States arctic research plan: Biennial revision: 1996-2000. Meyers, C.E., et al. [1995,eng] 50-3243
- Utilization and protection of natural resources in the Hengduan Mountains region. Li, M.S., [1992,chi] 50-1482
- Ways of creating equipment and technology for the mining of mineral deposits in the North. Slepsov, A.E., [1992,rus] 50-794
- Wind energy research in NEMO—research program. Peltola, E., [1992,eng] 50-3627
- Navigation**
- Automation opportunities at Corps of Engineers locks and dams. Carey, K.L., [1995,eng] 50-1518
- End of season report: Operation Deep Freeze 95/96. U.S. Naval Support Force Antarctica, [1996,eng] 50-5807
- Formation of the air temperature field in the eastern Arctic and its effect on navigation. Dmitriev, A.A., [1990,rus] 50-334
- Navigation and the pollution of the coastal zone of Arctic seas. Slevich, S.B., et al. [1991,rus] 50-1319
- Project IV.1.2: "NSR-pilot" guide to navigation along the NSR. Mikhailichenko, V., et al. [1996,eng] 50-4457
- Technological-ecological problems in navigation. Stepanov, A.L., [1991,rus] 50-1318
- Using "Navstar" to determine ship maneuvering elements. Dudnik, S.A., [1993,rus] 50-17
- See [also]: Ice navigation; Subglacial navigation
- Needle ice**
- See [also]: Ice needles
- Nepal**
- Establishment of the GEN Automatic Weather Station (AWS) in Khumbu region, Nepal Himalayas. Ueno, K., et al. [1996,eng] 50-5511
- Glaciological research in Hidden Valley, Mukut Himal in 1994. Fujii, Y., et al. [1996,eng] 50-5510
- Major, minor, and trace element chemistry of surface waters in the Everest region of Nepal. Reynolds, B., et al. [1995,eng] 50-2434
- Report of avalanche accident at Pangka in 1995, Khumbu region, Nepal. Yamada, T., et al. [1996,jpn] 50-4928
- Runoff modeling of a debris-covered glacier in Nepal. Rana, B., et al. [1996,eng] 50-5509
- Vegetation patterns in the alpine zone of the Himalaya in eastern Nepal. Kikuchi, T., [1994,eng] 50-5419
- Nepal—Bhutan**
- 1994 Lugge Tsho glacial lake outburst flood, Bhutan Himalaya. Watanabe, T., et al. [1996,eng] 50-4236
- Nepal—Himalaya Mountains**
- Limestone karst morphology in the Himalayas of Nepal and Tibet. Waltham, A.C., [1996,eng] 50-4875
- On the connexion of vegetation dynamics with climatic changes in High Asia. Miehe, G., [1996,eng] 50-5089
- Nepal—Imja Glacier**
- Danger of lake burst flooding from a Himalayan glacial lake. Watanabe, T., et al. [1995,eng] 50-3338
- Nepal—Kathmandu Valley**
- Paleoclimatological import of Himalayan tree palynological samples. Nakagawa, T., et al. [1996,eng] 50-4745
- Netherlands**
- Icenet: hydro power for Europe. De Jong, D.J., [1995,eng] 50-2969
- Satellite mapping of algal blooms and sea ice in the North Sea and IJsselmeer. Roozkrans, H., [1994,eng] 50-1517
- Neural networks**
- Warning system for snow on power lines using neural networks. Ohta, H., et al. [1996,eng] 50-3355
- Neutron activation analysis**
- Atmospheric bromine in the Arctic. Berg, W.W., et al. [1983,eng] 50-3650
- No iridium anomaly after the 1908 Tunguska impact: evidence from a Greenland ice core. Rasmussen, K.L., et al. [1995,eng] 50-2741
- Neutron diffraction**
- Comments on the crystal structure of solid trichlorofluoromethane. Prado, P., et al. [1995,eng] 50-3144
- Effects of high voltage on the structure of ice. Farzaneh, M., et al. [1996,eng] 50-5387
- Freezing and melting of mercury in porous glass. Kumzerov, I.U.A., et al. [1995,eng] 50-1132
- Structural characteristics of hydrogen-bonded networks in water and ice systems. Dore, J.C., et al. [1995,eng] 50-2697
- Neutron irradiation**
- Greenland '90: a first step toward using the polar ice cap as a Cherenkov detector. Barwick, S.W., et al. [1992,eng] 50-4263
- Neutron probes**
- AMANDA: Antarctic Muon And Neutrino Detector Array. Barwick, S.W., et al. [1994,eng] 50-4694
- Neutron scattering**
- Crystal structure of dichlorodifluoromethane. Pridmore, R.W., et al. [1996,eng] 50-4695
- Disorder in ice Ih. Nield, V.M., et al. [1995,eng] 50-1134
- Freezable water in portland cement paste. Gress, D.L., et al. [1995,eng] 50-2631
- Liquid-glass transition in a strong glassformer. Torelli, L.M., et al. [1995,eng] 50-1225
- Molecular dynamic simulation of proton transport in supercooled water. Di Cola, D., et al. [1996,eng] 50-3715
- Neutron scattering of high pressure ice polymorphs. Li, J.C., et al. [1996,eng] 50-6344
- Quasielastic neutron scattering in glass forming viscous liquids. Petry, W., et al. [1995,eng] 50-1224
- Similarity of vibrational spectra of high-density amorphous ice and high-pressure phase ice VI. Kolesnikov, A.I., et al. [1995,eng] 50-937
- Spectroscopic measurements of ice XI. Li, J.C., et al. [1995,eng] 50-518
- Structure of ice Ih from analysis of single-crystal neutron diffuse scattering. Nield, V.M., et al. [1995,eng] 50-2696
- Structure of solid fluoromethane. Tornøe, B.H., et al. [1996,eng] 50-4696
- X-ray and neutron scattering studies of the structure of water at a hydrophobic surface. Bellissent-Funel, M.C., et al. [1996,eng] 50-5713
- New Guinea**
- Plant form and function in alpine New Guinea. Hnatiuk, R.J., [1994,eng] 50-3060
- New Zealand**
- Glacial fluctuations in New Zealand determined from snowline. Chinn, T.J.H., [1995,eng] 50-79
- New Zealand talus-derived rock glacier climatic responses. Kirkbride, M., et al. [1995,eng] 50-6561
- Synoptic climatology of ablation on a New Zealand glacier. Hay, J.E., et al. [1988,eng] 50-2448
- Volcanic eruption at a New Zealand ski resort prompts reevaluation of hazards. Ruapehu Surveillance Group, [1996,eng] 50-5501
- New Zealand—Otago**
- Response of alpine vegetation canopy to experimental wind barrier. Smith, B., et al. [1996,eng] 50-3786
- New Zealand—South Island**
- Paleomagnetic age constraints on New Zealand glacial deposits. Fitzsimons, S.J., et al. [1996,eng] 50-6576
- New Zealand—Tasman Glacier**
- Ice flow vectors on the debris-mantled Tasman Glacier, 1957-1986. Kirkbride, M., [1995,eng] 50-2717
- Nitrogen cycle**
- See [also]: Nutrient cycle
- Nivation**
- Early Pleistocene glaciation in the Qinling Mountains of China. Rost, K.T., [1992,ger] 50-1682
- Features of nivation landforms in the Changbaishan Mts. Song, C.Q., et al. [1995,chi] 50-5627
- Geomorphological altitude zones in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4775
- Meadow ecology in the polar Urals, Russia. Gorchakovskii, P.L., et al. [1996,eng] 50-5482
- Nivation in the High Tatras, Poland. Rączkowska, Z., [1995,eng] 50-4193
- Paleoenvironmental implications of modern periglacial eolian deposits. Dijkman, J.W.A., et al. [1991,eng] 50-5172
- Permafrost, gelifluction and fluvial sediment transfer in the Austrian Alps. Veit, H., et al. [1993,eng] 50-1676
- Protalus formation mechanisms in Norwegian sediments. Shakesby, R.A., et al. [1995,eng] 50-3328
- Snowpack influences on geomorphic processes in Green Lakes Valley, Colorado Front Range. Caine, N., [1995,eng] 50-1404
- System of climatic geomorphology based on landscape typing. Hövermann, J., [1990,ger] 50-1782
- Noise (sound)**
- Marine seismic system. Odegaard, J., et al. [1993,eng] 50-2336
- Method for seismic exploration in arctic regions. Barr, F.J., et al. [1995,eng] 50-3457
- Report on underwater noise. Davis, R.A., et al. [1991,eng] 50-3420
- Nomenclature**
- See [also]: Terminology
- Nomographs**
- Basis for the effectiveness of using semiconductor heat pumps for mining in the North. Slepsov, V.I., [1992,rus] 50-815
- Experimental studies on the resistance of frozen ground to maximum thermo-erosion washout. Pendin, V.V., et al. [1996,rus] 50-6407
- Formation and movement of avalanches. Moskalov, I.U.D., [1966,rus] 50-3833
- Noncohesive soils**
- Two methods for the determination of lateral stress in sand. Hatanaka, M., et al. [1995,eng] 50-1180
- Undrained shear strength for liquefaction flow failure analysis. Konrad, J.M., et al. [1995,eng] 50-1824
- North Atlantic Ocean**
- Deep water distillation. Boyle, E., [1996,eng] 50-5152
- Heinrich events and western US glaciation. Clark, P.U., et al. [1995,eng] 50-558
- North Atlantic fossils and Heinrich events. Rahman, A., [1995,eng] 50-559
- Ocean thermohaline circulations compared. Yu, E.F., et al. [1996,eng] 50-5153
- Role of the Bering Strait in controlling North Atlantic ocean circulation and climate. Shaffer, G., et al. [1994,eng] 50-3769
- Simulation of abrupt climate changes. Manabe, S., et al. [1995,eng] 50-1520
- North Pacific Ocean**
- North Pacific rapid climate variability. Kotilainen, A.T., et al. [1995,eng] 50-338
- North Pole**
- North Pole. Headland, R.K., [1996,eng] 50-4994
- North Sea**
- Glacially-fed North Sea Quaternary sedimentation. King, E.L., et al. [1996,eng] 50-4877
- NORSMAP '89-Norwegian remote sensing spectrometry for mapping and monitoring of algal blooms and pollution. Petersson, L.H., et al. [1992,eng] 50-622
- North Sea and Norwegian Sea hydrocarbon exploration. Alberi, Di Catenaja, C., et al. [1994,ita] 50-2818
- North Sea lithostratigraphy related to glacial isostasy. Ekman, S.R.R., [1995,eng] 50-6560
- North Sea paleoenvironments during the last deglaciation. Kaudsen, K.L., et al. [1996,eng] 50-6534
- Plankton blooms as evidence of Holocene climatic fluctuations. Thorsen, T.A., et al. [1995,eng] 50-2860
- Satellite mapping of algal blooms and sea ice in the North Sea and IJsselmeer. Roozkrans, H., [1994,eng] 50-1517
- Northern Sea Route**
- Analysis of outer shell wear for ice-going ships. Shemendiuk, G.P., et al. [1996,eng] 50-4467
- Arctic and Europe. Gerhardsen, T.S., [1996,eng] 50-4423
- Arctic and Japan. Fujita, Y., [1996,eng] 50-4421
- Arctic and Russia. Granberg, A.G., [1996,eng] 50-4422
- Arctic: historical outline. Ohta, Y., [1996,eng] 50-4424
- Attempt to draw a scenario of ice/propeller interaction. Tamura, K., et al. [1996,eng] 50-4475
- Can the Northern Sea Route be profitable. Schwarz, J., [1996,eng] 50-4490
- Cartography of the Northern Sea Route, 15th-19th centuries. Okhuizen, E., [1996,eng] 50-4484
- Commercial aspects of the Northern Sea Route. Ivanov, I.U.M., [1996,eng] 50-4444
- Current policy of the Russian Federation regarding development and management of the Northern Sea Route System. Arikainen, A.I., et al. [1996,eng] 50-4450
- Definition of the loading regime on offshore structures from drifting ice covers. Bekker, A.T., et al. [1996,eng] 50-4463
- Design of ice-navigating cargo vessels. Kitagawa, H., [1996,eng] 50-4470
- Determination of the ice strength for calculation of the ice load. Bekker, A.T., et al. [1996,eng] 50-4462
- Development of optimum hull forms for icebreaking cargo ships for the Northern Sea Route. Kishi, S., et al. [1996,eng] 50-4473
- Ecological safety of navigation on the Northern Sea Route. Semanov, G.N., [1996,eng] 50-4437
- Environmental aspects of the Northern Sea Route. Hansson, R., et al. [1996,eng] 50-4439
- Environmental factors: conceptual design and current status. Hansson, R., et al. [1996,eng] 50-4436
- Environmental impact assessment (EIA) in INSROP. Thomasen, J., et al. [1996,eng] 50-4438
- Environmental security and the NSR: a pan-Arctic challenge? Østreng, W., [1996,eng] 50-4451
- Evaluation of double-sided beam and girder constructions tension subject to local ice loads. Barabanov, N.V., et al. [1996,eng] 50-4465
- Experiences of three years of oil transportation in the Russian Arctic with a Western fleet. Niini, M., [1996,eng] 50-4486
- Experimental voyage through Northern Sea Route. Yamaguchi, H., [1996,eng] 50-4425
- Experimental voyage through Northern Sea Route. Yamaguchi, H., et al. [1996,jpn] 50-5874
- Flaking tests to measure large scale strength of ice. Jones, S.J., et al. [1996,eng] 50-4430
- Hydrodynamic performance of ship hull forms designed for the NSR cargo ship. Uto, S., et al. [1996,eng] 50-4474
- Ice conditions along the North-East Passage in view of ship trafficability studies. Riska, K., [1995,eng] 50-198
- Ice conditions and navigability of the NSR-vessels: present and future. Schwarz, J., [1996,eng] 50-4491
- Ice resistance of three bow forms for the NSR cargo ship. Izumiya, K., et al. [1996,eng] 50-4471
- Iceberg active and passive sonar acoustics and navigation safety along the Northern Sea Route. Gavrilov, V.P., et al. [1996,eng] 50-4483
- Icebreaker transit analysis for a voyage across the Arctic Ocean. Brigham, L.W., [1996,eng] 50-4460
- ICESTAR: a spaceborne ice and coastal environment surveillance system. Cavallieri, D.J., et al. [1996,eng] 50-4482
- Identification of ice classes and rules for ships intended to navigate in the Arctic. Karavanov, S.B., et al. [1996,eng] 50-4464

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- Influence of ice conditions on NSR transit sailing. Vefsnmo, S., et al. [1996,eng] 50-4459
- INSROP GIS—the concept and its role in INSROP. Levås, S.M., et al. [1996,eng] 50-4426
- International Petropavlovsk-Kamchatskiy Port. Semenikhin, I.A.N., et al. [1996,eng] 50-4489
- Intraseasonal changes in ice conditions and conditions for ice navigation in the 20th century. Zakharov, V., et al. [1996,eng] 50-4481
- Introduction to INSROP. Østreng, W., [1996,eng] 50-4420
- Legal conditions for navigating the Northern Sea Route. Ørebech, P., [1996,eng] 50-4452
- Legal status of the Northern Sea Route. Timchenko, L.D., [1996,eng] 50-4454
- Meteorological support for navigation along the Northern Sea Route. Kondrat'ev, K.I.A., et al. [1994,eng] 50-6488
- Northern Sea Route and the regional development in the North. Høifødt, S.I., [1996,eng] 50-4441
- Northern Sea Route reconnaissance study: a summary of ice-breaking technology. Sodhi, D.S., [1995,eng] 50-395
- Northern Sea Route: is it a viable marine insurance risk? Gold, E., [1996,eng] 50-4443
- Northern Sea Route: its development and evolving state of operations in the 1990s. Mulherin, N.D., [1996,eng] 50-4960
- Northern Sea Route: future & perspective. Northern Sea Route: future & perspective. Proceedings of INSROP Symposium, Tokyo, Oct. 1-6, 1995, [1996,eng] 50-4419
- O.YU. Schmidt's scientific ideas on the strategy of developing the Arctic. Shevelov, M.I., [1992,eng] 50-3430
- Overview of pipelines in Russian cold regions. Ivantsov, O.M., [1995,rus] 50-2520
- Perceptions and relations between Russia and its northeast Asian neighbors. Simonsen, H., [1996,eng] 50-4453
- Polar regions: a political geography. Chaturvedi, S., [1996,eng] 50-5926
- Political, legal and strategic aspects of the Northern Sea Route. Ushakov, A.P., [1996,eng] 50-4455
- Potential resistance of the Kara Sea ice cover. Gavrilov, V.P., et al. [1995,eng] 50-185
- Preliminary application of Canadian ice regime system to the Northern Sea Route. Jones, S.J., et al. [1996,eng] 50-4429
- Preliminary study of tankers for year-round transportation of crude oil from Ob Gulf. Tsoi, L.G., et al. [1996,eng] 50-4461
- Project I: natural conditions and ice navigation. Buznev, A., [1996,eng] 50-4435
- Project II: natural conditions and ice navigation. Levås, S.M., [1996,eng] 50-4434
- Project II.6.2: Environmental safety of navigation. Tsoi, L.G., et al. [1996,eng] 50-4440
- Project III.1.1: New concepts in removing ice. Ierusalimskii, A.V., [1996,eng] 50-4447
- Project III.12.1: improve information on navigating the NSR. Baskin, A.T., [1996,eng] 50-4448
- Project III.6.1: Survey of logistics models. Shchelkanov, A.G., et al. [1996,eng] 50-4445
- Project III.7.2: Potential of the NSR as a regular cargo service. Ivanov, I.U.M., et al. [1996,eng] 50-4446
- Project IV.1.1: historical and current use of the Northern Sea Route. Ivanov, I.U.M., et al. [1996,eng] 50-4456
- Project IV.1.2: "NSR-pilot" guide to navigation along the NSR. Mikhailichenko, V., et al. [1996,eng] 50-4457
- Russian Arctic straits under international law. Brubaker, D., [1996,eng] 50-4449
- Russian Arctic water under international law. Brubaker, D., [1996,eng] 50-4458
- Russian module of the INSROP information system. Grishchenko, V.D., et al. [1996,eng] 50-4427
- Salient features of the design of large arctic ships with a restricted draft. Tsoi, L.G., [1996,eng] 50-4431
- Seaborne oil and gas transportation from Northern Russia. Backlund, A., [1996,eng] 50-4487
- Series of model tests in ice of ice-going cargo ships for future traffic in the Northern Sea Route. Ishikawa, S., et al. [1996,eng] 50-4472
- Shipping on the Northern Sea Route. Barabanov, N.V., [1996,eng] 50-4485
- Significance of the NSR for regional development in arctic areas of Russia. Granberg, A.G., [1996,eng] 50-4442
- Specialized ice information for planning sea operations along the NSR. Brovin, A.I., et al. [1996,eng] 50-4428
- Standardization of corrosion wear of shell plating for ice ships operations. Kulesh, V.A., et al. [1996,eng] 50-4466
- Study of dynamic effects on icebreaking in 2-dimension: computations and components of icebreaking load. Yamaguchi, H., et al. [1996,eng] 50-4469
- Study of dynamic effects on icebreaking in 2-dimension: experiment. Usami, A., et al. [1996,eng] 50-4468
- Underwater transport system for the Arctic. Kuteinikov, A.V., et al. [1996,eng] 50-4476
- Variability of arctic sea ice along the Northern Sea Route. Ono, N., [1996,eng] 50-4477
- West Siberian oil and the northern sea route: current situation and future potential. Kriukov, V., et al. [1995,eng] 50-6104
- Norway**
- Baltic ice Lake. Brunnberg, L., [1995,eng] 50-513
- Boundary-layer ozone depletion as seen in the Norwegian arctic in spring. Solberg, S., et al. [1996,eng] 50-4152
- Cenozoic uplift of Fennoscandia inferred from a study of the mid-Norwegian margin. Stuevold, L.M., et al. [1996,eng] 50-5324
- Climatic implications of Norwegian Neoglaciation glacier maximum. Matthews, J.A., [1991,eng] 50-3306
- Concrete pavements in tunnels. Berg, J.S., et al. [1996,eng] 50-6182
- Degree-day glacier mass balance modelling. Jóhannesson, T., et al. [1995,eng] 50-455
- DEM corrected ERS-1 SAR data for snow monitoring. Guneriusson, T., et al. [1996,eng] 50-3149
- Diatom, chrysophyte and protozoan distributions along a latitudinal transect in Fennoscandia. Pienitz, R., et al. [1995,eng] 50-4741
- Effect of local wind on the dynamics of a Norwegian fjord. Leth, O.K., [1995,eng] 50-4135
- Effects of climate change on plant diversity and distribution. Holten, J.I., [1995,eng] 50-1006
- ERS-1 SAR wind vector data from the Norwegian continental shelf. Wackerman, C.C., et al. [1994,eng] 50-1511
- Glacial flow systems in the zone of confluence between the Scandinavian and Novaya Zemlya ice sheets. Punkari, M., [1995,eng] 50-2130
- Glacier river water study in Austre Okstindbreen Basin. Theakstone, W.H., et al. [1994,eng] 50-5700
- Holocene solifluction at Okstindan, northern Norway: a reassessment. Worsley, P., [1993,eng] 50-829
- Introduction to Fennoscandian mountains. Holten, J.I., [1995,eng] 50-1004
- Late Holocene glacier fluctuations in western Norway. Nesje, A., et al. [1991,eng] 50-3302
- Late Holocene snow avalanche activity in southern Norway. McCarroll, D., et al. [1995,eng] 50-3336
- Links between proglacial stream sediments and glacier motion. Willis, J.C., et al. [1996,eng] 50-6091
- Local circulation in a fjord and exchange of water with the adjacent ocean. Asplin, L., [1995,eng] 50-4134
- New radiocarbon dates for the Vedde ash and the Saksunarvatn ash from western Norway. Birks, H.H., et al. [1996,eng] 50-4576
- Norwegian gelifluction stages from dated buried soils. Nesje, A., [1993,eng] 50-828
- Norwegian petroleum resources with focus on challenges and opportunities in the Barents Sea. Aamodt, F.R., [1995,eng] 50-174
- Paleoclimatic implications of Norwegian postglacial avalanches. Blikra, L.H., et al. [1993,eng] 50-835
- Paleoecological implications of frost-shattered sediments on the Norwegian coast. Blikra, L.H., et al. [1995,eng] 50-2167
- Physical oceanography of fjord-coast systems in Norway. Svendsen, H., [1995,eng] 50-4132
- Plant nutrient runoff in Norwegian watersheds. Haraldsen, T.K., et al. [1995,eng] 50-741
- Potential ecological impacts of climate change in the Alps and Fennoscandian mountains. Guisan, A., ed. et al. [1995,eng] 50-1002
- Prediction of slushflow hazard—research project in Rana, Norway. Hestnes, E., et al. [1995,eng] 50-4691
- Protalus formation mechanisms in Norwegian sediments. Shakesby, R.A., et al. [1995,eng] 50-3328
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Rock-weathering by the lichen *Lecidea auriculata* in an arctic alpine environment. McCarroll, D., et al. [1995,eng] 50-416
- Scandinavian Pleistocene tectonic correlations. Riis, F., [1996,eng] 50-5323
- Sediment transport in glacial meltwater streams. Østreng, G., [1975,eng] 50-4809
- Selected aspects of the physical oceanography and particle fluxes in fjords of northern Norway. Wassmann, P., et al. [1996,eng] 50-5571
- Slushflow prediction in Rana, Norway. Hestnes, E., et al. [1993,nor] 50-402
- Slushflow prediction project in Rana, Norway. Hestnes, E., et al. [1995,eng] 50-4691
- Solifluction and climatic variation in the Holocene. Frenzel, B., ed. et al. [1993,eng] 50-823
- Stratigraphy of redeposited fossils in Norwegian Pleistocene sediments. Vorren, T.O., et al. [1981,eng] 50-3625
- Topographic influence on the flow field off Lofoten-Vesterålen. Orvik, K.A., et al. [1995,eng] 50-4133
- Vendian glaciations and their relation to the dispersal of Rodinia: paleomagnetic constraints. Torsvik, T.H., et al. [1995,eng] 50-663
- Weather and snowpack conditions essential to slushflow release and downslope propagation. Hestnes, E., et al. [1994,eng] 50-403
- Wilderness quality mapping in the Euro-Arctic Barents region. Husby, E., et al. [1995,eng] 50-3171
- Younger Dryas ice-marginal deposits in Norway. Andersen, B.G., et al. [1995,eng] 50-511
- Norway—Andøya**
- ALOMAR—a new facility for middle atmosphere research at arctic latitudes. Thrane, E.V., et al. [1995,eng] 50-4261
- Late Weichselian glacial maximum on Andøya, north Norway. Møller, J.J., et al. [1992,eng] 50-2546
- Norway—Biggajårga**
- Glacial or non-glacial origin for the Biggajårga tillite, Finnmark, northern Norway. Jensen, P.A., et al. [1996,eng] 50-4395
- Norway—Briksdalsbreen**
- Climatic effects on terminus variations of a Norwegian glacier. Nesje, A., et al. [1995,eng] 50-1836
- Norway—Eliza River**
- Preliminary results from research on proglacial outwash in Spitsbergen. Marciniak, K., et al. [1989,pol] 50-2915
- Norway—Engabreen**
- Characteristics of basal ice at Engabreen, northern Norway. Jansson, P., et al. [1996,eng] 50-6248
- Norway—Grovaabreen**
- Topographic controls on Norwegian Holocene glaciers fluctuations. Aa, A.R., [1996,eng] 50-4374
- Norway—Jan Mayen**
- Shrub ecology in an arctic landscape. Elvebakk, A., et al. [1995,eng] 50-6070
- Norway—Lapland**
- Postglacial microbiological weathering of granite roches moutonnées. André, M.F., [1995,eng] 50-4832
- Norway—Nordostlandet**
- Degradation of Arctic ice cap islands from climatic warming. Ignat'eva, I.I.U., et al. [1993,rus] 50-883
- Norway—Norwegian Sea**
- Paleoceanographic import of Norwegian Sea sediment stratigraphy. Rasmussen, T.L., et al. [1996,eng] 50-5222
- Norway—Sandane**
- Dating analysis of Norwegian Neoglaciation moraines. Matthews, J.A., et al. [1996,eng] 50-4375
- Norway—Skåla**
- Implications of bedrock cosmic ray exposure age for Fennoscandian ice sheet height. Brook, E.J., et al. [1996,eng] 50-3813
- Norway—Spitsbergen**
- 14th Spitsbergen-Hornsund 91/92 Expedition. Gizejewski, J., [1993,eng] 50-2218
- Antagonism of bacteria isolated from the soils of Western Spitsbergen, Bellsund region. Jóźwik, Z., [1993,eng] 50-2187
- Arctic tropospheric chemistry. Hernández, M.D.A., [1996,eng] 50-3868
- Arktis 1993: report on the field phase with examples of measurements. Brümmer, B., ed. [1993,eng] 50-4945
- Atmospheric CO₂ variations at Spitsbergen. Engardt, M., et al. [1996,eng] 50-3723
- Atmospheric transparency and the stress of direct solar radiation in the Arctic and Antarctic. Wójcik, G., [1989,pol] 50-2902
- Biogeochemistry of heavy metals in the Arctic. Dobrowolski, V.V., [1995,rus] 50-3971
- Bryophytes collected in arctic tundra of the Lyellstranda region. Świąć, F., et al. [1993,eng] 50-2193
- Build-up, decay and role of the sea-ice cover of the Liefdefjord, NW Spitsbergen. King, L., et al. [1994,ger] 50-1596
- Carbon cycle in the high arctic tundra of Spitsbergen. Wüthrich, C., et al. [1994,eng] 50-1595
- Cenozoic deposition on the Svalbard continental shelf. Solheim, A., et al. [1996,eng] 50-5312
- Chemical weathering in high arctic soils, Spitsbergen. Blümel, W.D., et al. [1994,ger] 50-1593
- Chemical weathering of rocks in the Hecla Hoek coal formations under polar climatic conditions. Chlebowski, R., [1989,pol] 50-2882
- Chemical-mineralogical characteristics of the water and sediments in the Petuniabukta tidal area. Stankowska, A., [1989,pol] 50-2888
- Climatic conditions of East Grøn fjord Glacier. Brázdil, R., et al. [1989,eng] 50-2907
- Climatic determination of the permafrost active layer in the Hornsund region, SW Spitsbergen. Migah, K., [1989,pol] 50-2898
- Contemporary deglaciation of the Recherche and Renard Glaciers, Spitsbergen. Reder, J., [1993,eng] 50-2208
- Contribution to the structural study of high latitude cold ice. Vallon, M., [1963,fre] 50-5741
- Contributions to polar geomorphology by the German Spitsbergen expeditions 1990-1992. Blümel, W.D., [1993,eng] 50-1672
- Contributions to the glacial history of Liefdefjord/NW Spitsbergen. Furrer, G., [1994,ger] 50-1579
- Controls on glacier surging in Svalbard. Hamilton, G.S., et al. [1996,eng] 50-4900
- Cryogenic movements of soil in Hornsund. Klementowski, J., [1989,pol] 50-2899
- Dating of Norwegian Pleistocene rock sediments. Balashov, I.U.A., et al. [1995,eng] 50-5534
- Deglaciation of the western part of Nordenskiöld Land (Spitsbergen). Kapah, J.B., [1989,pol] 50-2892
- Development of fluvial system of the Dunder Basin (Western Spitsbergen). Harasimuk, M., et al. [1993,eng] 50-2201
- Development of southern Bellsund beaches (West Spitsbergen). Jezierski, W., [1993,eng] 50-2202
- Diagnostics of glacial and glacial-marine deposits and relief forms in Spitsbergen. Luchinskaia, T.N., et al. [1972,rus] 50-545
- Differentiation of neotectonic movements in western Sørkapp Land (Spitsbergen). Szczepny, R., [1993,eng] 50-2211
- Differentiation of temperature and water vapor pressure during summer in NW Spitsbergen. Wójcik, G., et al. [1989,pol] 50-2909
- Differentiation of three-dimensional temperatures and atmospheric humidity (Spitsbergen). Przybylak, R., [1989,pol] 50-2906
- Distribution of vascular plants in Sørkapp Land (Spitsbergen). Dubiel, E., [1993,eng] 50-2185
- Dusty deposits (loesses) of the contemporary arctic zone. Wojtanowicz, J., [1993,eng] 50-2214

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- Dynamics of the processes of mechanical and chemical denudation in the Bellsund region. Bartoszewski, S., et al. [1989, pol] 50-2883
- Dynamics of underground waters in Calypsostranda region in 1990 (Western Spitsbergen). Bartoszewski, S., [1993, eng] 50-2194
- Effect of atmospheric circulation on the formation of clouds in Hornsund. Niedzwiedz, T., et al. [1989, pol] 50-2905
- Effect of extreme weather conditions on hydrological phenomena in Spitsbergen. Szczepanik, W., et al. [1989, pol] 50-2914
- Effect of the geographic environment on the occurrence of surface waters from a terraced tundra plain. Szczepanik, W., [1989, pol] 50-2918
- Emulsion breaking igniters: recent developments in oil spill igniter concepts. Guénette, C.C., et al. [1995, eng] 50-5729
- Enhanced dating procedures for arctic Quaternary marine deposits. Goodfriend, G.A., et al. [1996, eng] 50-4580
- Evolution and age of shorelines along Woodford, northern Spitsbergen. Brückner, H., et al. [1994, eng] 50-1582
- Föhn winds on Kaffiøya (NW Spitsbergen). Kejna, M., [1989, pol] 50-2911
- Freshwater net zooplankton of Spitsbergen. Terek, J., et al. [1989, eng] 50-2926
- Geochemistry of niveo-eolian sediments in Spitsbergen. Górniak, A., et al. [1993, eng] 50-2200
- Geodetic support for Spitsbergen expedition. Rawiel, P., et al. [1994, ger] 50-1576
- Geodynamic polygon in Hornsund Fjord, Spitsbergen. Pachuta, A., et al. [1989, pol] 50-2933
- Geological map (1:25,000) of the SW part of Wedel Jarlsberg Land. Czerny, J., et al. [1993, eng] 50-2197
- Geological mapping of Svalbard tectonic fault zone. McCann, A.J., et al. [1996, eng] 50-4232
- Geology and tectonic evolution of Germanialhalvøya, Spitsbergen. Piepjohn, K., et al. [1994, ger] 50-1577
- Geology of a Spitsbergen fault zone. Lamar, D.L., et al. [1993, eng] 50-4296
- Geomorphological effects of the actions of eolian processes in Oscar II Land (Spitsbergen). Sinkiewicz, M., [1989, pol] 50-2896
- Geomorphological mapping by remote sensing in Spitsbergen. Ståblein, G., et al. [1994, ger] 50-1583
- Glacial dynamics, material transfer and sedimentation in Spitsbergen. Solli, J.L., et al. [1994, eng] 50-1585
- Glaciology and glacial geomorphology of fjords in Spitsbergen. King, L., et al. [1994, ger] 50-1586
- Ground temperature of permafrost active layer in the Fugleberget catchment basin. Kamiński, A., et al. [1993, eng] 50-2203
- Heavy metal concentrations in peat profiles from the high Arctic. Headley, A.D., [1996, eng] 50-3721
- Holocene climate fluctuations and geomorphic impact of extreme events in Svalbard. André, M.F., [1995, eng] 50-4192
- Holocene shoreline displacement in southernmost Spitsbergen. Ziaja, W., et al. [1995, eng] 50-5537
- Humus conditions of oligotrophic tundra soils in Spitsbergen. Weber, L., et al. [1994, ger] 50-1594
- Hydraulic geometry of the supraglacial stream Ragnarbreken, Spitsbergen. Kostrewski, A., et al. [1989, pol] 50-2893
- Hydrological problems in the Ebba Basin and Petunia Gulf (Central Spitsbergen). Chojński, A., [1989, pol] 50-2919
- Hydrology of a polythermal glacier, Erikbreken, northern Spitsbergen. Vaine, G., et al. [1995, eng] 50-3150
- Hydrology of Bregger Glacier, Spitsbergen. Kodama, Y., et al. [1995, eng] 50-3249
- Ice rafting history from the Spitsbergen ice cap over the last 200 kyr. Lloyd, J.M., et al. [1996, eng] 50-5224
- In-situ burning of uncontained crude oil and emulsions. Guénette, C.C., et al. [1995, eng] 50-5728
- Influence of local factors on solifluction rates, Spitsbergen, Svalbard. Repelewska-Pekalowa, J., et al. [1993, eng] 50-842
- Internal drainage of the Werenskiöld and Torell glaciers, 1988. Rehák, J., et al. [1989, cze] 50-2920
- Isotopic studies on glaciers of the Institute of Geology, Estonian Academy of Sciences, on Spitsbergen. Martma, T., et al. [1989, eng] 50-2913
- Landscape differentiation and development of southeastern Sørkapp Land. Ziaja, W., [1993, eng] 50-2216
- Last Russian scientist in Spitsbergen. [1996, eng] 50-3491
- Late Quaternary glacial history and landscape development in Spitsbergen. Blümel, W.D., et al. [1994, ger] 50-1578
- Long-term variability of the atmospheric circulation over Spitsbergen. Niedzwiedz, T., [1993, eng] 50-2182
- Low summer temperatures: a potential mortality factor for high arctic soil microarthropods? Coulson, S.J., et al. [1995, eng] 50-1178
- Mapping of soil groups on Germania Peninsula in Spitsbergen. Eberle, J., et al. [1994, ger] 50-1592
- Marine and glacial Quaternary deposits of the southern Sørkapp Land, Spitsbergen. Wojcik, A., et al. [1993, eng] 50-2215
- Microbiological activity in thermoglaciar karst springs, South Spitsbergen. Lauritzen, S.E., et al. [1995, eng] 50-1403
- Modelling mountain slopes from the Late Vistulian in Spitsbergen. Drecki, J., [1989, pol] 50-2881
- Molecular and genetic diversity of arctic bedding plants. Abbott, R.J., et al. [1995, eng] 50-4093
- Norwegian Pleistocene crustal metamorphism. Ohia, Y., et al. [1995, eng] 50-5535
- Ny Friesland Orogen, Spitsbergen. Harland, W.B., et al. [1992, eng] 50-5155
- Old moraines in Lågnesfja (Western Spitsbergen). Musiał, A., [1989, pol] 50-2891
- Outflow from the glacial river of the Werenskiöld Glacier and from Fuglebekken. Leszkiewicz, J., et al. [1989, pol] 50-2921
- Palaeogene flora of Spitsbergen: implications for arctotertiary palaeogeography. Manum, S.B., [1994, eng] 50-907
- Palaeogeology of arctic lake sediment macrofossils. Birks, H.H., [1991, eng] 50-3305
- Palaeogeography of the Hörbye valley during the Plenivistulian and Holocene. Karczewski, A., [1989, pol] 50-2885
- Patterned ground in the inner Woodford-area, NW Spitsbergen. Thannheiser, D., et al. [1994, ger] 50-1589
- Permafrost mounds in Lapland and Spitsbergen. Meier, K.D., [1989, ger] 50-645
- Photogrammetry and geomorphology of high arctic push moraines. King, L., et al. [1993, eng] 50-1673
- Photometry of Mt. Pinatubo aerosols at Spitsbergen. Beyerle, G., et al. [1995, eng] 50-1183
- Postglacial sedimentation in the Liefdefjord area, NW Spitsbergen. Baumhauer, R., et al. [1994, ger] 50-1581
- Potential for using wind energy on Hornsund. Skrzypczak, E., [1989, pol] 50-2908
- Preliminary results from research on proglacial outwash in Spitsbergen. Marcinia, K., et al. [1989, pol] 50-2915
- Problems associated with the occurrence of glacial forms on the bottom of fjords in Spitsbergen. Kowalewski, W., et al. [1989, pol] 50-2879
- Profile of the sub-moraine organogenetic sediments in the forefield of the Renard Glacier. Dzierzek, J., et al. [1989, pol] 50-2890
- Quartz grain in the glacier and periglacial environment of Oscar II Land. Kowalkowski, A., et al. [1989, pol] 50-2900
- Raised marine terraces on the western border of Petuniaukta, central Spitsbergen. Rygielski, W., et al. [1989, pol] 50-2886
- Recent fluctuations of glaciers in Kongstjorden, Spitsbergen. Svalbard (79°N). Lefauconnier, B., [1992, eng] 50-3436
- Recent fluvial sediment budgets in glacial and periglacial environments, NW Spitsbergen. Barsch, D., et al. [1994, eng] 50-1584
- Reconstructed runoff from the high arctic basin Bayelva based on mass-balance measurements. Hagen, J.O., et al. [1995, eng] 50-4013
- Relief of the Breinesfjella plain and Wiederfjellet massif in western Sørkapp Land (Spitsbergen). Gebica, P., [1989, pol] 50-2889
- Report on heavy metals. Melnikov, S.A., [1991, eng] 50-3419
- Report on the Czechoslovak biological diving expedition "Arctic 92". Duvriš, Z., [1993, eng] 50-2217
- Research into the Hansbreen, a tidewater glacier in Spitsbergen. Glazovskii, A.F., et al. [1992, eng] 50-3438
- Research on the concentration of suspended matter in the rivers of Kaffiøya (NW Spitsbergen). Pietrucień, C., et al. [1989, pol] 50-2917
- Revegetation on tracked vehicle paths, Vestspitsbergen. Korolova, N.E., [1995, eng] 50-2569
- Rock breakdown during spring thaw in Spitsbergen. Ødegård, R.S., et al. [1995, eng] 50-4831
- Role of the varieties of the *Mniaceae* family in tundra communities of Spitsbergen. Karozmarz, K., et al. [1989, pol] 50-2924
- Sandbanks in river beds in the foreground of Hörbye Glacier, Spitsbergen. Rachlewicz, G., [1989, pol] 50-2894
- Sea levels in Petuniaukta—central Spitsbergen. Stankowski, W., [1989, pol] 50-2887
- Sea-breeze winds in Kaffiøya (NW Spitsbergen) in the summer of 1985. Kejna, M., [1989, pol] 50-2912
- Seasonal variations of stream water chemistry in Spitsbergen. Poutschin, M., et al. [1994, ger] 50-1587
- Sediment flux from a fjord during glacial periods, Isfjorden, Spitsbergen. Hooke, R.L., et al. [1996, eng] 50-5318
- Sediment transport and discharge in a high arctic catchment (Liefdefjorden, NW Spitsbergen). Barsch, D., et al. [1994, eng] 50-1545
- Sediments in the Liefdefjord and Woodfjord of Spitsbergen. Kroemer, E.A., et al. [1994, eng] 50-1580
- Slush stream phenomena—process and geomorphic impact. Barsch, D., et al. [1993, eng] 50-1674
- Snow evaporation from Spitsbergen tundra surfaces. Takeuchi, Y., et al. [1995, eng] 50-3250
- Soil studies in the region of southern Bellsund area (Western Spitsbergen). Klimowicz, Z., et al. [1993, eng] 50-2205
- Solifluction and creep rates 1972-1991, Kapp Linné, West Spitsbergen. Åkerman, H.J., [1993, eng] 50-841
- Spaceborne photography of Spitsbergen marginal ice zone. Kergomard, C., [1989, fre] 50-5029
- Spitsbergen—Resources and economic development in a High Arctic island group. Thannheiser, D., [1996, ger] 50-6574
- Stratospheric ozone layer above Spitsbergen in winter 1989. Neuber, R., et al. [1990, eng] 50-5975
- Tardigrada of the arctic tundra with descriptions of two new species. Maucou, W., [1996, eng] 50-5293
- Tectonics sketch of the offshore area within Hornsund region, Spitsbergen. Bednarek, J., et al. [1993, eng] 50-2195
- TEM and SEM studies of organic forms in anthraxolite coal from Krakken (Spitsbergen). Czerny, J., et al. [1993, eng] 50-2198
- Temperatures in the plant communities of West Spitsbergen. Moczyłowski, E., et al. [1993, eng] 50-2192
- Terrain as a controlling factor for slush streams in Spitsbergen. Scherer, D., et al. [1994, eng] 50-1588
- Thermal differentiation in slopes of a small periglacial valley (Bellsund, Spitsbergen). Lanczont, M., et al. [1989, pol] 50-2910
- Thermal Orvin spring below Mount Gnålberget (Hornsund, Spitsbergen). Pociask-Karteczka, J., [1989, eng] 50-2922
- Topographic and thematic maps of the Spitsbergen Expedition, 1990-1992. Brunner, K., et al. [1994, ger] 50-1575
- Transport dynamics of material carried in the Waldemar River in Spitsbergen during the 1985 summer season. Pietrucień, C., et al. [1989, pol] 50-2916
- Vegetation cover and moisture effects on solifluction in Spitsbergen. Schmitt, E., [1994, ger] 50-1591
- Vegetation geographical/synsociological research at Liefdefjord (NW Spitsbergen). Thannheiser, D., [1994, ger] 50-1590
- Vertical particle flux on the shelf off northern Spitsbergen, Norway. Andreasen, I., et al. [1996, eng] 50-6566
- VII. Contents of Cu, Mn, Zn, Pb and Cd in plants and soil on Western Spitsbergen—Bellsund region. Józwiak, Z., et al. [1993, eng] 50-2188
- Volcanic perturbation of the atmosphere in both polar regions: 1991-1994. Herber, A., et al. [1996, eng] 50-3444
- Winter outflows of waters from the Werenskiöld Glacier in the hydrological year 1985/1986. Krawczyk, W.E., et al. [1993, eng] 50-2207
- XVI Polar Symposium: Achievements and Prospects of Polish Polar Research, Toruń, Sep. 19-20, 1989. Polar Symposium, 16th, Toruń, Poland, Sep. 19-20, 1989, [1989, pol] 50-2870
- Norway—Svalbard**
- Barents Sea Pleistocene ice sheet growth deduced from marine sediment provenance. Elverhøi, A., et al. [1995, eng] 50-2012
- Detection of air pollution at a Svalbard mountain station. Beine, H.J., et al. [1996, eng] 50-5205
- Dynamic response of high arctic glaciers to global warming and their contribution to sea-level rise. Lam, J.K.W., et al. [1995, eng] 50-6618
- Dynamics of the last glaciation in eastern Svalbard. Salvigen, O., et al. [1995, eng] 50-4714
- Early Holocene environment on Bjørnøya from lake sediments. Wohlfarth, B., et al. [1995, eng] 50-4721
- Early Holocene land florae and faunas from Edgeøya, eastern Svalbard. Bennike, O., et al. [1995, eng] 50-4717
- Elementary circulation mechanisms and external mass and energy exchange on Svalbard glaciers. Markin, V.A., [1972, rus] 50-524
- Fluctuations of the Vestfonna Ice Margin. Donner, J.J., et al. [1995, eng] 50-4505
- Formaminera in glaciomarine sediments of arctic fjords. Korsun, S.A., et al. [1995, eng] 50-939
- Fresh water in Svalbard fjord ecosystems. Węślawski, J.M., et al. [1995, eng] 50-4137
- Fungal hyphal length in litter of *Dryas octopetala* in high-arctic polar semi-desert, Svalbard. Robinson, C.H., et al. [1996, eng] 50-4010
- Geology and mining in Svalbard. Cipitelli, G., [1994, ita] 50-2820
- Glaciological research in Svalbard: a bibliography. Macqueen, A.D., [1993, eng] 50-5208
- Glacioclastic process at Svalbard. Hambrey, M.J., et al. [1995, eng] 50-6559
- Japanese glaciological environmental studies in the arctic cryosphere. Watanabe, O., [1995, jpn] 50-3507
- Late Quaternary foraminiferal stratigraphy from western Svalbard. Lycke, A.K., et al. [1992, eng] 50-2557
- Late Quaternary glacial and environmental history of Kongsoya, Svalbard. Ingolfsson, Ö., et al. [1995, eng] 50-4713
- Late Weichselian to early Holocene sedimentation in eastern Svalbard. Möller, P., et al. [1995, eng] 50-4716
- Mass balance variations as surge controls of Norwegian glaciers. Dowdeswell, J.A., et al. [1995, eng] 50-4537
- Megabenthic communities in the waters around Svalbard. Piepenburg, D., et al. [1996, eng] 50-6722
- NERC Arctic research station. Cox, N., [1996, eng] 50-3705
- Nitrogen fixation in arctic vegetation and soils from Svalbard, Norway. Solheim, B., et al. [1996, eng] 50-4007
- Observations of polar stratospheric clouds in the arctic winter 1989 at 79°N. Krüger, B.C., [1990, eng] 50-5984
- On the glaciology of Edgeøya and Barentsøya, Svalbard. Dowdeswell, J.A., et al. [1995, eng] 50-4712
- Outflow of dense water from the Storfjord in Svalbard: a numerical model study. Jungclauss, J.H., et al. [1995, eng] 50-2777
- Past glaciation and sea levels on Bjørnøya, Svalbard. Salvigen, O., et al. [1995, eng] 50-4720
- Permafrost influence on glacier sediment deformation. Eizelmüller, B., et al. [1996, eng] 50-6240
- Pleistocene glacial history of the Svalbard area. Hebbeln, D., [1992, eng] 50-2558
- Postglacial sea-level history of Edgeøya and Barentsøya, eastern Svalbard. Bondevik, S., et al. [1995, eng] 50-4715
- Present and early Holocene foraminiferal distribution in eastern Svalbard. Hansen, A., et al. [1995, eng] 50-4718
- Quaternary record of eastern Svalbard—an overview. Landvik, J.Y., et al. [1995, eng] 50-4711
- Radiocarbon dated common mussels *Mytilus edulis* from eastern Svalbard. Hjort, C., et al. [1995, eng] 50-4719
- Seismic refraction soundings 1993 on rock glacier permafrost in north-western Svalbard. Wagner, S., [1995, eng] 50-851
- Shrub ecology in an arctic landscape. Elvebak, A., et al. [1995, eng] 50-6070

Norway—Svartisen

- Solid phase sedimentation in the Barents Sea. Hulth, S., et al. [1996.eng] 50-6723
- Studies of the polar middle and lower atmosphere by an MST radar on Svalbard. Röttger, J., et al. [1995.eng] 50-4262
- Subpermafrost groundwater, western Svalbard. Haldorsen, S., et al. [1994.eng] 50-5697
- Surface radiation budget, Svalbard and Antarctica. 1987. Yamanouchi, T., et al. [1995.eng] 50-2580
- Svalbard—field excursion in arctic marine biology, June 5-14, 1995. Weissenberger, J., ed. et al. [1995.eng] 50-1554
- Thermal erosion in high arctic ecosystems in Spitsbergen. King, L., et al. [1993.eng] 50-843
- Thrusting and debris entrainment in a surging glacier: Bakaninbreen, Svalbard. Hambrey, M.J., et al. [1996.eng] 50-6267
- Weichselian glaciation in Svalbard before 15,000 B.P. Salvigsen, O., et al. [1981.eng] 50-3623

Norway—Svartisen

- Dam construction for Norway's largest hydropower reservoir. Karlsen, L.E., et al. [1995.eng] 50-5707

Norway—Telemark

- Paleogeographic significance of Norwegian block field periglacial processes. Sellier, D., [1995,fr] 50-4878

Norway—Troms

- Surface ozone at high latitudes. Theodorsen, A., et al. [1996.eng] 50-4871

Norway—Waldemar River

- Transport dynamics of material carried in the Waldemar River in Spitsbergen during the 1985 summer season. Pietrucieci, C., et al. [1989.pol] 50-2916

Norwegian Sea

- Aerosols composition over the Arctic Ocean. Shevchenko, V.P., et al. [1995.eng] 50-2061
- Benthic-pelagic coupling in the Greenland-Norwegian Sea and its effect on the geological record. Graf, G., et al. [1995.eng] 50-747
- Cenozoic Northern Hemisphere glaciations. Thiede, J., et al. [1995.eng] 50-5240
- Comment on paper by Baumann et al. Forsström, L., et al. [1996.eng] 50-6709
- ERS-1 SAR wind vector data from the Norwegian continental shelf. Wackerman, C.C., et al. [1994.eng] 50-1511
- Geostrophic circulation of water in the vicinity of the meteorological vessel "M" in March-April 1987. Korotkov, S.V., [1992.rus] 50-1263
- High precision ^{230}Th and ^{238}Th in the Norwegian Sea and Denmark by thermal ionization mass spectrometry. Moran, S.B., et al. [1995.eng] 50-2022
- Infrasound signatures of a polar low in the Norwegian and Barents Sea on 23-27 March 1992. Ørbæk, J.B., et al. [1995.eng] 50-2026
- Inter-annual variation in the radiation and turbulent flow in the Barents, Norwegian and Greenland seas. Girdiuk, G.V., [1992.rus] 50-1270
- Marine sedimentation rates as evidence of continental glaciation. Goldschmidt, P.M., [1995.eng] 50-1828
- Metabolism of deep-sea sponges in the Greenland-Norwegian Sea. Witte, U., et al. [1996.eng] 50-6613
- North Sea and Norwegian Sea hydrocarbon exploration. Alberti Di Catenaja, C., et al. [1994.ita] 50-2818
- Norwegian petroleum resources with focus on challenges and opportunities in the Barents Sea. Aamodt, F.R., [1995.eng] 50-174
- Norwegian Sea Pleistocene ice-core indicators of climatic change. Sejrup, H.P., et al. [1995.eng] 50-6564
- Pelagic processes in the Norwegian and Greenland Seas. von Bodungen, B., et al. [1995.eng] 50-746
- Plankton ecosystems in the Norwegian and Greenland Sea. Samlebren, C., et al. [1995.eng] 50-749
- Release of brine-enriched shelf water from Storfjord into the Norwegian Sea. Schauer, U., [1995.eng] 50-574
- Report on heavy metals. Melnikov, S.A., [1991.eng] 50-3419
- Spectrometry of Norwegian Sea water radioactive isotopes. Moran, S.B., et al. [1995.eng] 50-1186
- Subtidal and tidal currents in the vicinity of the Iceland-Faeroes front. Allen, J.T., [1995.eng] 50-159
- Wind gusts in northern seas. Zykova, G.G., [1992.rus] 50-1271

Nuclear magnetic resonance

- Magnetic resonance imaging of frozen plant tissues. Gamble, G.R., [1994.eng] 50-3360
- Monitoring clathrate hydrate formation on ice surfaces. Pietrass, T., et al. [1995.eng] 50-2127
- Phase transitions of ice confined in mesopores. Hansen, E.W., et al. [1996.eng] 50-4141
- Phase transitions of water films adsorbed on pyrogenic silica. Bogdan, A., et al. [1996.eng] 50-2021
- Premelting of ice in porous silica glass. Ishizaki, T., et al. [1996.eng] 50-6759
- Unfrozen water types in hydrated phospholipid bilayers. Hsieh, C.H., et al. [1995.eng] 50-3038
- Water rotation in supercooled aqueous solutions. Nakahara, M., et al. [1995.eng] 50-153
- See [also]: Electron paramagnetic resonance

Nuclear power

- Dynamic isotope power system. Hunt, M.E., et al. [1992.eng] 50-396
- Ecological safety of navigation on the Northern Sea Route. Semanov, G.N., [1996.eng] 50-4437
- Modelling the release of radioactive waste in the Kara Sea. Timms, S.J., et al. [1995.eng] 50-5059

- Nuclear energy for district heating. Bodh, R.M., [1984.eng] 50-3163
- Nuclear waste management in Canada. MacDowall, J., [1984.eng] 50-3164
- Preliminary results of studies of industrial and nuclear contaminants in the Ob and Yenisey rivers and the Kara Sea. Champ, M.A., et al. [1995.eng] 50-5060
- Proceedings. International Conference on Engineering and Development in Northern Regions, Sapporo, Japan, Jan. 31-Feb. 2, 1983, [1984.eng] 50-3158

Nuclear wastes

See [also]: Radioactive wastes

Nucleating agents

- Applications of bacterial ice nucleation activity in food processing. Watanabe, M., et al. [1995.eng] 50-3287
- Applications of biological ice nucleators in spray-ice technology. LaDuca, R.J., et al. [1995.eng] 50-3289
- Biochemistry of bacterial ice nuclei. Fall, R., et al. [1995.eng] 50-3274
- Biological control of insect pests using ice-nucleating microorganisms. Lee, R.E., Jr., et al. [1995.eng] 50-3284
- Biological ice nucleation and its applications. Lee, R.E., Jr., ed. et al. [1995.eng] 50-3270
- Control of epiphytic ice nucleation-active bacteria for management of plant frost injury. Lindow, S.E., [1995.eng] 50-3283
- Ecology of ice nucleation-active bacteria. Hirano, S.S., et al. [1995.eng] 50-3273
- Ice nucleation activity associated with plants and fungi. Ashworth, E.N., et al. [1995.eng] 50-3278
- Ice nucleation genes as reporters. Panopoulos, N.J., [1995.eng] 50-3285
- Ice nucleation-active genes and proteins. Warren, G.J., [1995.eng] 50-3275
- Molecular modeling of the three-dimensional structure of bacterial Ipa proteins. Kajava, A.V., [1995.eng] 50-3276
- Role of nucleation in cryopreservation. Fahy, G.M., [1995.eng] 50-3288
- Roles of ice nucleators in cold tolerant invertebrates. Duman, J.G., et al. [1995.eng] 50-3281
- Supercooling and ice nucleation in vertebrate ectotherms. Costanzo, J.P., et al. [1995.eng] 50-3282
- Transduction of *ina* genes for bacterial identification. Wolber, P.K., et al. [1995.eng] 50-3286
- See [also]: Dry ice (trademark); Silver iodide

Nucleation

- Analytical study of frost nucleation and growth during the crystal growth period. Şahin, A.Z., [1995.eng] 50-44
- Bursts of cloud condensation nuclei (CCN) by dissipating clouds at Palmer Station, Antarctica. Saxena, V.K., [1996.eng] 50-3602
- Giant facets at ice grain boundary grooves. Wilen, W.A., et al. [1995.eng] 50-973
- Ice microcracking due to grain boundary sliding. Elvin, A.A., et al. [1996.eng] 50-4185
- Nucleation of microcracks in ice cubes compressed equally on all boundaries. Weiss, J., et al. [1996.eng] 50-5867
- See [also]: Artificial nucleation; Condensation nuclei; Freezing nuclei; Heterogeneous nucleation; Homogeneous nucleation; Ice crystal nuclei; Ice nuclei; Organic nuclei; Snow crystal nuclei; Two dimensional nucleation

Nucleation rate

- Bacterial ice nucleation and its potential applications in the food industry. Li, J.K., et al. [1995.eng] 50-1956
- Cryomicroscopic determination of ice crystal growth in the system 2,4-pentadiol/water. Mehl, P.M., [1996.eng] 50-2744
- Crystallization of ice in glycerol solutions. pt.1. Hey, J.M., et al. [1996.eng] 50-5813
- Diffuse interface analysis of ice nucleation in undercooled water. Gránásky, L., [1995.eng] 50-1279
- Frazil evolution in channels. Hammar, L., et al. [1995.eng] 50-647
- Influence of temperature on crystallization of lactose in ice-cream. Livney, Y.D., et al. [1995.eng] 50-2745
- Kinetics of freezing of dimethylacetyle. An electron diffraction study. Huang, J.F., et al. [1995.eng] 50-151
- Nucleation rates in freezing of molecular clusters. Bartell, L.S., [1995.eng] 50-2346
- Principles of ice nucleation. Vali, G., [1995.eng] 50-3271

Nuclei

See [also]: Condensation nuclei; Freezing nuclei; Ice crystal nuclei; Ice nuclei; Organic nuclei; Snow crystal nuclei

Numerical analysis

See [also]: Analysis (mathematics)

Numerical models

See [also]: Mathematical models

Nunataks

- Ice-flow indications of complex Alaskan deglaciation events. Syverson, K.M., [1995.eng] 50-1801
- Nunataks of the last ice sheet in northwest Scotland. McCarroll, D., et al. [1995.eng] 50-3366
- Pleistocene glaciation of the Outer Hebrides, Scotland. Ballantyne, C.K., et al. [1995.eng] 50-6212
- Satellite imagery of ice sheet drainage basins. Russian Arctic. Dowdeswell, J.A., et al. [1995.eng] 50-3327

Nutrient cycle

- Aerosol deposition to an alpine tundra ecosystem. Sievering, H., et al. [1996.eng] 50-5964
- Alaskan tundra sedge response to fertilizer treatment. Shaver, G.R., et al. [1995.eng] 50-1469

Nutrient cycle

- Antarctic macroalgae—sources of volatile halogenated organic compounds. Laturnus, F., et al. [1996.eng] 50-5594
- Application of chemical fertilizers in Xinjiang. Huang, Z.W., et al. [1991.chi] 50-5128
- Arctic and alpine biodiversity: patterns, causes and ecosystem consequences. [1995.eng] 50-3888
- Arctic kelp community in the Alaskan Beaufort Sea. Dunton, K.H., et al. [1982.eng] 50-3681
- Arctic soil microbial biomass response to fertilizer additions. Jonasson, S., et al. [1996.eng] 50-6230
- Arctic terrestrial ecosystems and environmental change. Callaghan, T.V., et al. [1995.eng] 50-5232
- Arctic wasteland: a perspective on arctic pollution. Davis, N., [1996.eng] 50-5838
- Atmospheric deposition at Niwot Ridge, CO. Rusch, D., et al. [1995.eng] 50-2395
- Benthic foraminiferal assemblages and sea ice drift in the Arctic Ocean. Wollenburg, J., [1995,ger] 50-2443
- Benthic-pelagic coupling in the Greenland-Norwegian Sea and its effect on the geological record. Graf, G., et al. [1995.eng] 50-747
- Biological processes on arctic continental shelves: ice-ocean-biotic interactions. Grebmeier, J.M., et al. [1995.eng] 50-1166
- Biomass diversity in arctic and alpine ecosystems. Pastor, J., [1995.eng] 50-3904
- Biomass, primary production, and nutrient dynamics in a Himalayan forest. Rawat, Y.S., et al. [1994.eng] 50-5435
- Bromoform emission from ice algae and arctic ozone depletion. Buckley, P.T., [1993.eng] 50-700
- Carbon acquisition and growth of antarctic sea ice diatoms in closed bottle incubations. Gleitz, M., et al. [1996.eng] 50-5455
- Carbon cycle in the high arctic tundra of Spitsbergen. Wüthrich, C., et al. [1994.eng] 50-1595
- Causes and consequences of plant functional diversity in arctic ecosystems. Chapin, F.S., III, et al. [1995.eng] 50-3902
- Characteristics of water quality in a forest river during the snow melting period. Tachibana, H., et al. [1994.eng] 50-4222
- Characterization of eastern U.S. spruce-fir soils. Fernandez, J.I., [1992.eng] 50-4051
- Chemical oceanography of the Arctic and its shelf seas. Anderson, L.G., [1995.eng] 50-1164
- Cold temperature nutrient removal from wastewater. Oleszkiewicz, J.A., et al. [1996.eng] 50-6151
- Consumption of nitrogen compound from snowpack by microbiological activity. Suzuki, K., et al. [1996.jpn] 50-6728
- Control of tundra methane emission by microbial oxidation. Whalen, S.C., et al. [1996.eng] 50-4850
- Dissolved organic matter in arctic sea ice. Thomas, D.N., et al. [1995.eng] 50-717
- DOC storage in arctic seas: the role of continental shelves. Walsh, J.J., [1995.eng] 50-1165
- Dynamics of dissolved and particulate carbon in an arctic stream. Oswood, M.W., et al. [1996.eng] 50-4851
- Ecology and decline of red spruce in the eastern United States. Eagar, C., ed. et al. [1992.eng] 50-4049
- Ecology of an alpine cushion plant. Owen, W.R., [1995.eng] 50-1540
- Ecophysiology of a snow-bed moss during snowmelt. Woolgrove, C.E., et al. [1996.eng] 50-6748
- Effect of root fungi on subarctic plant growth. Fernando, A.A., et al. [1996.eng] 50-6747
- Effects of air pollution on carbon allocation in red spruce. McLaughlin, S.B., et al. [1992.eng] 50-4058
- Effects of nutrient availability on arctic sedge growth. Gebauer, R.L.E., et al. [1995.eng] 50-2540
- Effects of tree litter decomposition on forest soil composition. Harris, M.M., et al. [1996.eng] 50-3309
- Effects of understory alder on forest soil fertility. Wurzl, T.L., [1995.eng] 50-1090
- Estimation of the autochthonous detritus flux through plankton communities of the Kara Sea. Lebedeva, L.P., et al. [1995.eng] 50-3541
- Evergreen shrub leaf variations in taiga and tundra landscapes. Kudo, G., [1995.eng] 50-2732
- Flux and preservation of organic carbon in Baffin Island fjords. Syvitski, J.P.M., et al. [1990.eng] 50-924
- Fluxes of nutrients between benthic and plankton communities in the coastal zone of the Barents Sea. Kuznetsov, L.L., et al. [1995.eng] 50-3606
- Freshwater impact on Hudson bay ecosystems under sea ice. pt.3. Fortier, L., et al. [1996.eng] 50-4021
- Fungal hyphal length in litter of *Dryas octopetala* in high-arctic polar semi-desert, Svalbard. Robinson, C.H., et al. [1996.eng] 50-4010
- Growth response of mosses to simulated subarctic environmental change. Potter, J.A., et al. [1995.eng] 50-3860
- Heavy metals in the podsol desert soils of the Fukang region. Xie, Y.Y., et al. [1991.chi] 50-5133
- High resolution study of the platelet ice ecosystem in McMurdo Sound. Arrigo, K.R., et al. [1995.eng] 50-2522
- How unique is primary plant succession at Glacier Bay. Walker, L.R., [1995.eng] 50-3749
- Humus conditions of oligotrophic tundra soils in Spitsbergen. Weber, L., et al. [1994,ger] 50-1594
- Hydrochemical characteristics of the Kara Sea. Makkaveev, P.N., et al. [1995.eng] 50-3532
- Hydrological controls on ecosystem gas exchange in an arctic landscape. Ostendorf, B., et al. [1996.eng] 50-4855

- Hydrological processes contributing to nitrogen leaching. Lepistö, A., [1996,eng] 50-5599
- Influence of pocket gophers on the status of nutrients in alpine soils. Litaor, M.I., et al., [1996,eng] 50-4951
- Integrated ecosystem research in northern Alaska, 1947-1994. Shaver, G.R., [1996,eng] 50-4840
- International Conference on Global Change and Arctic Terrestrial Ecosystems—recommendations. Arctic Global Change Conference, Oppdal, Norway, Aug. 21-26, 1993, [1993,eng] 50-3331
- Iron(II) in rainwater, snow, and surface seawater from a coastal environment. Zhuang, G.S., et al., [1995,eng] 50-979
- Isotope analysis of Arctic Ocean ice algae primary productivity. Hobson, K.A., et al., [1995,eng] 50-3359
- Isotope analysis of variable subarctic plant nutrient access. Michelsen, A., et al., [1996,eng] 50-5772
- Isotopic analysis of phosphorus in soils and crops of Xinjiang. Wu, G.H., et al., [1991,chi] 50-5130
- Lakes and marshes in Hokkaido. Sakata, Y., ed, et al., [1990,jpn] 50-2292
- Land-water interactions: the influence of terrestrial diversity on aquatic ecosystems. Kling, G.W., [1995,eng] 50-3906
- Landscape function and disturbance in arctic tundra. Reynolds, J.F., ed, et al., [1996,eng] 50-4838
- Landscape patterns of carbon dioxide exchange in tundra ecosystems. Oberbauer, S.F., et al., [1996,eng] 50-4849
- Leaf extract allelopathic effects on arctic graminoids. Michelsen, A., et al., [1995,eng] 50-1091
- Mesoplankton in the east Kara Sea and the Ob and Yenisey River estuaries. Vinogradov, M.E., et al., [1995,eng] 50-3539
- Methane emissions from wetlands at northern treeline. Rouse, W.R., et al., [1995,eng] 50-75
- Microbial responses to nitrogen additions in alpine tundra soil. Fisk, M.C., et al., [1996,eng] 50-6065
- Microfaunal response to fertilization of an arctic tundra stream. Rublee, P.A., et al., [1995,eng] 50-870
- Microorganisms sustaining large animals in seasonally ice-covered seas. Legendre, L., [1996,eng] 50-5907
- Microplankton bloom dynamics in McMurdo Sound, Antarctica. Stoecker, D.K., et al., [1993,eng] 50-3394
- Model for the development of pod-zolchic soils by windthrow. Vasenev, I.I., et al., [1995,eng] 50-2712
- Modeling decomposition in arctic ecosystems. Moorhead, D.L., et al., [1996,eng] 50-4854
- Nitrate transport in snowmelt in the Green Mountains, northern Vermont. Daly, D.M., [1995,eng] 50-3128
- Nitrogen fixation in arctic vegetation and soils from Svalbard, Norway. Solheim, B., et al., [1996,eng] 50-4007
- Nitrogen fixers in early primary succession at Glacier Bay. Kohls, S.J., et al., [1995,eng] 50-3747
- Nitrogen soil dynamics in an arctic lowland ecosystem. Chapin, D.M., [1996,eng] 50-4340
- Nutrient and persistent pollutant deposition on the Bothnian Bay ice and snow fields. Rahm, L., et al., [1995,eng] 50-1650
- Nutrient availability and uptake by tundra plants. Schimel, J.P., et al., [1996,eng] 50-4848
- Nutrient availability in Alaskan upland forest sites. Yarie, J., et al., [1994,eng] 50-4798
- Nutrient cycle in the Bransfield Strait. Wang, Y.H., et al., [1989,chi] 50-6773
- Nutrients in the Aral Sea in winter. Tsytarin, A.G., [1995,eng] 50-5481
- Oceanographic conditions of Murman coastal biocenoses. Boitsov, V.D., et al., [1995,eng] 50-4138
- Organic carbon in late Quaternary Arctic Ocean sediments. Schubert, C.J., [1995,ger] 50-2454
- Palaeo-ecophysiological studies on cretaceous and tertiary fossil floras. Beerling, D.J., [1994,eng] 50-895
- Patch and landscape models of arctic tundra: potentials and limitations. Reynolds, J.F., et al., [1996,eng] 50-4852
- Patterns of early lake ontogeny in Glacier Bay as inferred from diatom assemblages. Fritz, S.C., et al., [1995,eng] 50-3750
- Phytoplankton seasonal bloom shift in Barents Sea ice. Strass, V.H., et al., [1996,eng] 50-6721
- Plankton dynamics in the Barents Sea marginal ice zone. Hansen, B., et al., [1996,eng] 50-3528
- Plant effects on arctic ecosystem biogeochemical processes. Hobbie, S.E., [1995,eng] 50-3901
- Plant functional diversity and resource control of primary production in Alaskan arctic tundras. Shaver, G.R., [1995,eng] 50-3900
- Plant nutrient runoff in Norwegian watersheds. Haraldsen, T.K., et al., [1995,eng] 50-741
- Plant-vertebrate herbivore interface in arctic ecosystems. Jefferies, R.L., et al., [1995,eng] 50-3905
- Primary production and chlorophyll in the Kara Sea in September 1993. Vedernikov, V.I., et al., [1995,eng] 50-3536
- Primary productivity and microbial variations in the Chukchi Sea. Coia, G.F., et al., [1996,eng] 50-5457
- Proceedings. Glacier Bay Science Symposium, 3rd, Glacier Bay National Park and Preserve, Gustavus, AK, Sep. 15-18, 1993, [1995,eng] 50-3730
- Reassessment of the Eurasian river input of water, sediment, major elements, and nutrients to the Arctic Ocean. Gordeev, V.V., et al., [1996,eng] 50-5693
- Relation between distribution of phytoplankton and sea water stability. Su, Y.F., [1989,chi] 50-6767
- Responses of arctic polar desert plant litter chemistry to climatic changes. Robinson, C.H., et al., [1995,eng] 50-5100
- Russian soil depletion by snowmelt. Chernyshev, E.V., et al., [1995,eng] 50-2148
- Seasonal variations in antarctic sea ice brine chemistry. Gleitz, M., et al., [1995,eng] 50-1117
- Sediment-based carbon nutrition in tropical alpine *Isotetes*. Keeley, J.E., et al., [1994,eng] 50-3052
- Snow damage to spruce trees during a fertilization experiment. Valinger, E., et al., [1996,eng] 50-4330
- Soil nutrient dynamics in East African alpine ecosystems. Rehder, H., [1994,eng] 50-3055
- Soil-mediated effects of atmospheric deposition on eastern U.S. spruce-fir forests. Johnson, D.W., et al., [1992,eng] 50-4055
- Solid phase sedimentation in the Barents Sea. Hulth, S., et al., [1996,eng] 50-6723
- Spring-bloom time-series at the Bering Sea ice edge pt.1. Niebauer, H.J., et al., [1995,eng] 50-1031
- Stability of M_2 critical latitude in the Barents Sea. Furevik, T., et al., [1996,eng] 50-5262
- Stable isotopic investigation of nitrogen dynamics at Glacier Bay, Alaska. Hobbie, E.A., et al., [1995,eng] 50-3746
- Status of a Weddell Sea foraminifer. Berberich, D., [1996,ger] 50-3867
- Study of Bering Sea primary productivity. Sapozhnikov, V.V., et al., [1995,eng] 50-6687
- Study on a high-efficiency new type of urea fertilizer using ^{15}N . Xiong, J.M., et al., [1991,chi] 50-5129
- Study on the dynamics of chemical elements in desert saline soil-plant systems. Wang, Z.Q., et al., [1991,chi] 50-5132
- Surface water chemistry and hydrology of a small arctic drainage basin. Everett, K.R., et al., [1996,eng] 50-4847
- Suspended sediments and organic carbon in Glacier Bay fjords. Cowan, E.A., [1995,eng] 50-3734
- Temperate rainforest lakes of Chile and British Columbia. Soto, D., et al., [1996,eng] 50-4066
- Tidally forced under-ice Ekman layers observed by an acoustic Doppler current profiler. Marsden, R.F., et al., [1995,eng] 50-5933
- Tropical alpine environments—plant form and function. Rundel, P.W., ed, et al., [1994,eng] 50-3043
- Turnover and conservation of nutrients in the pachycaul *Senecio keniodendron*. Beck, E., [1994,eng] 50-3054
- Variability in nutrient concentrations around Elephant Island, Antarctica, during 1991-1993. Silva, S., N., et al., [1995,eng] 50-941
- Vegetation and nutrient pools in an arctic watershed. Hahn, S.C., et al., [1996,eng] 50-4843
- Vertical light attenuation by phytoplankton absorption in the Greenland Sea. Dalløkken, R., et al., [1995,eng] 50-4131
- Water chemistry and periphyton in an alpine wetland. Toet, D., [1995,eng] 50-4161
- Water limitations and plant community development in a polar desert. Gold, W.G., et al., [1995,eng] 50-2463
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al., [1995,eng] 50-3127
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al., [1995,eng] 50-4610
- Zooplankton communities of lakes in Glacier Bay National Park. Olson, O.G., et al., [1995,eng] 50-3751
- Oblique photography**
- Recent responses of Chilean glaciers to climatic changes. Holmlund, P., et al., [1995,eng] 50-1868
- Ocean air interface**
- See [also]: Air water interactions
- Ocean atmosphere interactions**
- See [also]: Air water interactions
- Ocean bottom**
- "Frozen" flowline reduces strain on pipe wall during tow-out. [1996,eng] 50-4148
- Antarctic bottom topography and its representation on new bathymetric charts. Marova, N.A., [1993,rus] 50-4509
- Arctic algal communities in the region of the Nuvuk Islands, northeastern Hudson Bay, Canada. Keats, D.W., et al., [1989,eng] 50-3692
- Arctic kelp community in the Alaskan Beaufort Sea. Dunton, K.H., et al., [1982,eng] 50-3681
- Are arctic soft-sediment macrobenthic communities impoverished. Kendall, M.A., [1996,eng] 50-6720
- Benthic studies in the Laptev Sea. Schmid, M.K., et al., [1995,eng] 50-2087
- Bottom biocoenoses of the Laptev Sea and adjacent areas. Sirenko, B.I., et al., [1995,eng] 50-2088
- Boundary layer characteristics of the continental margin of the western Barents Sea. Thomsen, L., et al., [1994,eng] 50-1245
- Brittle star fauna biomass in the northeastern Barents Sea. Piepenburg, D., et al., [1996,eng] 50-6719
- Centrifuge modeling and numerical simulation of ice scour. Yang, Q.S., et al., [1996,eng] 50-5936
- Characteristics of sound reflected from sea ice. Aleksandrov, I.A., et al., [1995,eng] 50-3153
- Cold bottom water in the southern Laptev Sea. Churn, V.N., et al., [1995,eng] 50-2076
- Computer simulation of arctic shelf freezing during the Pleistocene. Sigunov, I.U.A., et al., [1995,eng] 50-6582
- Contemporary status of bottom fauna in the Chernaya Bay (Novaya Zemlya Archipelago). Matishov, G.G., et al., [1996,eng] 50-4147
- Cyclic direct simple shear testing of a Beaufort Sea clay. McCarron, W.O., et al., [1995,eng] 50-579
- Distinct element modelling of seabed-ice rubble interaction. Evgin, E., et al., [1993,eng] 50-5597
- Distribution and biomass of Greenland shelf epibenthic megafauna. Piepenburg, D., et al., [1996,eng] 50-5045
- Geological investigations on the Novosibirsk Islands. Paech, H.J., [1995,eng] 50-2107
- Geological structure of the Laptev Ocean shelf. Kim, V.I., et al., [1995,eng] 50-2108
- Geometry and genesis of the glacialic sediments in the southern Barents Sea. Vorren, T.O., et al., [1990,eng] 50-928
- Geotechnical design of the Baydaratskaya Bay pipeline crossing. Oswell, J.M., et al., [1995,eng] 50-177
- Glacial geomorphic features in the northern Barents Sea. Solheim, A., et al., [1990,eng] 50-927
- Glacially-influenced sedimentation on the Hebridean slope. Stoker, M.S., [1990,eng] 50-933
- Glacially-influenced Yakutaga Formation on Middleton I. Eyles, C.H., et al., [1990,eng] 50-934
- Glacimarine sediments from the Celtic Sea. Scourse, J.D., et al., [1990,eng] 50-932
- Ice drift reconstructions from ice rafted coal fragments. Bischof, J., et al., [1990,eng] 50-926
- Impact of iceberg scouring on polar benthic habitats. Gutt, J., et al., [1996,eng] 50-6567
- Influence of ocean dredging on Barents Sea biota. Matishov, G.G., et al., [1995,eng] 50-3062
- Interference fringes from Bering Sea sonar images. Huggert, Q.J., et al., [1992,eng] 50-4250
- Marine geophysical investigations in the Laptev Sea and the western part of the East Siberian Sea. Roesser, H.A., et al., [1995,eng] 50-2106
- Marine ice bottom gouging: some mechanisms and an approach to depth evaluation. Riabinin, V.E., et al., [1995,eng] 50-6314
- Mass movements in glaciomarine sediments on the Barents Sea continental slope. Kuvaas, B., [1996,eng] 50-5321
- Measurement of seismo-acoustic ocean-bottom properties in the high Arctic. Dosso, S.E., et al., [1995,eng] 50-1837
- Mechanisms of ice gouging. Kioka, S., et al., [1995,eng] 50-194
- Megabenthic communities in the waters around Svalbard. Piepenburg, D., et al., [1996,eng] 50-6722
- Metabolism of deep-sea sponges in the Greenland-Norwegian Sea. Witte, U., et al., [1996,eng] 50-6613
- Methane plumes near Bear Island, Barents Sea. Lammers, S., et al., [1995,eng] 50-748
- Mollusc population dynamics on the antarctic shelf ocean bottom. Brey, T., et al., [1993,eng] 50-3395
- Nearshore geotechnical and environmental properties in arctic regions. Clausner, J.E., et al., [1978,eng] 50-3941
- Numerical simulations of topographic Rossby waves along the East Greenland front. Maslowski, W., [1996,eng] 50-5260
- Oceanic methane hydrates: a "frontier" gas resource. Max, M.D., et al., [1996,eng] 50-4799
- Pipeline stability in an ice-scoured seabed. Clark, J.I., et al., [1990,eng] 50-100
- Possibility of subsea cryolithogenesis. Shpolianskaia, N.A., [1990,rus] 50-1627
- Possible consequences of glacially induced groundwater flow. Forsberg, C.F., [1996,eng] 50-5325
- Possible influence of glacial eustasy on antarctic shelf stratigraphy. Bartek, L.R., et al., [1996,eng] 50-4823
- Quantification of Barents Sea Pleistocene bottom erosion. Rasmussen, E., et al., [1996,eng] 50-5311
- Russian-German cooperation: Laptev Sea system. Kassens, H., ed, et al., [1995,eng] 50-2059
- Scandinavian Pleistocene tectonic correlations. Riis, F., [1996,eng] 50-5323
- Sea floor morphology and glacial history of the Barents Sea. Solheim, A., et al., [1988,eng] 50-887
- Sea ice induced gouging of the sea floor. Weeks, W.F., et al., [1995,eng] 50-6302
- Sea ice scouring on the inner shelf of the southeastern Canadian Beaufort Sea. Héquette, A., et al., [1995,eng] 50-1830
- Seismic reflection data from the Fram Strait. Jokat, W., et al., [1995,eng] 50-2541
- Seismic reflection results from an ice island over the arctic continental shelf. Cox, T.P., et al., [1990,eng] 50-3763
- Shelf to the fore as Chukchi opens up. [1988,eng] 50-4968
- Slope valleys in glaciomarine sediments of the Gulf of Alaska. Carlson, P.R., et al., [1990,eng] 50-922
- Southwest Pacific paleoceanography and development of the East Antarctic Ice Sheet. Flower, B.P., et al., [1995,eng] 50-2609
- Stability of subglacial, fine-grained sediments in a subarctic estuary. Amos, C.L., et al., [1996,eng] 50-4044
- Structural pattern and tectonic history of the Laptev Sea region. Drachev, S.S., et al., [1995,eng] 50-2105
- Submerged terraces in the Barents Sea. Lebesbye, E., et al., [1996,eng] 50-4876
- Surprising success for Arctic lease sale. [1988,eng] 50-4967
- Thermal rejuvenation of the Yermak Plateau. Okay, N., et al., [1994,eng] 50-4249
- Trophic structure of the benthos of the Lena polynya. Gukov, A.I.U., [1995,eng] 50-2090
- U.S.G.S. Geotechnical Investigation—Beaufort Sea, Alaska, 1979, Vol.1. Bruggers, D.E., et al., [1979,eng] 50-3313
- See [also]: Bottom sediment; Bottom topography
- Ocean currents**
- 1993 biennial report. University of Washington. College of Ocean & Fisheries Science. Applied Physics Laboratory, [1993,eng] 50-5203
- ADCP-referenced geostrophic circulation in the Bering Sea basin. Cokelet, E.D., et al., [1996,eng] 50-6635

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- Altimetry of North Atlantic subpolar current variations. White, M.A., et al. [1995,eng] 50-2778
- Anatomy of the Arctic Frontal Zone in the Greenland Sea. van Aken, H.M., et al. [1995,eng] 50-573
- Antarctic bottom water formation and the global cadmium to phosphorus relationship. Frew, R.D., [1995,eng] 50-752
- Antarctic circumpolar wave in surface pressure, wind, temperature and sea-ice extent. White, W.B., et al. [1996,eng] 50-4213
- Antarctic ice sheet melting in the southeast Pacific. Jacobs, S.S., et al. [1996,eng] 50-5458
- Antarctic jets. Burkov, V.A., [1994,eng] 50-865
- Application of satellite visible band data to high latitude oceans. Ahlén, K., et al. [1989,eng] 50-3934
- Arctic and environmental change. Wadhams, P., ed, et al. [1995,eng] 50-5226
- Arctic buoys send data around the world. [1992,eng] 50-6094
- Arctic Ocean deep water masses in the western Iceland Sea. Buch, E., et al. [1996,eng] 50-5856
- Arctic Ocean ice and water transport during 1946-1988. Proshutinskiy, A.I., et al. [1995,eng] 50-6313
- Arctic Ocean radioactive isotope distribution and transport. Scholten, J.C., et al. [1995,eng] 50-4563
- Arctic oceanography: marginal ice zones and continental shelves. Smith, W.O., Jr., ed, et al. [1995,eng] 50-1159
- Arctic oceanography: the path of North Atlantic Deep Water. [1994,eng] 50-976
- Atlantic Ocean sedimentary evidence for Pleistocene ice rafting. Robinson, S.G., et al. [1995,eng] 50-1110
- Atlantic water in the arctic basin. 2. Circulation. Dmitriev, N.E., et al. [1995,eng] 50-6549
- Atmosphere-surface interactions over polar oceans and heterogeneous surfaces. Vihma, T., [1995,eng] 50-4035
- Benthic foraminiferal assemblages and sea ice drift in the Arctic Ocean. Wollenburg, J., [1995,ger] 50-2443
- Biological processes on arctic continental shelves: ice-ocean-biotic interactions. Grebmeier, J.M., et al. [1995,eng] 50-1166
- Chemical oceanography of the Arctic and its shelf seas. Anderson, L.G., [1995,eng] 50-1164
- Circulation and transport of water along the western Weddell Sea margin. Muench, R.D., et al. [1995,eng] 50-568
- Circulation and water mass modifications along the Nansen Basin slope. Schauer, U., et al. [1995,eng] 50-2074
- Circulation in the Bering Sea basin observed by satellite-tracked drifters: 1986-1993. Stabenov, P.J., et al. [1994,eng] 50-2856
- Clay mineral signature of the NW Atlantic Boundary Undercurrent. Fagel, N., et al. [1996,eng] 50-4822
- Clay minerals as sediment source indicators, Russian Arctic. Naidu, A.S., et al. [1995,eng] 50-1120
- Climate dynamics and global change. Lindzen, R.S., [1994,eng] 50-5242
- Competing roles of heat and freshwater flux in forcing thermohaline oscillations. Pierce, D.W., et al. [1995,eng] 50-598
- Decadal oscillations driven by the annual cycle in a zonally-averaged coupled ocean-ice model. Yang, J.Y., et al. [1996,eng] 50-3069
- Deep water distillation. Boyle, E., [1996,eng] 50-5152
- Deep water formation in the Greenland Sea. Pawlowicz, R.A., et al. [1996,eng] 50-6669
- Dense water formation on arctic shelves. Gawarkiewicz, G., et al. [1996,eng] 50-6671
- Direct evidence for northward flow on the northwestern Bering Sea shelf. Overland, J.E., et al. [1996,eng] 50-5266
- Direct measurements of transport and water properties through the Bering Strait. Roach, A.T., et al. [1995,eng] 50-566
- Disturbances in the thermohaline structure of the near-surface ocean layer in the wake of an iceberg. Abaza, V.P., et al. [1995,rus] 50-4202
- DOC storage in arctic seas: the role of continental shelves. Walsh, J.J., [1995,eng] 50-1165
- Doppler observations of Bering Sea ice edge ocean circulation. Okkonen, S., et al. [1995,eng] 50-1032
- Dynamics of the Antarctic Circumpolar Current. Ivchenko, V.O., et al. [1996,eng] 50-5157
- Earth rotation, ocean circulation and paleoclimate. Möner, N.A., [1995,eng] 50-6063
- Eastern Canadian Arctic at ca. 6 ka BP: a time of transition. Williams, K.M., et al. [1995,eng] 50-1450
- Ecology of fjords and coastal waters. Skjoldal, H.R., ed, et al. [1995,eng] 50-4128
- Eddy formation in the polar frontal zone of the Barents Sea. Kostianoi, A.G., et al. [1992,rus] 50-1262
- Effect of local wind on the dynamics of a Norwegian fjord. Leth, O.K., [1995,eng] 50-4135
- Eolian dust in deep sea sediments from arctic pack ice. Pfirman, S., et al. [1989,eng] 50-5408
- European paleoclimatic changes based on coleopteran analysis. Coope, G.R., et al. [1995,eng] 50-6565
- European paleoclimatic variations inferred from Greenland ice core isotope analysis. Hafidason, H., et al. [1995,eng] 50-2528
- Expanded record of Quaternary oceanographic change: Amerasian Arctic Ocean. Ishman, S.E., et al. [1996,eng] 50-3388
- Exploring the Barents Sea polar front. Gawarkiewicz, G., et al. [1996,eng] 50-6672
- Fine resolution numerical model of the Iceland-Farø front with open boundary conditions. Griffiths, C., [1995,eng] 50-571
- Flow trajectories in the Bering Sea: evidence for chaos. Reed, R.K., et al. [1990,eng] 50-4730
- Flux of dense cold overflow water southeast of Iceland. Saunders, P.M., [1996,eng] 50-3145
- Foraminiferal evidence for Greenland environmental change. Jennings, A.E., et al. [1995,eng] 50-6079
- Formation and discharge of deep and bottom water in the northwestern Weddell Sea. Fahrbach, E., et al. [1995,eng] 50-670
- Formation and evolution of the surface mixed layer and halocline of the Arctic Ocean. Rudels, B., et al. [1996,eng] 50-5261
- Freshwater impact on Hudson Bay ecosystems under sea ice, pt.1. Ingram, R.G., et al. [1996,eng] 50-4019
- Freshwater impact on Hudson Bay ecosystems under sea ice, pt.2. Legendre, L., et al. [1996,eng] 50-4020
- Freshwater impact on Hudson Bay ecosystems under sea ice, pt.3. Fortier, L., et al. [1996,eng] 50-4021
- Frontal signals east of Iceland from the GEOSAT altimeter. Robinson, A.R., et al. [1989,eng] 50-4707
- Geoelectromagnetic monitoring of water discharge in the Bering Strait. Shneer, V.S., et al. [1995,eng] 50-3831
- Geostrophic circulation of water in the vicinity of the meteorological vessel "M" in March-April 1987. Korodkov, S.V., [1992,rus] 50-1263
- Glacial transition towards the Mediterranean during the Middle and Late Pleistocene. Arkhipov, S.A., et al. [1995,eng] 50-1799
- Global environmental change: the northern North Atlantic. Schäfer, P., et al. [1995,eng] 50-745
- Greenland ice sheet climate record of the past 16,500 years. Stuiver, M., et al. [1995,eng] 50-2015
- Heat budgets of the Arctic Ocean and Nordic Seas. Simonsen, K., et al. [1996,eng] 50-4298
- Hemispheric climate relations revealed by bottom sediment/ice core correlations. Charles, C.D., et al. [1996,eng] 50-6632
- High resolution observations of Weddell Sea surface currents using ERS-1 SAR sea-ice motion vectors. Thomas, J.P., et al. [1995,eng] 50-1819
- Ice drift reconstructions from ice rafted coal fragments. Bischof, J., et al. [1990,eng] 50-926
- Ice-ocean seasonal cycle and climate response in Hudson Bay. Soucier, F.J., et al. [1995,eng] 50-5931
- Inertial currents in the Beaufort Sea: observations of response to wind and shear. Merrifield, M.A., et al. [1996,eng] 50-4299
- Interdecadal climate variability in the subpolar North Atlantic. Wohleben, T.M.H., et al. [1995,eng] 50-2743
- Investigation of the general circulation of the Arctic Ocean using an isopycnal model. Holland, D.M., et al. [1996,eng] 50-3822
- Isotope analysis of Bering Sea Pleistocene sediment variations. Nakatsuka, T., et al. [1995,eng] 50-3002
- JAMSTEC coupled model of arctic sea-ice and ocean. Kakuta, S., et al. [1996,eng] 50-4478
- Late Eocene-Oligocene dinoflagellate provincialism in the North Atlantic Ocean. Damassa, S.P., et al. [1994,eng] 50-898
- Late Quaternary paleoceanography of the Eurasian Basin, Arctic Ocean. Cronin, T.M., et al. [1994,eng] 50-658
- Laurentide ice sheet oscillations as cause of Atlantic Ocean Heinrich events. MacAyeal, D.R., [1993,eng] 50-2869
- Local circulation in a fjord and exchange of water with the adjacent ocean. Asplin, L., [1995,eng] 50-4134
- Maintaining the thermohaline circulation. Mauritzen, C., et al. [1996,eng] 50-6670
- Meltwater event in the North Atlantic during last glacial maximum. Seidov, D., et al. [1996,eng] 50-6217
- Modeling climatic sensitivity of European marginal seas. Backhaus, J.O., [1996,eng] 50-4022
- Modelling arctic climate change. Cattle, H., et al. [1995,eng] 50-5227
- Monitoring Termination II at high latitude: anomalies in the planktic foraminiferal record. Bauch, H.A., [1996,eng] 50-5223
- Moraine bank ground-line process during coastal Maine deglaciation. Hunter, L.E., et al. [1996,eng] 50-6532
- Movement of ACC eddies at the eastern boundary of the Weddell Gyre. Guretskii, V.V., et al. [1994,eng] 50-337
- Movement of Laptev Sea shelf waters during the TRANSDRIFT II Expedition. Hass, H.C., et al. [1995,eng] 50-2078
- New insights on large-scale oceanography in Fram Strait: the West Spitsbergen Current. Gascard, J.C., et al. [1995,eng] 50-1163
- North Atlantic fossils and Heinrich events. Rahman, A., [1995,eng] 50-559
- North Atlantic paleoclimatic effects on primary productivity. Versteegh, G.J.M., et al. [1996,eng] 50-6620
- North Sea paleoenvironments during the last deglaciation. Knudsen, K.L., et al. [1996,eng] 50-6534
- Norwegian Sea Pleistocene ice-core indicators of climatic change. Sejrup, H.P., et al. [1995,eng] 50-6564
- Numerical model simulation of a summer reversal of the Beaufort gyre. Preller, R.H., et al. [1989,eng] 50-4706
- Numerical modelling of North Atlantic Quaternary sedimentation. Haupt, B.J., et al. [1995,eng] 50-750
- Numerical simulations of topographic Rossby waves along the East Greenland front. Maslowski, W., [1996,eng] 50-5260
- Numerical study of the circulation of the Bering Sea basin and exchange with the North Pacific Ocean. Overland, J.E., et al. [1994,eng] 50-2855
- Ocean thermohaline circulations compared. Yu, E.F., et al. [1996,eng] 50-5153
- Oceanographic conditions of Murman coastal biocenoses. Boisov, V.D., et al. [1995,eng] 50-4138
- Oil spill risks for Copper River Delta in Alaska. Christensen, F.T., et al. [1996,eng] 50-5556
- Oil spills in open and ice-infested waters: a comparative need for data on water currents. Venkatesh, S., [1995,eng] 50-5932
- On the climatological mean circulation over the eastern Bering Sea shelf. Reed, R.K., et al. [1996,eng] 50-6201
- Origin of the arctic driftwood—a dendrochronological study. Eggertsson, Ö., [1994,eng] 50-3851
- Origin of the driftwood on the coasts of Iceland: a dendrochronological study. Eggertsson, Ö., [1993,eng] 50-4771
- Outflow of dense water from the Storfjord in Svalbard: a numerical model study. Jungclauss, J.H., et al. [1995,eng] 50-2777
- Outflow of Lena River water to the Laptev Sea. Golovin, P.N., et al. [1995,eng] 50-2075
- Paleoceanographic import of Norwegian Sea sediment stratigraphy. Rasmussen, T.L., et al. [1996,eng] 50-5222
- Paleoclimatic CO₂ record related to changes in oceanic thermohaline circulation. Figge, R.A., et al. [1995,eng] 50-1149
- Palmer ecological research program. Smith, R.C., et al. [1995,eng] 50-5944
- Past and present oceanic energy balance patterns. Newell, R.E., et al. [1989,eng] 50-5409
- Peculiarities of diatom thanatocenoses formation in the sediments of the Eurasian arctic seas. Poliakova, E.I., [1995,eng] 50-2536
- Physical and geochemical properties across the Atlantic/Pacific water mass front in the southern Canadian Basin. McLaughlin, F.A., et al. [1996,eng] 50-2845
- Physical oceanography of fjord-coast systems in Norway. Svendsen, H., [1995,eng] 50-4132
- Plate tectonics and climate change in the Cenozoic. Eldholm, O., et al. [1994,eng] 50-896
- Plume of the Yukon River in relation to the oceanography of the Bering Sea. Dean, K.G., et al. [1989,eng] 50-3933
- Pollution distribution and hydrographic variability of the Kara Sea. Pavlov, V.K., et al. [1995,eng] 50-4557
- Preconditioning the Greenland Sea for deep convection: ice formation and ice drift. Visbeck, M., et al. [1995,eng] 50-567
- Radionuclide tracer profiles on Arctic Ocean ice islands. Smith, J.N., et al. [1995,eng] 50-4560
- Rapid climatic shifts during isotope stages 2-4 in the polar North Atlantic. Dokken, T.M., et al. [1996,eng] 50-6105
- Real-time operational forecasting on shipboard of the Iceland-Faeroe frontal variability. Robinson, A.R., et al. [1996,eng] 50-4742
- Release of brine-enriched shelf water from Storfjord into the Norwegian Sea. Schauer, U., [1995,eng] 50-574
- Resolved: the Arctic controls global climate change. Alley, R.B., [1995,eng] 50-1167
- Role of the Bering Strait in controlling North Atlantic ocean circulation and climate. Shaffer, G., et al. [1994,eng] 50-3769
- Role of the large-scale Arctic Ocean circulation in the transport of contaminants. Schlosser, P., et al. [1995,eng] 50-4556
- Satellite altimetry and FRAM model of the southern ocean. Snaith, H.M., [1994,eng] 50-1510
- Satellite radar survey of Japan Sea ice processes. Martin, S., et al. [1995,eng] 50-1810
- Satellite studies of pollution in the Barents and Kara seas. Kögeler, J., et al. [1995,eng] 50-4136
- Scavenging rates affecting Arctic Ocean radionuclide distributions. Cochran, J.K., et al. [1995,eng] 50-4562
- Sea of Okhotsk near-freezing dichothermal layer variations. Yang, J.Y., et al. [1996,eng] 50-6219
- Seafloor-tethered sub-ice vertical acoustic array. Stevenson, J.M., et al. [1994,eng] 50-5173
- Seasonal simulation of the southern ocean coupled ice-ocean system. Häkkinen, S., [1995,eng] 50-2113
- Sedimentation and mixing rates of radionuclides in Barents Sea sediments off Novaya Zemlya. Smith, J.N., et al. [1995,eng] 50-4561
- Selected aspects of the physical oceanography and particle fluxes in fjords of northern Norway. Wassmann, P., et al. [1996,eng] 50-5571
- Simulation of the mixed-layer circulation in the Arctic Ocean. Holland, D.M., et al. [1996,eng] 50-2843
- Simulation of the seasonal arctic sea-ice cover with a dynamic thermodynamic sea-ice model. Holland, D.M., et al. [1993,eng] 50-5186
- Sketch of hydrographic structure and circulation in the waters near Wilkes Land, Antarctica. Miao, Y.T., et al. [1989,chi] 50-6765
- Small-scale physical processes in the Arctic Ocean. Padman, L., [1995,eng] 50-1162
- Southern ocean Pleistocene water mass circulation variations. Diester-Haass, L., et al. [1996,eng] 50-3389
- Spectrometry of Norwegian Sea water radioactive isotopes. Moran, S.B., et al. [1995,eng] 50-1186
- Status of a Weddell Sea foraminifer. Berberich, D., [1996,ger] 50-3867
- Study of the surface circulation to the north of Bransfield Strait, Antarctica. de Souza, R.B., [1992,spa] 50-6663
- Temperature variability beneath Ronne Ice Shelf, Antarctica, from thermistor cables. Nicholls, K.W., [1996,eng] 50-2846
- Thermohaline characteristics of the shelf fronts in the western Bering Sea. Verkhunov, A.V., [1995,eng] 50-2533
- Thermohaline circulation of the Arctic Ocean and the Greenland Sea. Rudels, B., [1995,eng] 50-5234
- Thermohaline circulation of the Arctic Ocean. Poliakov, I.V., et al. [1995,rus] 50-4118

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Oceanography

- Topographic influence on the flow field off Lofoten-Vesterålen. Orvik, K.A., et al. [1995,eng] 50-4133
- Transfer of European coastal pollution to the Arctic: radioactive tracers. Dahlgard, H., [1995,eng] 50-1136
- Transfer of reprocessing wastes from north-west Europe to the Arctic. Kershaw, P., et al. [1995,eng] 50-4559
- Turbulence in the statically unstable oceanic boundary layer under arctic leads. McPhee, M.G., et al. [1996,eng] 50-4297
- Variations in Atlantic Ocean surface paleoceanography. Sarnthein, M., et al. [1995,eng] 50-3003
- Vertical mixing processes in the western Weddell Sea. Robertson, R., et al. [1995,eng] 50-569
- Vertical structure of the currents on the Newfoundland shelf. Narayanan, S., et al. [1995,eng] 50-5934
- Water masses and circulation around the South Shetland Islands in summer. Yang, T.Z., et al. [1989,chi] 50-6764
- Weddell-I ice drift station in Antarctica. Mel'nikov, I.A., [1995,eng] 50-6689
- What really ended the last ice age? Scientists say the oceans did it. [1992,eng] 50-720
- Winter ice in Okhotsk Sea and spring and summer climate in north Japan. Yamada, Y., [1996,jpn] 50-5903
- See [also]: Tidal currents
- Ocean environments**
- Arctic wasteland: a perspective on arctic pollution. Davis, N., [1996,eng] 50-5838
- Construction of the Okhotsk frozen-sea observation tower. Sato, Y., et al. [1996,jpn] 50-5873
- Detailed morphometric characteristics of the Barents Sea. Dzhenik, S.L., [1992,rus] 50-1266
- Removal of hydrocarbons from the *Bahia Paraíso*. Arangio, I.A., [1994,eng] 50-4272
- Summer plankton beneath the McMurdo Ice Shelf at White I. Knox, G.A., et al. [1996,eng] 50-3403
- Ocean tides**
- See [also]: Tides
- Ocean waves**
- Characteristics of frequency spectra of wind waves in the presence of ice floes. Hayakawa, T., et al. [1996,jpn] 50-5881
- Countermeasure for ice floes overtopping over breakwater due to wave action. Sasajima, T., et al. [1996,jpn] 50-5883
- Engineering repercussions of ocean wave propagation in ice-infested seas. Squire, V.A., [1995,eng] 50-176
- Fatigue reliability calculation for structure members of offshore fixed platform. Fang, H.C., et al. [1995,eng] 50-218
- Ice surface oscillation measurements on SIMI using strain, heave and tilt sensors. Wadhams, P., et al. [1995,eng] 50-6306
- Impact ice load acting on flat plate due to wave action. Hanada, M., et al. [1996,jpn] 50-5880
- Impingement of surface waves on the edge of compressed ice. Bukatov, A.E., et al. [1995,eng] 50-4214
- In-situ* burning of Alaskan oils and emulsions. Buist, I., et al. [1996,eng] 50-5558
- Joint probability of environmental loads on marine structures. Liu, D.F., et al. [1995,eng] 50-196
- Laboratory tests of oil fate in cold water, ice and waves. Timco, G.W., et al. [1995,eng] 50-51
- Melting rates of brash ice in Arthur Harbor. Smith, N.D., et al. [1994,eng] 50-2222
- Model for spraying and three-dimensional icing on a stern trawler. Chung, K.K., et al. [1995,eng] 50-2955
- Of ocean waves and sea ice. Squire, V.A., et al. [1995,eng] 50-5241
- Response of a circular ice floe to ocean waves. Meylan, M.H., et al. [1996,eng] 50-5264
- Self-excited oscillations in ice floes and icebergs. Smirnov, V.N., et al. [1995,eng] 50-2946
- Surface wave diffraction at a system of cracks in the ice cover. Goldshtein, R.V., et al. [1995,eng] 50-2949
- Wave-pancake ice interactions. Shen, H.H., et al. [1994,eng] 50-2221
- Oceanographic ships**
- Arktis 1993; report on the field phase with examples of measurements. Brümmer, B., ed. [1993,eng] 50-4945
- Diversity of modern antarctic vessels. Mäkinen, E., et al. [1994,eng] 50-4280
- Planned NSF/UNOLS arctic research vessel for the United States arctic science community. Kristensen, D.H., et al. [1995,eng] 50-6312
- Research Vessel *Polar Duke*. [1987,eng] 50-3885
- Oceanographic surveys**
- 1993 biennial report. University of Washington. College of Ocean & Fisheries Science. Applied Physics Laboratory, [1993,eng] 50-5203
- ADCP-referenced geostrophic circulation in the Bering Sea basin. Cokelet, E.D., et al. [1996,eng] 50-6635
- Arctic buoys send data around the world. [1992,eng] 50-6094
- Arctic infrastructure—the need for dedicated Arctic research support. Pittenger, R.F., [1996,eng] 50-6676
- Arctic Ocean deep water masses in the western Iceland Sea. Buch, E., et al. [1996,eng] 50-5856
- Arctic oceanography: marginal ice zones and continental shelves. Smith, W.O., Jr., ed. et al. [1995,eng] 50-1159
- Arctic research vessel preliminary design report. University of Alaska. Institute of Marine Science, [1994,eng] 50-5437
- Arsenic pollutants in Pechora Sea sediments. Loring, D.H., et al. [1995,eng] 50-1829
- Behavior of mercury in seawater to the northwest of the Antarctic Peninsula. Ruan, Z., [1989,chi] 50-6774
- Benthic foraminiferal assemblages and sea ice drift in the Arctic Ocean. Wollenburg, J., [1995,ger] 50-2443
- Biological processes on arctic continental shelves: ice-ocean-biotic interactions. Grebmeier, J.M., et al. [1995,eng] 50-1166
- Buoy for all arctic seasons: the Ice-Ocean Environmental Buoy. Honjo, S.S., [1996,eng] 50-6673
- Chemical characteristics of water masses in the Bransfield Strait. Wang, Y.H., et al. [1989,chi] 50-6772
- Chemical oceanography of the Arctic and its shelf seas. Anderson, L.G., [1995,eng] 50-1164
- Chemistry of water and ice from Drake Passage and the Bellinghausen Sea. Turner, S.M., et al. [1995,eng] 50-1024
- Current water quality in Cook Inlet, Alaska, study. University of Alaska. Environment and Natural Resources Institute, [1995,eng] 50-4400
- Deep water formation in the Greenland Sea. Pawlowicz, R.A., et al. [1996,eng] 50-6669
- Depositional environment of the Laptev Sea shelf. Nürnberg, D., et al. [1995,eng] 50-940
- Detailed morphometric characteristics of the Barents Sea. Dzhenik, S.L., [1992,rus] 50-1266
- Differentiation of Ob and Yenisei waters in the Kara Sea by alkalinity and silicate. Stunzhas, P.A., [1995,eng] 50-6688
- DOC storage in arctic seas: the role of continental shelves. Walsh, J.J., [1995,eng] 50-1165
- Dynamic model of the pelagic ecosystem of the Kara Sea. Lebedeva, L.P., et al. [1995,eng] 50-3540
- Ecological investigations in the Bering Sea. Sapozhnikov, V.V., [1994,eng] 50-869
- Ecology of fjords and coastal waters. Skjoldal, H.R., ed. et al. [1995,eng] 50-4128
- Ecosystem dynamics of the Bering and Chukchi Seas. Tryban, A.V., [1995,eng] 50-3608
- Effect of local wind on the dynamics of a Norwegian fjord. Leth, O.K., [1995,eng] 50-4135
- Fifteen years of arctic acoustics and ice camps. Von der Heydt, K., et al. [1996,eng] 50-6667
- Fine structure at CTD stations of the First Chinese Southern Ocean Expedition. Fang, X.H., et al. [1989,chi] 50-6766
- Formation and discharge of deep and bottom water in the north-western Weddell Sea. Fahrbach, E., et al. [1995,eng] 50-670
- Global change research at Glacier Bay National Park. Powell, R.D., [1995,eng] 50-3731
- High basal melt rates in Pine Island Glacier. Jenkins, A., et al. [1994,eng] 50-2227
- Ice buoy tests of Barents Sea tidal motions. Pease, C.H., et al. [1995,eng] 50-2776
- Ice-edge hydrography between Elephant I. and the South Orkneys, summer 1988-1989. Figueiras, F.G., et al. [1990,spa] 50-5525
- Ice-mounted acoustic element localization system. Sotin, B.J., et al. [1994,eng] 50-5174
- Icebreakers transit Arctic for global climate studies. [1996,eng] 50-6677
- Latitude as a factor in the calculation of primary production. Platt, T., et al. [1995,eng] 50-4129
- Local circulation in a fjord and exchange of water with the adjacent ocean. Asplin, L., [1995,eng] 50-4134
- Marine ecology of the Laguna San Rafael (southern Chile): ice scour and opportunism. Davenport, J., [1995,eng] 50-1105
- Marine sedimentation rates as evidence of continental glaciation. Goldschmidt, P.M., [1995,eng] 50-1828
- Measurements of the underside topography of sea ice by moored subsea sonar. Melling, H., et al. [1995,eng] 50-160
- Measuring ocean parameters at extremes of temperature. Neal, G.W., et al. [1994,eng] 50-5180
- Mercury and plastic in suspended Arctic Ocean sediment. Jorjic, C.R., et al. [1995,eng] 50-1971
- New insights on large-scale oceanography in Fram Strait: the West Spitsbergen Current. Gascard, J.C., et al. [1995,eng] 50-1163
- Nuclear submarines and oceanography in the Arctic. DeLaca, T., et al. [1996,eng] 50-3931
- Nutrient cycle in the Bransfield Strait. Wang, Y.H., et al. [1989,chi] 50-6773
- Occurrence of sub-ice algal aggregations off northeast Greenland. Gutt, J., [1995,eng] 50-163
- Ocean Drilling Program in Fram Strait and prediction of ice-free conditions. Wadhams, P., et al. [1995,eng] 50-215
- Oceanic remote sensing and sea ice monitoring. Johannessen, J.A., ed. et al. [1994,eng] 50-1509
- Oceanic satellites in the Global Ocean Observing System. Sherman, J.W., III, [1993,eng] 50-4801
- Oceanographic conditions of Murman coastal biocoenoses. Bolisov, V.D., et al. [1995,eng] 50-4138
- Oceanographic expedition to the Amundsen and Bellingshausen Seas. Jacobs, S.S., et al. [1994,eng] 50-2225
- On the summer distribution of mesozooplankton in the Nansen Basin. Arctic Ocean. Mumm, N., [1991,ger] 50-3399
- Organic carbon in late Quaternary Arctic Ocean sediments. Schubert, C.J., [1995,ger] 50-2454
- Overview of the Arctic Ocean Expedition of 1991 (IAOE-91). Leck, C., et al. [1996,eng] 50-4312
- Paleomagnetic constraints on sedimentation rates in the eastern Arctic Ocean. Schneider, D.A., et al. [1996,eng] 50-6707
- Physical oceanography of fjord-coast systems in Norway. Svendsen, H., [1995,eng] 50-4132
- Phytoplankton seasonal bloom shift in Barents Sea ice. Strass, V.H., et al. [1996,eng] 50-6721
- Planned NSF/UNOLS arctic research vessel for the United States arctic science community. Kristensen, D.H., et al. [1995,eng] 50-6312
- Proceedings. China Symposium on Southern Ocean Expedition, 1st, Hangzhou, May, 1988. [1989,chi] 50-6763
- Prototype of a moored meteorological/oceanographic buoy for Terra Nova Bay. Gasparoni, F., et al. [1994,eng] 50-5183
- Relation between distribution of phytoplankton and sea water stability. Su, Y.F., [1989,chi] 50-6767
- Russian oceanographic expedition in the Kara Sea. Lisitsyn, A.P., et al. [1995,eng] 50-3530
- Russian-German cooperation: Laptev Sea system. Kassens, H., ed. et al. [1995,eng] 50-2059
- SARA, an autonomous underwater vehicle for researches in Antarctica. Papalia, B., et al. [1994,eng] 50-5181
- Satellite altimetry and FRAM model of the southern ocean. Snaith, H.M., [1994,eng] 50-1510
- Satellite mapping of algal blooms and sea ice in the North Sea and Ussemeer. Roozkrans, H., [1994,eng] 50-1517
- Satellite remote sensing of the Arctic Ocean and adjacent seas. Comiso, J.C., [1995,eng] 50-1160
- Sea ice field experiments in the Laptev Sea, 1976. Gorbunov, I.U., et al. [1995,eng] 50-2064
- Sea Ice Mechanics Initiative (SIMI) GPS position. O'Hara, S., et al. [1995,eng] 50-6285
- Seafloor-tethered sub-ice vertical acoustic array. Stevenson, J.M., et al. [1994,eng] 50-5173
- Seismic reflection data from the Fram Strait. Jokst, W., et al. [1995,eng] 50-2541
- Sketch of hydrographic structure and circulation in the waters near Wilkes Land, Antarctica. Miao, Y.T., et al. [1989,chi] 50-6765
- Spatial and temporal variability in southern ocean sea ice coverage. Stammerjohn, S.E., [1993,eng] 50-5520
- Study of the surface circulation to the north of Bransfield Strait, Antarctica. de Souza, R.B., [1992,spa] 50-6663
- Submersible remote controlled vehicles for glacier-ocean-sediment study. Dowdeswell, J.A., et al. [1996,eng] 50-4902
- Submersible ROBY is tested in Antarctica. Bono, R., et al. [1994,eng] 50-5182
- Subtidal and tidal currents in the vicinity of the Iceland-Faeroes front. Allen, J.T., [1995,eng] 50-159
- Taxonomic notes on recent benthic Foraminifera from Nansen Basin, Arctic Ocean. Wollenburg, J., [1992,ger] 50-3334
- Temporal changes in shelf water of the southern Ross Sea. Hellmer, H.H., et al. [1994,eng] 50-2692
- Thermohaline characteristics of the shelf fronts in the western Bering Sea. Verkhunov, A.V., [1995,eng] 50-2533
- Topographic influence on the flow field off Lofoten-Vesterålen. Orvik, K.A., et al. [1995,eng] 50-4133
- Transarctic acoustic propagation. Mikhalevsky, P.N., et al. [1995,eng] 50-6273
- Vertical light attenuation by phytoplankton absorption in the Greenland Sea. Dalloekken, R., et al. [1995,eng] 50-4131
- Vertical structure of the currents on the Newfoundland shelf. Narayanan, S., et al. [1995,eng] 50-5934
- Water masses and circulation around the South Shetland Islands in summer. Yang, T.Z., et al. [1989,chi] 50-6764
- Weddell-I ice drift station in Antarctica. Mel'nikov, I.A., [1995,eng] 50-6689
- Wind forcing of marine primary production in the northern atmospheric low-pressure belt. Sakshaug, E., et al. [1995,eng] 50-4130
- Witness the Arctic, vol.3, no.1. Arctic Research Consortium of the United States, [1996,eng] 50-3930
- Oceanography**
- 135,000-year Vostok SPECMAP common temporal framework. Sowers, T., et al. [1993,eng] 50-2867
- 1993 biennial report. University of Washington. College of Ocean & Fisheries Science. Applied Physics Laboratory, [1993,eng] 50-5203
- ²²²Ra as a tracer for shelf water in the Arctic Ocean. Van der Loeff, M.M.R., et al. [1995,eng] 50-4564
- ²²²Th as an indicator of particulate fluxes in the Kara Sea. Kuptsov, V.M., et al. [1995,eng] 50-3544
- Abundance and production of bacteria and viruses in the Bering and Chukchi Seas. Steward, G.F., et al. [1996,eng] 50-4158
- Acoustic response to variations of water and ice characteristics. Gavrilov, A.N., et al. [1995,eng] 50-5736
- Acoustic wave perturbations within the Barents Sea Polar Front. Lynch, J.F., et al. [1996,eng] 50-4590
- Acoustics probe sea-ice mechanics. Rajan, S.D., [1996,eng] 50-6675
- ADCP-referenced geostrophic circulation in the Bering Sea basin. Cokelet, E.D., et al. [1996,eng] 50-6635
- Aerial surveillance of oil sheen following the *Exxon Valdez* oil spill shoreline cleanup. Taft, D.G., et al. [1995,eng] 50-3919
- Aerosols composition over the Arctic Ocean. Shevchenko, V.P., et al. [1995,eng] 50-2061
- Airborne imaging microwave radiometer—part I: radiometric analysis. Collins, M.J., et al. [1996,eng] 50-4763
- Algorithm for simulating wave propagation through sea ice. Blackowiak, A.D., et al. [1995,eng] 50-1644
- Altimetry of North Atlantic subpolar current variations. White, M.A., et al. [1995,eng] 50-2778
- Analysis of spatial reverberation statistics in the central Arctic. LePage, K., et al. [1996,eng] 50-5191
- Anatomy of the Arctic Frontal Zone in the Greenland Sea. van Aken, H.M., et al. [1995,eng] 50-573
- Antarctic bottom topography and its representation on new bathymetric charts. Marova, N.A., [1993,rus] 50-4509

- Antarctic bottom water formation and the global cadmium to phosphorus relationship. Frew, R.D., [1995,eng] 50-752
- Antarctic ice sheet melting in the southeast Pacific. Jacobs, S.S., et al. [1996,eng] 50-5458
- Antarctic jets. Burkov, V.A., [1994,eng] 50-865
- Antarctic planktonic biomass seasonal variations. Skerratt, J.H., et al. [1995,eng] 50-1118
- Application of satellite visible band data to high latitude oceans. Ahlén, K., et al. [1989,eng] 50-3934
- Archive of digital data from the Defense Meteorological Satellite Program (DMSP). Kroehl, H.W., et al. [1994,eng] 50-5076
- Arctic buoys send data around the world. [1992,eng] 50-6094
- Arctic Centre news, 1993, No.2. [1993,eng] 50-3598
- Arctic Centre news, 1993, No.3. [1993,eng] 50-3599
- Arctic infrastructure—the need for dedicated Arctic research support. Pittenger, R.F., [1996,eng] 50-6676
- Arctic marine mammals as integrators and indicators of mercury in the Arctic. Wagemann, R., et al. [1995,eng] 50-881
- Arctic Ocean deep water masses in the western Iceland Sea. Buch, E., et al. [1996,eng] 50-5856
- Arctic Ocean dimethyl sulfide seasonal variability. Leck, C., et al. [1996,eng] 50-4313
- Arctic Ocean radioactive isotope distribution and transport. Scholten, J.C., et al. [1995,eng] 50-4563
- Arctic Ocean—a special natural cryogenic system. Danilov, I.D., [1996,rus] 50-6374
- Arctic oceanography; the path of North Atlantic Deep Water. [1994,eng] 50-976
- Arctic radioactive contamination from former Soviet Union sources. Bradley, D.J., [1992,eng] 50-5484
- Arctic research vessel preliminary design report. University of Alaska. Institute of Marine Science, [1994,eng] 50-5437
- Arctic science, engineering, and education—directory of awards: fiscal year 1994. United States. National Science Foundation, [1994,eng] 50-1553
- Arctic systems: natural environments, human actions, nonlinear processes. International Arctic Science Committee, [1995,eng] 50-5302
- Atlantic Ocean sedimentary evidence for Pleistocene ice rafting. Robinson, S.G., et al. [1995,eng] 50-1110
- Atlantic water in the arctic basin. 2. Circulation. Dmitriev, N.E., et al. [1995,eng] 50-6549
- Barents Sea biomass reaction to gas condensate pollution. Gorbacheva, E.A., et al. [1996,eng] 50-6581
- Barents Sea ice concentration from SSM/I data. Smith, D.M., [1996,eng] 50-6695
- Basis for statistical inferences in coastal injury assessment of *Exxon Valdez* oil spill. McDonald, L.L., et al. [1995,eng] 50-3922
- Benthic sediment hydrocarbon sources following the *Exxon Valdez* oil spill. Page, D.S., et al. [1995,eng] 50-3915
- Benthic studies in the Laptev Sea. Schmid, M.K., et al. [1995,eng] 50-2087
- Benthic-pelagic coupling in the Greenland-Norwegian Sea and its effect on the geological record. Graf, G., et al. [1995,eng] 50-747
- Biogenic composition of ice-rafted debris in Atlantic Ocean bottom sediment. van Kreveld, S.A., et al. [1996,eng] 50-5219
- Biogeochemistry of sediment diagenesis at Kara Sea-Yenisey River boundary layer. Lein, A.U., et al. [1995,eng] 50-3535
- Biological CO₂ pump in seasonally ice-covered waters. Legendre, L., [1996,eng] 50-6033
- Bottom biocoenoses of the Laptev Sea and adjacent areas. Sirenko, B.I., et al. [1995,eng] 50-2088
- Bottom sediment chemical composition of the Kara Sea and estuaries. Gurvich, E.G., et al. [1995,eng] 50-3545
- Boundary layer characteristics of the continental margin of the western Barents Sea. Thomsen, L., et al. [1994,eng] 50-1245
- Buoy for all arctic seasons: the Ice-Ocean Environmental Buoy. Honjo, S.S., [1996,eng] 50-6673
- Buoy installation and operation in Terra Nova Bay. Cucinotta, A., et al. [1994,eng] 50-4284
- C-band backscatter measurements of winter sea-ice in the Weddell Sea, Antarctica. Drinkwater, M.R., et al. [1995,eng] 50-1817
- Calculation of spectral albedo for a melt pond. Makshtas, A., et al. [1995,eng] 50-2066
- Case study in three-dimensional inverse methods: combining hydrographic, acoustic, and moored thermistor data in the Greenland Sea. Morawitz, W.M.L., et al. [1996,eng] 50-5167
- Catastrophic storm surges in the southern part of the Laptev Sea. Ashik, I.M., et al. [1995,eng] 50-2068
- Centrifuge modeling and numerical simulation of ice scour. Yang, Q.S., et al. [1996,eng] 50-5936
- Changes in North Atlantic deep-water formation associated with the Heinrich events. Maslin, M.A., [1995,eng] 50-638
- Chemical and toxicological evaluation of water quality following the *Exxon Valdez* oil spill. Neff, J.M., et al. [1995,eng] 50-3917
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995,eng] 50-1863
- Chemical composition of suspended sediments in the Lena River and its mixing zone. Gordeev, V.V., et al. [1995,eng] 50-2081
- Chernobyl fallout in Bering Sea sediments. Kusakabe, M., et al. [1988,eng] 50-4635
- Chlorophyll fluorescence in the Laptev Sea. Anoshkin, A.F., et al. [1995,eng] 50-2083
- Chlorophyll in the western Bering Sea. Mordasova, N.V., [1995,eng] 50-3605
- Circulation and transport of water along the western Weddell Sea margin. Muench, R.D., et al. [1995,eng] 50-568
- Circulation and water mass modifications along the Naassen Basin slope. Schauer, U., et al. [1995,eng] 50-2074
- Circulation in the Bering Sea basin observed by satellite-tracked drifters: 1986-1993. Siabeno, P.J., et al. [1994,eng] 50-2856
- Clay mineral signature of the NW Atlantic Boundary Undercurrent. Fagel, N., et al. [1996,eng] 50-4822
- Clay minerals as sediment source indicators, Russian Arctic. Naidu, A.S., et al. [1995,eng] 50-1120
- Cleansing role of clay-oil flocculation in shoreline sediments following an oil spill. Bragg, J.R., et al. [1995,eng] 50-3918
- Coastal environments of the western Kara and eastern Barents Seas. Pfirman, S.L., et al. [1995,eng] 50-4558
- Cold bottom water in the southern Laptev Sea. Churn, V.N., et al. [1995,eng] 50-2076
- Comment on paper by Blanchon et al. Clark, P.U., et al. [1995,eng] 50-1101
- Comparing simulated glacial climate and paleodata: a reexamination. Broccoli, A.J., et al. [1996,eng] 50-4398
- Comparison of monthly sea ice simulation models. Wu, X.R., et al. [1996,eng] 50-5451
- Competing roles of heat and freshwater flux in forcing thermohaline oscillations. Pierce, D.W., et al. [1995,eng] 50-598
- Composition and distribution of summer zooplankton in the Laptev Sea. Kosobokova, K., et al. [1995,eng] 50-2085
- Computer network database for paleoclimatological studies. Roof, S.R., et al. [1996,eng] 50-5712
- Contaminants in the arctic marine environment: priorities for protection. Macdonald, R.W., et al. [1996,eng] 50-5574
- Contemporary status of bottom fauna in the Chernaya Bay (Novaya Zemlya Archipelago). Matishov, G.G., et al. [1996,eng] 50-4147
- Cyclic direct simple shear testing of a Beaufort Sea clay. McCarron, W.O., et al. [1995,eng] 50-579
- Decadal oscillations driven by the annual cycle in a zonally-averaged coupled ocean-ice model. Yang, J.Y., et al. [1996,eng] 50-3069
- Deep water formation in the Greenland Sea. Pawlowicz, R.A., et al. [1996,eng] 50-6669
- Demonstration of operational sea-ice monitoring in the Baltic Sea with ERS-1 SAR. Herland, E.A., et al. [1995,eng] 50-1820
- Dense water formation on arctic shelves. Gawarkiewicz, G., et al. [1996,eng] 50-6671
- Deposition of organic matter in the Norwegian-Greenland Sea during the past 2.7 million years. Wagner, T., et al. [1995,eng] 50-2016
- Detailed morphometric characteristics of the Barents Sea. Dzheniuk, S.L., [1992,rus] 50-1266
- Differentiation of Ob and Yenisei waters in the Kara Sea by alkalinity and silicate. Stunzhas, P.A., [1995,eng] 50-6688
- Direct evidence for northward flow on the northwestern Bering Sea shelf. Overland, J.E., et al. [1996,eng] 50-5266
- Direct measurements of transport and water properties through the Bering Strait. Roach, A.T., et al. [1995,eng] 50-5566
- Distribution of oxygen and nutrients in the Laptev Sea in summer. Pivovarov, S.V., et al. [1995,eng] 50-2079
- Disposition of solar radiation in sea ice and the upper ocean. Ebert, E.E., et al. [1995,eng] 50-572
- Dissolved inorganic carbon in the Kara Sea and in the mouths of the Ob and Yenisey Rivers. Makkaveev, P.N., [1995,eng] 50-3533
- Distribution of bacterioplankton in the Kara Sea in September 1993. Mitsukevich, I.N., et al. [1995,eng] 50-3537
- Distribution of metals in Laptev Sea pore waters. Langner, C., [1995,eng] 50-2103
- Distribution of pesticide residues in arctic coastal ecosystems. Bright, D.A., et al. [1995,eng] 50-4747
- Distribution of river run-off in the Laptev Sea: the environmental effect. Dmitrenko, I.A., et al. [1995,eng] 50-2077
- Distribution of river water and suspended sediments in the river deltas of the Laptev Sea. Ivanov, V.V., et al. [1995,eng] 50-2080
- Distribution of trace elements in the Laptev Sea. Hölemann, J.A., et al. [1995,eng] 50-2098
- Doppler observations of Bering Sea ice edge ocean circulation. Okkonen, S., et al. [1995,eng] 50-1032
- Dynamic model of the pelagic ecosystem of the Kara Sea. Lebedeva, L.P., et al. [1995,eng] 50-3540
- Dynamics of the Antarctic Circumpolar Current. Ivchenko, V.O., et al. [1996,eng] 50-5157
- Earth rotation, ocean circulation and paleoclimate. Möner, N.A., [1995,eng] 50-6063
- Eastern Canadian Arctic at ca. 6 ka BP: a time of transition. Williams, K.M., et al. [1995,eng] 50-1450
- Ecological investigations in the Bering Sea. Sapozhnikov, V.V., [1994,eng] 50-869
- Eddy formation in the polar frontal zone of the Barents Sea. Kostianoi, A.G., et al. [1992,rus] 50-1262
- Effect of sea ice frost flowers on infrared surface observations. Martin, S., et al. [1996,eng] 50-5858
- Effect of sea ice on the salinity of antarctic bottom waters. Toggweiler, J.R., et al. [1995,eng] 50-336
- Effect of sea ice surface features on radar backscatter. Ulander, L.M.H., et al. [1995,eng] 50-1813
- Effects of floating ice cracks on propagation of flexural waves. Bukatov, A.E., et al. [1996,eng] 50-3410
- Effects of sea ice cover on atmospheric methane over the Sea of Okhotsk. Lammers, S., et al. [1995,eng] 50-1147
- Environmental factors influencing the biodegradation of petroleum hydrocarbons in cold seawater. Siron, R., et al. [1995,eng] 50-651
- Estimation of the autochthonous detritus flux through plankton communities of the Kara Sea. Lebedeva, L.P., et al. [1995,eng] 50-3541
- Evidence for Heinrich layers off Portugal (Tore Seamount: 39°N, 12°W). Lebreiro, S.M., et al. [1996,eng] 50-5220
- Evidence for Holocene seismic triggering of Arctic Ocean turbidites. Grantz, A., et al. [1996,eng] 50-6223
- Expanded record of Quaternary oceanographic change: Amerasian Arctic Ocean. Ishman, S.E., et al. [1996,eng] 50-3388
- Exploring the Barents Sea polar front. Gawarkiewicz, G., et al. [1996,eng] 50-6672
- Extraction of deformation descriptors from spaceborne radar ice motion products. Li, S., et al. [1995,eng] 50-1812
- Ferromanganese nodules of the Kara Sea. Bogdanov, I.U.A., et al. [1995,eng] 50-3547
- Fifteen years of arctic acoustics and ice camps. Von der Heydt, K., et al. [1996,eng] 50-6667
- Fine resolution numerical model of the Iceland-Farø front with open boundary conditions. Griffiths, C., [1995,eng] 50-571
- Fingerprinting hydrocarbons in the biological resources of the *Exxon Valdez* spill area. Bence, A.E., et al. [1995,eng] 50-3916
- Flow trajectories in the Bering Sea: evidence for chaos. Reed, R.K., et al. [1990,eng] 50-4730
- Flux of dense cold overflow water southeast of Iceland. Saunders, P.M., [1996,eng] 50-3145
- Fluxes of nutrients between benthic and planktic communities in the coastal zone of the Barents Sea. Kuznetsov, L.L., et al. [1995,eng] 50-3606
- Formation and discharge of deep and bottom water in the northwestern Weddell Sea. Fahrback, E., et al. [1995,eng] 50-670
- Formation and evolution of the surface mixed layer and halocline of the Arctic Ocean. Rudels, B., et al. [1996,eng] 50-5261
- Forward coupled-mode propagation modeling for coastal acoustic tomography. Chiu, C.S., et al. [1996,eng] 50-4589
- Freshwater impact on Hudson Bay ecosystems under sea ice, pt.1. Ingram, R.G., et al. [1996,eng] 50-4019
- Frontal signals east of Iceland from the GEOSAT altimeter. Robinson, A.R., et al. [1989,eng] 50-4707
- Geochemical analyses of *Exxon Valdez* oil spill. Bence, A.E., et al. [1996,eng] 50-6339
- Geochemical criterion for recognition of Pleistocene ice rafting events. Thomson, J., et al. [1995,eng] 50-1250
- Geochemistry of Lena River suspended sediments. Rachold, V., [1995,eng] 50-2095
- Geochemistry of volcanic ashes from Greenland Basin. Haase, K.M., et al. [1996,eng] 50-5267
- Geoelectromagnetic monitoring of water discharge in the Bering Strait. Shneer, V.S., et al. [1995,eng] 50-3831
- Glacial drainage towards the Mediterranean during the Middle and Late Pleistocene. Arkhipov, S.A., et al. [1995,eng] 50-1799
- Glacier-fed delta at a Barents Sea fjord. Laberg, J.S., et al. [1996,eng] 50-5921
- Glimpse beneath the ice. Plueddemann, A.J., [1996,eng] 50-6674
- Global environmental change: the northern North Atlantic. Schäfer, P., et al. [1995,eng] 50-745
- Gulf Canada probabilistic ice load model: operation and parametric sensitivity study. Watson, D.A., et al. [1995,eng] 50-1413
- Heat budgets of the Arctic Ocean and Nordic Seas. Simonsen, K., et al. [1996,eng] 50-4298
- Heat flux through Weddell Sea ice cover. Lytle, V.I., et al. [1996,eng] 50-5263
- Heuristic model for sea level rise due to the melting of small glaciers. Wigley, T.M.L., et al. [1995,eng] 50-1215
- High performance fiber optic hydrophones in the arctic environment. Yurek, A.M., et al. [1995,eng] 50-1211
- High precision ²³⁰Th and ²³⁸Th in the Norwegian Sea and Denmark by thermal ionization mass spectrometry. Moran, S.B., et al. [1995,eng] 50-2022
- High resolution observations of Weddell Sea surface currents using ERS-1 SAR sea-ice motion vectors. Thomas, J.P., et al. [1995,eng] 50-1819
- Holocene sediments of the Russian east-arctic seas. Iashin, D.S., et al. [1995,eng] 50-2104
- Hot ice could contaminate fish. Edwards, R., [1996,eng] 50-4205
- Hydrobiological research in the Lena polynya. Gukov, A.I.U., [1995,eng] 50-2089
- Hydrochemical characteristics of the Kara Sea. Makkaveev, P.N., et al. [1995,eng] 50-3532
- Ice buoy tests of Barents Sea tidal motions. Pease, C.H., et al. [1995,eng] 50-2776
- Ice dynamics in the south-western Laptev Sea as derived from ERS-1 SAR images. Kolatschek, J., et al. [1995,eng] 50-2063
- Ice rafting history from the Spitsbergen ice cap over the last 200 kyr. Lloyd, J.M., et al. [1996,eng] 50-5224
- Ice rafting sources for Younger Dryas detrital carbonate in the North Atlantic. Andrews, J.T., et al. [1995,eng] 50-1564

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- Ice-sheet growth and high-latitudes sea-surface temperature. Berger, A., et al. [1996,eng] 50-5862
- Ice-thermal regime at front deltas of rivers of the Laptev Sea. Nalimov, I.U.V., [1995,eng] 50-2070
- Iceberg observations and estimation of submarine ridges in the western Weddell Sea. Viehoff, T., et al. [1995,eng] 50-1818
- Iceberg-structure interaction probabilities for design. Fuglem, M., et al. [1996,eng] 50-5052
- Icebreakers transit Arctic for global climate studies. [1996,eng] 50-6677
- Identification of ice-rafted sediments in Atlantic Ocean bottom cores. Auffret, G.A., et al. [1996,eng] 50-5218
- Impact of iceberg scouring on polar benthic habitats. Gutt, J., et al. [1996,eng] 50-6567
- Improved detection of acoustic sources in ice-riding ocean environment. Zala, C.A., et al. [1995,eng] 50-1461
- Improved segmentation of sea ice in radiometric imagery. Simpson, J.J., et al. [1995,eng] 50-3494
- Inertial currents in the Beaufort Sea: observations of response to wind and shear. Merrifield, M.A., et al. [1996,eng] 50-4299
- Influence of ocean dredging on Barents Sea biota. Matishov, G.G., et al. [1995,eng] 50-3062
- Influence of runoff from land on the distribution of hydrologic characteristics of the Kara Sea. Burenkov, V.I., et al. [1995,eng] 50-3531
- Information booklet on the Arctic and Antarctic Research Institute (Russia). Mustafin, N.V., [1993,eng] 50-19
- Interaction between multiple line plumes: a model study with applications to leads. Ching, C.Y., et al. [1996,eng] 50-4408
- Interannual variability of sea-level pressure, sea-ice and runoff over the Arctic. Power, S.B., et al. [1991,eng] 50-5258
- Interference fringes from Bering Sea sonar images. Huggett, Q.J., et al. [1992,eng] 50-4250
- International Arctic Buoy Program Meeting in Oslo. Dugan, J.P., [1992,eng] 50-3932
- Investigation of the general circulation of the Arctic Ocean using an isopycnal model. Holland, D.M., et al. [1996,eng] 50-3822
- Investigations of air-sea interactions carried out during the TRANSDRIFT II Expedition. Afanas'eva, I.U., et al. [1995,eng] 50-2060
- Iron(II) in rainwater, snow, and surface seawater from a coastal environment. Zhuang, G.S., et al. [1995,eng] 50-979
- Isotope analysis of Arctic Ocean ice algae primary productivity. Hobson, K.A., et al. [1995,eng] 50-3359
- Isotope analysis of Bering Sea Pleistocene sediment variations. Nakatsuka, T., et al. [1995,eng] 50-3002
- Isotope tracking of Pleistocene ice-rafted debris. Gwiazda, R.H., et al. [1996,eng] 50-4399
- Isotopic chronologies of Chukchi Sea continental shelf sediment fluxes. Baskaran, M., et al. [1995,eng] 50-1805
- Japanese antarctic activities for 1995-1996. Tokyo. National Institute of Polar Research, [1996,eng] 50-2608
- Labile dissolved forms of heavy metals in the Kara Sea waters. Kravtsov, V.A., et al. [1995,eng] 50-3534
- Laptev Sea organic carbon surface sediments. Stein, R., et al. [1995,eng] 50-2097
- Last deglaciation of the Franz Victoria Trough, northern Barents Sea. Lubinski, D.J., et al. [1996,eng] 50-6535
- Late Quaternary paleoceanography of the Eurasian Basin, Arctic Ocean. Cronin, T.M., et al. [1994,eng] 50-658
- Late Quaternary paleoceanography of the mid- to outer continental shelf, East Greenland. Williams, K.M., et al. [1995,eng] 50-2810
- Late Younger Dryas to Holocene paleoenvironments of the southern Kattegat, Scandinavia. Conradsen, K., [1995,eng] 50-2861
- Latest Quaternary foraminifers and sediment transport in Perovskits Canyon, Bering Sea. Starratt, S.W., [1995,eng] 50-3347
- Laurentide ice sheet oscillations as cause of Atlantic Ocean Heinrich events. MacAyeal, D.R., [1993,eng] 50-2869
- Linking physical property records of Quaternary sediments to Heinrich events. Chu, J., et al. [1996,eng] 50-5221
- Lipid geochemistry of the Kara Sea bottom sediments. Beliaeva, A.N., et al. [1996,eng] 50-4867
- Long-term trend in sea ice thickness variation in the Arctic basin. Nagurnyi, A.P., [1995,eng] 50-5479
- Low-order model of the Heinrich event cycle. MacAyeal, D.R., [1993,eng] 50-2868
- Maintaining the thermohaline circulation. Mauritzen, C., et al. [1996,eng] 50-6670
- Marginal filter of the ocean. Lisitsyn, A.P., [1995,eng] 50-3542
- Marine geophysical investigations in the Laptev Sea and the western part of the East Siberian Sea. Roeser, H.A., et al. [1995,eng] 50-2106
- Marine record of deglaciation from the continental margin off Nova Scotia. Keigwin, L.D., et al. [1995,eng] 50-3001
- Mathematical model of pollution vectors in the arctic basin. Kravtsov, V.F., et al. [1996,eng] 50-3412
- Measurement of seismo-acoustic ocean-bottom properties in the high Arctic. Dosso, S.E., et al. [1995,eng] 50-1837
- Meltwater event in the North Atlantic during last glacial maximum. Seidov, D., et al. [1996,eng] 50-6217
- Mesoplankton in the east Kara Sea and the Ob and Yenisey River estuaries. Vinogradov, M.E., et al. [1995,eng] 50-3539
- Mesoplankton of the west Kara Sea and the Baidara Bay. Vinogradov, M.E., et al. [1995,eng] 50-3538
- Mesoscale-fine structure relationship in antarctic ocean currents. Shapiro, G.I., et al. [1994,eng] 50-866
- Meteorological support for navigation along the Northern Sea Route. Kondrat'ev, K.I.A., et al. [1994,eng] 50-648
- Methane plumes near Bear Island, Barents Sea. Lammers, S., et al. [1995,eng] 50-748
- Model of drag forces on sea ice bottom surfaces. Pite, H.D., et al. [1995,eng] 50-2740
- Modeling climatic sensitivity of European marginal seas. Backhaus, J.O., [1996,eng] 50-4022
- Modeling the heating and melting of sea ice through light absorption by microalgae. Zeebe, R.E., et al. [1996,eng] 50-2844
- Modeling the influence of ice on sea level variations in the Baltic Sea. Zhang, Z.H., et al. [1995,eng] 50-6758
- Modeling the surface heat flux response to long-lived SST anomalies in the North Atlantic. Power, S.B., et al. [1995,eng] 50-639
- Mollusc population dynamics on the antarctic shelf ocean bottom. Brey, T., et al. [1993,eng] 50-3395
- Monitoring Termination II at high latitude: anomalies in the planktic foraminiferal record. Bauch, H.A., [1996,eng] 50-5223
- Movement of Laptev Sea shelf waters during the TRANSDRIFT II Expedition. Hass, H.C., et al. [1995,eng] 50-2078
- Natural and technogenic water and sediment supply to the Laptev Sea. Alabian, A.M., et al. [1995,eng] 50-2094
- New geography of the polar regions: synthesis and perspectives. Orombelli, G., ed. et al. Atti del Convegno della Società Geografica Italiana, Roma, 21-22 Novembre 1991 (Proceedings of the Italian Geographical Society Conference, Rome, 21-22 November 1991), [1994,ita] 50-2817
- No evidence for extreme, long term warming in early Pliocene sediments of the Southern Ocean. Burckle, L.H., et al. [1996,eng] 50-6627
- North Atlantic paleoclimatic effects on primary productivity. Versteegh, G.J.M., et al. [1996,eng] 50-6620
- North Sea lithostratigraphy related to glacial isostasy. Ekman, S.R.R., [1995,eng] 50-6560
- North Sea paleoenvironments during the last deglaciation. Knudsen, K.L., et al. [1996,eng] 50-6534
- North-East Water polynya: satellite observations summer 1992 and 1993. Gudmandsen, P., et al. [1995,eng] 50-1814
- Norway enters exploration groups with improved licensing terms. [1995,eng] 50-2537
- Norwegian Sea Pleistocene ice-core indicators of climatic change. Sejrup, H.P., et al. [1995,eng] 50-6564
- NSF: ocean sciences, arctic & global change research. Gross, M.G., [1991,eng] 50-719
- Nuclear submarines and oceanography in the Arctic. DeLaca, T., et al. [1996,eng] 50-3931
- Numerical model simulation of a summer reversal of the Beaufort gyre. Preller, R.H., et al. [1989,eng] 50-4706
- Numerical modelling of North Atlantic Quaternary sedimentation. Haupt, B.J., et al. [1995,eng] 50-750
- Numerical prediction of sea surges and ice conditions on the Laptev and East-Siberian Sea. Ashik, I.M., [1995,eng] 50-2069
- Numerical simulations of topographic Rossby waves along the East Greenland front. Maslowski, W., [1996,eng] 50-5260
- Numerical study of the circulation of the Bering Sea basin and exchange with the North Pacific Ocean. Overland, J.E., et al. [1994,eng] 50-2855
- Nutrient and persistent pollutant deposition on the Bothnian Bay ice and snow fields. Rahm, L., et al. [1995,eng] 50-1650
- Nutrients in the Aral Sea in winter. Tsytsarin, A.G., [1995,eng] 50-5481
- Observations of anomalous oceanic crust in the Canada Basin, Arctic Ocean. Jackson, H.R., et al. [1995,eng] 50-410
- On the climatological mean circulation over the eastern Bering Sea shelf. Reed, R.K., et al. [1996,eng] 50-6201
- On the generation of internal waves beneath sea ice by a moving load. Duffy, D.G., [1996,eng] 50-3825
- On the ice-ocean response to wind forcing. Omstedt, A., et al. [1996,eng] 50-6666
- Organic sedimentation in an arctic delta. Peulvé, S., et al. [1996,eng] 50-5819
- Oscillatory behavior in arctic sea ice concentrations. Gloersen, P., et al. [1996,eng] 50-4300
- Outflow of dense water from the Storfjord in Svalbard: a numerical model study. Jungclauss, J.H., et al. [1995,eng] 50-2777
- Outflow of Lena River water to the Laptev Sea. Golovin, P.N., et al. [1995,eng] 50-2075
- Overview of the Arctic Ocean Expedition of 1991 (AOE-91). Leck, C., et al. [1996,eng] 50-4312
- Paleoceanographic import of Norwegian Sea sediment stratigraphy. Rasmussen, T.L., et al. [1996,eng] 50-5222
- Paleoceanographic surface water variations derived from ice-rafted sediments. Maslin, M.A., et al. [1995,eng] 50-565
- Paleoclimatic significance of a new Arctic Ocean foraminiferal fauna. Mullen, M.W., et al. [1995,eng] 50-3349
- Paleoglaciation events on Baffin Island, Labrador Sea. Fillon, R.H., et al. [1981,eng] 50-3621
- Paleomagnetic constraints on sedimentation rates in the eastern Arctic Ocean. Schneider, D.A., et al. [1996,eng] 50-6707
- Particle fluxes in the Kara Sea and Ob and Yenisey estuaries. Lisitsyn, A.P., et al. [1995,eng] 50-3543
- Peculiarities of diatom thanatocoenoses formation in the sediments of the Eurasian arctic seas. Poliakova, E.I., [1995,eng] 50-2536
- Pelagic processes in the Norwegian and Greenland Seas. von Bodungen, B., et al. [1995,eng] 50-746
- Penetrative convection induced by the freezing of seawater. Hadji, L., et al. [1996,eng] 50-6761
- Periodic variations in air-water gas exchange of Arctic Ocean insecticide pollutants. Jantunen, L.M., et al. [1995,eng] 50-1862
- Physical and geochemical properties across the Atlantic/Pacific water mass front in the southern Canadian Basin. McLaughlin, F.A., et al. [1996,eng] 50-2845
- Plankton age variations in the Cooperation Sea. Budnichenko, E.V., [1994,eng] 50-868
- Plankton biomass variations in the Bering Sea. Tseitin, V.B., et al. [1994,eng] 50-867
- Plankton dynamics in the Barents Sea marginal ice zone. Hansen, B., et al. [1996,eng] 50-3528
- Plankton ecosystems in the Norwegian and Greenland Sea. Samlebren, C., et al. [1995,eng] 50-749
- Pleistocene foraminifera in Arctic Ocean piston cores. Evans, J.R., et al. [1995,eng] 50-3348
- Pliocene record in the central Arctic Ocean. Clark, D.L., [1996,eng] 50-6626
- Plume of the Yukon River in relation to the oceanography of the Bering Sea. Dean, K.G., et al. [1989,eng] 50-3933
- Polar lows in the Labrador Sea—a case study. Moore, G.W.K., et al. [1996,eng] 50-3821
- Polar vision or tunnel vision: The making of Canadian Arctic waters policy. Huebert, R., [1995,eng] 50-4503
- Pollution distribution and hydrographic variability of the Kara Sea. Pavlov, V.K., et al. [1995,eng] 50-4557
- Preconditioning the Greenland Sea for deep convection: ice formation and ice drift. Visbeck, M., et al. [1995,eng] 50-567
- Primary production and chlorophyll in the Kara Sea in September 1993. Vederikov, V.I., et al. [1995,eng] 50-3536
- Prince William Sound, Alaska beach tar ball origins. Kvenvolden, K.A., et al. [1995,eng] 50-1864
- Processing and analysis of data from oceanographic field experiments. Golubev, V.A., et al. [1992,eng] 50-1261
- Propagation of sound from a moving airborne source in an ice-covered ocean. Grudskii, S.M., et al. [1996,eng] 50-4626
- Pu-137 and excess 210Pb in Russian arctic sediments. Baskaran, M., et al. [1996,eng] 50-5606
- Radioecological hazard of ship nuclear reactors sunk in the Arctic. Sivintsev, I.U.V., et al. [1996,eng] 50-5676
- Radionuclide tracer profiles on Arctic Ocean ice islands. Smith, J.N., et al. [1995,eng] 50-4560
- Real-time operational forecasting on shipboard of the Icelandic-Faeroe frontal variability. Robinson, A.R., et al. [1996,eng] 50-4742
- Reassessment of the Eurasian river input of water, sediment, major elements, and nutrients to the Arctic Ocean. Gordeev, V.V., et al. [1996,eng] 50-5693
- Recent history of the Bering Strait. Svitoch, A.A., et al. [1995,eng] 50-2535
- Relation between scattering coefficient and radiation flux over land-fast sea ice. Barber, D.G., et al. [1995,eng] 50-1816
- Release of brine-enriched shelf water from Storfjord into the Norwegian Sea. Schauer, U., [1995,eng] 50-574
- Remote sensing of sea ice variations in response to atmospheric circulation. Maslanik, J.A., et al. [1995,eng] 50-1815
- Response of a circular ice floe to ocean waves. Meylan, M.H., et al. [1996,eng] 50-5264
- Review of sea ice density. Timco, G.W., et al. [1996,eng] 50-3823
- River pollution of Russian northern seas. Rovinskiĭ, F.I.A., et al. [1995,eng] 50-6548
- River-coastal sea ice interaction model: Mackenzie River Delta. Searcy, C., et al. [1996,eng] 50-5265
- Role of air-sea heat flux in Newfoundland Shelf sea temperature variability. Umoh, J.U., et al. [1995,eng] 50-4209
- Role of the large-scale Arctic Ocean circulation in the transport of contaminants. Schlosser, P., et al. [1995,eng] 50-4556
- Russian oceanographic expedition in the Kara Sea. Lisitsyn, A.P., et al. [1995,eng] 50-3530
- Russian-German cooperation: Laptev Sea system. Kassens, H., ed. et al. [1995,eng] 50-2059
- SAR observations of arctic freeze-up compared to SSM/I during ARCTIC91. Petersson, M.I., et al. [1996,eng] 50-6694
- Satellite radar monitoring of ice drift in the Laptev Sea. Aleksandrov, V.I.U., et al. [1995,eng] 50-2062
- Satellite radar observations of Beaufort Sea autumn freeze-up. Winebrenner, D.P., et al. [1996,eng] 50-6218
- Satellite radar survey of Japan Sea ice processes. Martin, S., et al. [1995,eng] 50-1810
- Scavenging factors affecting Arctic Ocean radionuclide distributions. Cochran, J.K., et al. [1995,eng] 50-4562
- Sea ice and sediment export from the Laptev Sea flow lead during 1991/92 winter season. Dethleff, D., [1995,eng] 50-2073
- Sea ice field experiments in the Laptev Sea, 1976. Gorbunov, I.U., et al. [1995,eng] 50-2064
- Sea ice rheology and sea ice modelling. Tremblay, B., [1993,eng] 50-5185
- Sea ice. Parkinson, C.L., [1996,eng] 50-4998
- Sea of Okhotsk near-freezing dichothermal layer variations. Yang, J.Y., et al. [1996,eng] 50-6219
- Seasonal development of Beaufort Sea pack ice. Melling, H., et al. [1996,eng] 50-5857
- Seasonal simulation of the southern ocean coupled ice-ocean system. Häkkinen, S., [1995,eng] 50-2113
- Sediment flux along glaciated continental margins. Andrews, J.T., et al. [1994,eng] 50-1241
- Sediment reworking by ice gouging in the western Laptev Sea. Lindemann, F., et al. [1995,eng] 50-2096

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- Sediment transport by Laptev Sea ice. Reimnitz, E., et al. [1995.eng] 50-2072
- Sedimentary environment of the Laptev Sea: preliminary results of the TRANSDRIFT II Expedition. Dehn, J., et al. [1995.eng] 50-2100
- Sedimentation and mixing rates of radionuclides in Barents Sea sediments off Novaya Zemlya. Smith, J.N., et al. [1995.eng] 50-4561
- Seismic reflection data from the Fram Strait. Jokat, W., et al. [1995.eng] 50-2541
- Selected aspects of the physical oceanography and particle fluxes in fjords of northern Norway. Wassmann, P., et al. [1996.eng] 50-5571
- Sequence types of Upper Quaternary deposits in the Kara Sea. Levitan, M.A., et al. [1995.eng] 50-3546
- Shoreline ecology program following the Exxon Valdez oil spill, pt.1. Page, D.S., et al. [1995.eng] 50-3921
- Shoreline ecology program following the Exxon Valdez oil spill, pt.2. Boehm, P.D., et al. [1995.eng] 50-3924
- Shoreline ecology program following the Exxon Valdez oil spill, pt.3. Gilfillan, E.S., et al. [1995.eng] 50-3925
- Shoreline impacts in the Gulf of Alaska region following the Exxon Valdez oil spill. Gilfillan, E.S., et al. [1995.eng] 50-3926
- Shoreline oiling conditions in Prince William Sound following the Exxon Valdez oil spill. Neff, J.M., et al. [1995.eng] 50-3923
- Simulation of ship transit for Baltic ice conditions. La Prairie, D., et al. [1995.eng] 50-4583
- Simulation of the mixed-layer circulation in the Arctic Ocean. Holland, D.M., et al. [1996.eng] 50-2843
- Simulation of the seasonal arctic sea-ice cover with a dynamic thermodynamic sea-ice model. Holland, D.M., et al. [1993.eng] 50-5186
- Solar heating of the arctic mixed layer. Maykut, G.A., et al. [1995.eng] 50-2775
- Solid phase sedimentation in the Barents Sea. Hulth, S., et al. [1996.eng] 50-6723
- Solution and stability of natural convective snow in a melt puddle. Bogorodskii, P.V., [1995.eng] 50-2067
- Some active and passive microwave signatures of antarctic sea ice from mid-winter to spring 1991. Gohin, F., [1995.eng] 50-161
- Some lithological-geochemical features of modern bottom sediments of the Laptev Sea shelf. Iakovlev, A.V., [1995.eng] 50-2101
- Sound propagation through hydrological fronts in the Barents Sea. Aleksandrov, I.A., [1995.eng] 50-3311
- Southern oceanic Pleistocene water mass circulation variations. Diester-Haass, L., et al. [1996.eng] 50-3389
- Southwest Pacific paleoceanography and development of the East Antarctic Ice Sheet. Flower, B.P., et al. [1995.eng] 50-2609
- Spaceborne radar imagery for ice reporting in the Baltic Sea. Hakansson, B., et al. [1995.eng] 50-1821
- Spaceborne radiometry of Barents Sea ice cover variations. Bjørge, E., et al. [1994.eng] 50-5077
- Spectrometry of Norwegian Sea water radioactive isotopes. Moran, S.B., et al. [1995.eng] 50-1186
- Stability of M_2 critical latitude in the Barents Sea. Furevik, T., et al. [1996.eng] 50-5262
- Stable carbon isotope ratios in the waters of the Laptev Sea/Sep. 94. Erlenkauer, H., et al. [1995.eng] 50-2082
- Statistical analysis of lithology of Arctic Ocean sediments. Darby, D.A., et al. [1996.eng] 50-5025
- Steering Group for the Global Digital Sea-ice Data Bank. Fourth session. Final report. Commission for Marine Meteorology. [1994.eng] 50-6075
- Structural pattern and tectonic history of the Laptev Sea region. Drachev, S.S., et al. [1995.eng] 50-2105
- Studies of clean and sediment-laden ice in the Laptev Sea. Eicken, H., et al. [1995.eng] 50-2071
- Study of antarctic pack ice. Stevens, J.E., [1995.eng] 50-5154
- Study of Bering Sea primary productivity. Sapozhnikov, V.V., et al. [1995.eng] 50-6687
- Study of brash ice in the proximal marine zone of a sub-polar tidewater glacier. Smith, N.D., et al. [1996.eng] 50-6224
- Study of short term variability in oceanographic data with the aid of numerical filters. Potanin, V.A., et al. [1992.rus] 50-1267
- Study of the calcareous microfauna from Laptev Sea sediments. Bauch, H.A., et al. [1995.eng] 50-2102
- Study of the morphology of a discontinuous section of a first year arctic pressure ridge. Bowen, R.G., et al. [1996.eng] 50-3829
- Study of the surface circulation to the north of Bransfield Strait, Antarctica. de Souza, R.B., [1992.spa] 50-6663
- Surface sediment mineralogy of the Laptev Sea. Wahsner, M., [1995.eng] 50-2099
- Surface-based studies of microwave arctic sea ice signatures during end of summer and early autumn. Darovskikh, A.N., [1995.eng] 50-2065
- Svalbard—field excursion in arctic marine biology, June 5-14, 1995. Weissenberger, J., ed. et al. [1995.eng] 50-1554
- Symposium on Environmental Toxicology and Risk Assessment, 3rd, Atlanta, GA, Apr. 26-28, 1993. Exxon Valdez oil spill: fate and effects in Alaska waters. [1992.ger] 50-3914
- Taxonomic notes on recent benthic Foraminifera from Nansen Basin, Arctic Ocean. Wollenburg, J., [1992.ger] 50-3334
- Temperature variability beneath Ronne Ice Shelf, Antarctica, from thermistor cables. Nicholls, K.W., [1996.eng] 50-2846
- Temporal evolution of under ice reflectivity. Laible, H.A., et al. [1996.eng] 50-4591
- Thermohaline characteristics of the shelf fronts in the western Bering Sea. Verkhunov, A.V., [1995.eng] 50-2533
- Thickness of summer Arctic Ocean multiyear ice. Eicken, H., et al. [1995.eng] 50-2112
- Trace elements in the Weddell Sea water and sediments in the continental shelf area. Niemistö, L., et al. [1995.eng] 50-1952
- Tracing radioactive contamination in the Siberian Arctic. Sayles, F.L., et al. [1996.eng] 50-6668
- Transfer coefficients of radon-222 across the sea surface. Kholuiskii, S.N., et al. [1995.rus] 50-4120
- Transfer of European coastal pollution to the Arctic: radioactive tracers. Dahlgard, H., [1995.eng] 50-1136
- Transfer of reprocessing wastes from north-west Europe to the Arctic. Kershaw, P., et al. [1995.eng] 50-4559
- Trophic structure of the benthos of the Lena polynya. Gukov, A.I.U., [1995.eng] 50-2090
- Turbulence in the statically unstable oceanic boundary layer under arctic leads. McPhee, M.G., et al. [1996.eng] 50-4297
- United States arctic research plan: Biennial revision: 1996-2000. Meyers, C.E., et al. [1995.eng] 50-3243
- Upward flushing of sea water through first year sea ice. Hudier, E.J.J., et al. [1995.eng] 50-4210
- Use of mussels to assess bioavailability of hydrocarbons from the Exxon Valdez oil spill. Shigenaka, G., et al. [1995.eng] 50-3920
- Validation of backscatter models for level and deformed sea-ice in ERS-1 SAR images. Carlström, A., et al. [1995.eng] 50-1811
- Variability in nutrient concentrations around Elephant Island, Antarctica, during 1991-1993. Silva S., N., et al. [1995.eng] 50-941
- Variations in Atlantic Ocean surface paleoceanography. Sarnthein, M., et al. [1995.eng] 50-3003
- Vertical mixing processes in the western Weddell Sea. Robertson, R., et al. [1995.eng] 50-569
- Vertical particle flux on the shelf off northern Spitsbergen, Norway. Andreassen, I., et al. [1996.eng] 50-6566
- West coast Newfoundland oil spill sensitivity atlas. Dempsey, J., et al. [1995.eng] 50-1468
- Western Weddell stratification and ice cover. Gordon, A.L., et al. [1994.eng] 50-2224
- Wind-induced ice floe rotation and icequakes north of the Alaskan Beaufort Sea coast. Kozo, T.L., et al. [1996.eng] 50-6508
- Winter-summer differences of carbon dioxide and oxygen in the Weddell Sea surface layer. Hoppema, M., et al. [1995.eng] 50-3006
- Witness the Arctic, vol.3, no.1. Arctic Research Consortium of the United States, [1996.eng] 50-3930
- Zooplankton of the Laptev Sea coastal waters. Petriashov, V.V., et al. [1995.eng] 50-2084
- Offshore drilling**
- \$1.5 billion development plan set for BP's Alaskan Beaufort Sea fields. [1996.eng] 50-5290
- Acid stimulation of Endicott/Kekikuk Formation, North Slope, Alaska. Hsi, C.K.D., et al. [1991.eng] 50-1751
- Arctic and Offshore Research Information System. Shoemaker, H.D., et al. [1991.eng] 50-1753
- Arctic conferences fail to be frozen. [1986.eng] 50-5652
- Arctic not so costly and design ice loads falling. [1990.eng] 50-5586
- Arctic operators seek warmth in a cold climate. Cottrill, A., [1986.eng] 50-5653
- Arctic tool cuts teeth on gloryhole. [1987.eng] 50-4288
- Beaufort Sea Planning Area Oil and Gas Lease Sale 144. Final environmental impact statement. U.S. Department of the Interior. Minerals Management Service. Alaska Outer Continental Shelf Region, [1996.eng] 50-4552
- Blowout in Beaufort Sea gas well. [1989.eng] 50-5647
- Challenges for the development of hydrocarbon fields in the Barents Sea. Gudmestad, O.T., et al. [1995.eng] 50-209
- Environmental impact of offshore oil exploration in the Arctic. Mosbech, A., et al. [1995.eng] 50-2964
- Exploratory oil drilling in the Beaufort Sea. Cottrill, A., [1986.eng] 50-5651
- Geological structure of the Laptev Ocean shelf. Kim, V.I., et al. [1995.eng] 50-2108
- Heaters for oil pipelines. [1991.eng] 50-4380
- Hibernia edges forward as bidding starts. Fox, C., [1988.eng] 50-4969
- How the Arctic's top field will be developed. [1987.eng] 50-4287
- Huge Barents Sea gas field holds promise. [1991.eng] 50-4377
- Hydrogen sulfide forecasting techniques for the Kuparuk River Field. Frazer, L.C., et al. [1991.eng] 50-1729
- Ice studies on the northern Sakhalin offshore. Truskov, P.A., et al. [1995.eng] 50-6316
- Ice-structure interaction research and arctic development. Kennedy, K.P., et al. [1995.eng] 50-6304
- Large-diameter glory hole drilling: the evolution from 12- to 20-ft diameter. Shields, R.G., [1991.eng] 50-1738
- Mathematical model of spray ice island creep. Thiel, D.T., et al. [1991.eng] 50-1720
- New arctic drilling rig. [1987.eng] 50-4286
- Norway entices exploration groups with improved licensing terms. [1995.eng] 50-2537
- Norwegian petroleum resources with focus on challenges and opportunities in the Barents Sea. Aamodt, F.R., [1995.eng] 50-174
- Ocean Drilling Program in Fram Strait and prediction of ice-free conditions. Wadhams, P., et al. [1995.eng] 50-215
- Offshore development in iceberg-infested waters with the use of a concrete protective barrier. Broughton, P., et al. [1991.eng] 50-1731
- Optimizing fracture stimulations in the McArthur River oil reservoir, Alaska. Schoffmann, A.B., [1991.eng] 50-1750
- Petroleum exploration opportunities on the U.S.-Russia Chukchi Sea continental shelf. Warren, T., et al. [1995.eng] 50-210
- Petroleum resources of the Mackenzie Delta and Beaufort Sea. Dixon, J., et al. [1994.fre] 50-3319
- Proceedings. Vol.2. International Offshore and Polar Engineering Conference, 5th, Hague, Netherlands, June 11-16, 1995. [1995.eng] 50-175
- Proceedings. Volume IV. Arctic/polar technology. International Conference on Offshore Mechanics and Arctic Engineering (OMAE), 14th, Copenhagen, Denmark, June 18-22, 1995. [1995.eng] 50-2935
- Production of high-strength concrete for the Hibernia offshore concrete platform. Hoff, G.C., et al. [1994.eng] 50-2764
- Quantification of the reliability of iceberg management off eastern Canada. Goodridge, D.N., et al. [1995.eng] 50-2947
- Relation between sea ice loads and arctic offshore structures. Blanchet, D., et al. [1991.eng] 50-1721
- Report on underwater noise. Davis, R.A., et al. [1991.eng] 50-3420
- Review of select exploration and development activity in state nearshore areas. Hansen, J., [1995.eng] 50-6305
- Russia opens far east offshore. [1993.eng] 50-5440
- Safe operation of arctic offshore drilling systems in the United States. Regg, J., et al. [1995.eng] 50-216
- Shell to break Chukchi ice. [1989.eng] 50-5644
- Shell to the fore as Chukchi opens up. [1988.eng] 50-4968
- Submarine cryolithozone of Russian Arctic off-shore: problems of hydrocarbon recovery. Kul'pin, L.G., et al. [1995.eng] 50-2961
- Surprising success for Arctic lease sale. [1988.eng] 50-4967
- Waterflood monitoring enhancement of offshore Alaskan oil reservoir management. Starzer, M.R., et al. [1991.eng] 50-1712
- World Oil's handbook of arctic well completions. Goodman, M.A., [1978.eng] 50-2057
- Offshore permafrost**
- See [also]: Subsea permafrost
- Offshore structures**
- 1995 perspective on global design ice loads. Kennedy, K.P. [1995.eng] 50-2937
- Abrasion mode of a circular cylindrical concrete structure due to sea ice movement. Itoh, Y., et al. [1995.eng] 50-191
- Abstracts. International Symposium on Okhotsk Sea and Sea Ice, 11th, Mombetsu, Hokkaido, Japan, Feb. 25-28, 1996. [1996.eng] 50-5872
- Application of ice cover mechanics in design and operations of marine structures. Riska, K., et al. [1995.eng] 50-6303
- Arctic not so costly and design ice loads falling. [1990.eng] 50-5586
- Arctic pipelines get to grips with scour. [1990.eng] 50-5587
- Arctic platform evacuation vehicle. [1990.eng] 50-5588
- Calculating vertical ice loads on vertical structures at variable water levels. Nishihata, A., et al. [1996.jp] 50-5879
- Challenges for the development of hydrocarbon fields in the Barents Sea. Gudmestad, O.T., et al. [1995.eng] 50-209
- Cold regions engineering research—a strategic plan. Carlson, R.F., ed. et al. [1988.eng] 50-6209
- Computational modelling of brittle ice fragmentation. Tuhkuri, J., [1996.eng] 50-5942
- Concrete TLP to sit out Barents bergs. Cottrill, A., [1990.eng] 50-3866
- Construction of the Okhotsk frozen-sea observation tower. Sato, Y., et al. [1996.jp] 50-5873
- Cyclic direct simple shear testing of a Beaufort Sea clay. McCarron, W.O., et al. [1995.eng] 50-579
- Definition of the loading regime on offshore structures from drifting ice covers. Bekker, A.T., et al. [1996.eng] 50-4463
- Deformation and failure of an ice cover at an ice-resistant structure. Danilenko, V.I., et al. [1995.eng] 50-2938
- Determination of the ice strength for calculation of the ice load. Bekker, A.T., et al. [1996.eng] 50-4462
- Distinct element modelling of seabed-ice rubble interaction. Evgin, E., et al. [1993.eng] 50-5597
- Drifting ice forces on offshore piles. Afanas'ev, V.P., et al. [1990.eng] 50-98
- Durability issues of FRP composites in offshore structures. Dutta, P.K., [1995.eng] 50-217
- Earthquake response offshore structures surrounded by ice floes (Part II). Okamoto, N., et al. [1996.jp] 50-5882
- Environmental loading studies for the CSA Offshore Structures Code. Allyn, N., et al. [1995.eng] 50-1411
- Estimation of burial depths for pipelines in arctic regions. Chouinard, L.E., [1995.eng] 50-1839
- Experimental studies on ice forces on conical structures using segmented model. Kato, K., et al. [1996.jp] 50-5875
- Experimental study of ice load on conical structures. Ohta, M., et al. [1996.jp] 50-5877
- Experimental study on abrasion of various concretes due to ice movement. Itoh, Y., et al. [1992.eng] 50-2762
- Fatigue reliability calculation for structure members of offshore fixed platform. Fang, H.C., et al. [1995.eng] 50-218

Oil

Oil spills

- Flow properties of crushed ice. Singh, S.K., et al, [1995.eng] 50-2999
- Freezable wax plug for pipeline.[1992.eng] 50-4414
- Freezing and thawing of lightweight concrete. Hoff, G.C., [1995.eng] 50-2625
- Gulf Canada probabilistic ice load model: operation and parametric sensitivity study. Watson, D.A., et al, [1995.eng] 50-1413
- Heaters for oil pipelines.[1991.eng] 50-4380
- Heerema commits to Siberian gas crossing.[1992.eng] 50-4415
- Hibernia edges forward as bidding starts. Fox, C., [1988.eng] 50-4969
- How the Arctic's top field will be developed.[1987.eng] 50-4287
- Ice accumulation on fixed and floating ocean structures. Minsk, L.D., [1975.eng] 50-5755
- Ice breaking device for an offshore platform. Mishin, V.N., et al, [1992.rus] 50-1949
- Ice loads on fixed and floating structures: panel report. Croasdale, K.R., et al, [1995.eng] 50-6300
- Ice model test basin opens in Helsinki.[1989.eng] 50-5649
- Ice platform. Gabibov, F.G., et al, [1992.rus] 50-1924
- Ice-breaking device frees structures.[1989.eng] 50-5650
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995.eng] 50-195
- Ice-structure dynamic interaction: failure ice model. Bekker, A.T., [1995.eng] 50-2942
- Ice-structure interaction research and arctic development. Kennedy, K.P., et al, [1995.eng] 50-6304
- Ice-structure interaction under slippage boundary conditions. Matskevich, D.G., [1995.eng] 50-2936
- Iceberg-structure interaction probabilities for design. Fugle, M., et al, [1996.eng] 50-5052
- Impact ice load acting on flat plate due to wave action. Hanada, M., et al, [1996.jpj] 50-5880
- Indentation pressure in ice/vertical structure interaction. Takeuchi, T., et al, [1995.eng] 50-2738
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al, [1996.eng] 50-5161
- Investigation of sea ice shear properties. Zanegin, V.G., et al, [1990.eng] 50-101
- Joint probability of environmental loads on marine structures. Liu, D.F., et al, [1995.eng] 50-196
- Local pressure characteristics by indenter with segmented local ice pressure panels. Kamesaki, K., et al, [1996.jpj] 50-5876
- Mathematical model of spray ice island creep. Thiel, D.T., et al, [1991.eng] 50-1720
- Mechanism of the abrasion of concrete structures due to the movement of ice sheets. Ito, Y., et al, [1995.eng] 50-2653
- Method to prevent weld zone corrosion in offshore structures. DeGer, D.D., et al, [1991.eng] 50-1726
- Microstructure durability of concretes exposed to arctic conditions. Sarkar, S.L., et al, [1995.eng] 50-2664
- Mobile offshore platform and a method for its assembly and dismantling. Ionin, V.S., [1992.rus] 50-1948
- Modelling of continuous crushing of ice in front of offshore structures. Brown, T.G., et al, [1995.eng] 50-575
- Models of ice-structure contact for engineering applications. Riska, K., [1995.eng] 50-3808
- Multiaxial creep of saline ice. Golubov, A.I., et al, [1990.eng] 50-102
- New, low-cost, ice- and wave-resistant port facility at Nome, Alaska. Swigart, W.S., et al, [1991.eng] 50-1732
- Northumberland Strait bridge: analysis techniques and results. Ghali, A., et al, [1996.eng] 50-5046
- NRC centre for ice loads on Beaufort Sea structures. Timco, G.W., [1996.eng] 50-3238
- Offshore development in iceberg-infested waters with the use of a concrete protective barrier. Broughton, P., et al, [1991.eng] 50-1731
- Offshore structure and installation method. Waddell, J.W., [1995.eng] 50-3479
- On deflecting drifting icebergs. RieB, I.R., et al, [1995.eng] 50-2945
- On dynamics of ice-structure interaction. Kajaste-Rudnitski, J., [1995.eng] 50-4169
- On the indentation of a blunt ice wedge. Salvadurai, A.P.S., et al, [1995.eng] 50-180
- Pipeline stability in an ice-scoured seabed. Clark, J.L., et al, [1990.eng] 50-100
- Problem of choice of the design parameters for ice thickness. Polomoshnov, A.M., et al, [1996.eng] 50-5901
- Proceedings of the First European Offshore Mechanics Symposium, 1990. European Offshore Mechanics Symposium, First, Trondheim, Norway, Aug. 20-22, 1990, [1990.eng] 50-93
- Proceedings. Vol.2. International Offshore and Polar Engineering Conference, 5th, Hague, Netherlands, June 11-16, 1995, [1995.eng] 50-175
- Proceedings. Volume IV. Arctic/polar technology. International Conference on Offshore Mechanics and Arctic Engineering (OMAEE), 14th, Copenhagen, Denmark, June 18-22, 1995, [1995.eng] 50-2935
- Production of high-strength concrete for the Hibernia offshore concrete platform. Hoff, G.C., et al, [1994.eng] 50-2764
- Recent advances in ice interaction and force estimation processes for vertical structures. Arunachalam, A.V.M., [1995.eng] 50-197
- Relation between sea ice loads and arctic offshore structures. Blanchet, D., et al, [1991.eng] 50-1721
- Simulation of the ice-structure interaction under the parabolic strength criterion for ice. Matskevich, D.G., [1995.eng] 50-190
- Singularities in simulation of ice sheet-solid impact regime. Darr, D.G., et al, [1995.eng] 50-2163
- Special light weight concrete—resistance to rebar corrosion and salt/frost scaling. Havdahl, J., et al, [1995.eng] 50-2658
- Statistics of ice-structure interaction. Kajaste-Rudnitski, J., [1995.eng] 50-199
- Strength of composite ice-resisting walls subjected to combined loads. Stephens, M.J., et al, [1990.eng] 50-95
- Subsea pipe freeze first on East Brae.[1993.eng] 50-5441
- Test methods for abrasion of concrete structures by ice. Hara, F., et al, [1995.eng] 50-2654
- Underwater maintenance and inspection of CP systems (Cook Inlet, Alaska). Daley, J.C., et al, [1996.eng] 50-5502
- Variation of local pressures during ice-structure interaction. Johnston, M., [1994.eng] 50-376
- Winter protection for unprepared steel.[1989.eng] 50-5646
- See [also]: Floating structures; Hydraulic structures
- Oil**
See [also]: Crude oil
- Oil industry**
See [also]: Petroleum industry
- Oil recovery**
Acid stimulation of Endicott Kekikuk Formation, North Slope, Alaska. Hsi, C.K.D., et al, [1991.eng] 50-1751
- Adhesion of oil to plastics, stainless steel and ice. Liukkonen, S., et al, [1995.eng] 50-5716
- Alaska pipeline oil spill contingency plan. Alyeska Pipeline Service Company, Anchorage, AK, [1991.eng] 50-850
- Alyeska/SERVS technological innovations for oil spill response. Hillman, S.O., [1996.eng] 50-5552
- Analysis of return drilling fluids in Prudhoe Bay oil wells. Fambrough, J.D., et al, [1991.eng] 50-1714
- Arctic bioremediation: a case study. Liddell, B.V., et al, [1991.eng] 50-1752
- Challenge of West Sak heavy oil: analysis of an innovative approach. Gondouin, M., et al, [1991.eng] 50-1713
- Clean-up assessment of the pipeline oil spill on the Kova River. Stenikiewicz, A.M., et al, [1996.eng] 50-5570
- Conglomerate identification and mapping leads to development success in a mature Alaskan field. O'Sullivan, T.P., et al, [1991.eng] 50-1756
- Developing the U.S. Coast Guard's Airborne Dispersant Delivery System capability. Bleicher, D., et al, [1995.eng] 50-5722
- Dirty oil makes a feast for soil bacteria. Kiernan, V., [1996.eng] 50-4872
- Effects of oil spills on high arctic plant communities in Greenland. Bay, C., et al, [1994.eng] 50-303
- Effects of steam quality on cyclic steam stimulation at Cold Lake, Alberta. Ho, D.W., et al, [1991.eng] 50-1703
- Enhancing the encounter rate of a prototype weir skimmer. Delozier, M.J., [1995.eng] 50-5724
- Evolving description of a fractured carbonate reservoir: the Lisburne Field, Prudhoe Bay, Alaska. Missman, R.A., et al, [1991.eng] 50-1755
- Exxon Valdez Oil Spill Restoration Plan. Final environmental impact statement. Exxon Valdez Oil Spill Trustee Council, Anchorage, AK, [1994.eng] 50-369
- Exxon Valdez Oil Spill Restoration Plan. Exxon Valdez Oil Spill Trustee Council, Anchorage, AK, [1994.eng] 50-398
- Future of oil and gas in northern Alaska. Bird, K.J., et al, [1995.eng] 50-5642
- Gas measurement with large Venturi tubes at Prudhoe Bay, Alaska. Metz, W.P., et al, [1991.eng] 50-1759
- Geochemical analyses of Exxon Valdez oil spill. Bence, A.E., et al, [1996.eng] 50-6339
- Geostatistical analysis of waterflood recoveries from an Alaskan drillsite. Wolcott, D.S., et al, [1991.eng] 50-1757
- Hydrogen sulfide forecasting techniques for the Kuparuk River Field. Frazer, L.C., et al, [1991.eng] 50-1729
- Ice drift and oil spill hazard off Sakhalin. Kalinin, E.N., et al, [1996.eng] 50-5900
- In situ remediation of hydrocarbon contaminated soil and groundwater. Gould, T.F., et al, [1996.eng] 50-6116
- Injection profiling in the Kuparuk River Field, Alaska. Scott, H.D., et al, [1991.eng] 50-1741
- Integrated approach to shoreline mapping for spill response planning. Owens, E.H., et al, [1996.eng] 50-5561
- Komi oil spill—an assessment by a multi-national team. Devanis, P.K., [1995.eng] 50-5731
- Management of shoreline protection and treatment operations. Owens, E.H., [1996.eng] 50-5562
- Multilaterals, horizontal wells could access remote Russian oil reserves. Hazen, T., [1996.eng] 50-6575
- New environmental database mapping for oil spill response in Alaska. O'Brien, D.K., et al, [1995.eng] 50-5719
- Oil combating in a cold environment using bioremediation techniques. Rytkönen, J., et al, [1995.eng] 50-169
- Oil on shorelines and shoreline treatment: a state-of-knowledge review. Owens, E.H., et al, [1996.eng] 50-5560
- Oil pollution in ice covered seas. Arita, M., et al, [1996.jpj] 50-5899
- Oil recovery and nearshore protection in Prince William Sound. Hood, S.D., [1995.eng] 50-5721
- Oil recovery from Alaskan tar sands using electromagnetic heating. Islam, M.R., et al, [1991.eng] 50-1760
- Oil spill risks for Copper River Delta in Alaska. Christensen, F.T., et al, [1996.eng] 50-5556
- Optimal fracture stimulation of a moderate permeability reservoir, Kuparuk River unit. Pearson, C.M., et al, [1991.eng] 50-1701
- Optimizing fracture stimulations in the McArthur River oil reservoir, Alaska. Schoffmann, A.B., [1991.eng] 50-1750
- Overview of the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Hartley, A.E., Sr., [1996.eng] 50-5568
- Petroleum hydrocarbon removal via volatilization and biodegradation at McGrath, Alaska. Ramert, P.C., et al, [1996.eng] 50-6115
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 18th, Edmonton, Alberta, June 14-16, 1995, [1995.eng] 50-5715
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 19th, Calgary, Alberta, June 12-14, 1996, [1996.eng] 50-5551
- Proceedings. Arctic and Marine Oilspill Program Technical Seminar, 13th, Edmonton, Alberta, June 6-8, 1990, [1990.eng] 50-466
- Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991, [1991.eng] 50-1696
- Protecting tundra ecosystems in oil extraction regions. Solov'ev, V.A., et al, [1994.rus] 50-255
- Recovery target: Prudhoe Bay heavy crude oil.[1995.eng] 50-3690
- Remediation of a hydrocarbon spill in Alberta. Mitton, M.J., et al, [1995.eng] 50-5725
- Response operations on the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Stillings, W.I., [1996.eng] 50-5569
- Risk assessment of offshore oil spills. LaBelle, R.P., [1990.eng] 50-470
- Sea ice over-flooding and oil spills in the Mackenzie Delta. Webb, R., [1995.eng] 50-5720
- Shoreline clean-up techniques—Exxon Valdez operations. Naudman, S.A., [1990.eng] 50-478
- Shoreline cleanup following the Exxon Valdez oil spill. Owens, E.H., et al, [1990.eng] 50-476
- Shoreline cleanup following the Exxon Valdez oil spill. Teal, A.R., [1990.eng] 50-477
- Shoreline monitoring following the Exxon Valdez incident. Owens, E.H., et al, [1990.eng] 50-480
- Skimmers help clear Alaskan spillage.[1989.eng] 50-5648
- Spray freezing to treat oil sands tailings pond water. Gao, W., et al, [1996.eng] 50-6112
- State of Alaska's participation in spill response and preparedness in the state. Vogt, D., [1992.eng] 50-87
- Studying arctic and subarctic ecosystems of impact regions using remote monitoring methods. Tereshchenko, O.M., et al, [1994.rus] 50-278
- Subsurface Oil in Coarse Sediments Experiments (SOCSEX II). Harper, J.R., et al, [1995.eng] 50-5726
- Suggested improvements to oil spill response planning. Owens, E.H., [1990.eng] 50-479
- System for recovery of oil from snow and ice surfaces. Aiken, L.B., [1995.eng] 50-3473
- Use of dispersants in broken ice. Brown, H.M., et al, [1996.eng] 50-5553
- Use of surfactants in oil spill remediation in cold regions. Tumeo, M.A., et al, [1995.eng] 50-5723
- Waterflood monitoring enhancement of offshore Alaskan oil reservoir management. Starzer, M.R., et al, [1991.eng] 50-1752
- WinOil: an oil spill model for Windows 95. McGillivray, D.G., et al, [1996.eng] 50-5555
- Oil spills**
Adhesion of oil to plastics, stainless steel and ice. Liukkonen, S., et al, [1995.eng] 50-5716
- Aerial surveillance of oil sheen following the Exxon Valdez oil spill shoreline cleanup. Taft, D.G., et al, [1995.eng] 50-3919
- Airborne laser fluorosensor to detect oil spills. Brown, C.E., et al, [1996.eng] 50-5564
- Alaska pipeline oil spill contingency plan. Alyeska Pipeline Service Company, Anchorage, AK, [1991.eng] 50-850
- Alyeska/SERVS technological innovations for oil spill response. Hillman, S.O., [1996.eng] 50-5552
- Analysis of the Kominet pipeline oil. Lambert, P., et al, [1995.eng] 50-5734
- Analyzing water quality in the Pechora Bay of the Barents Sea. Kuznetsov, V.S., et al, [1991.rus] 50-1321
- Arctic bioremediation: a case study. Liddell, B.V., et al, [1991.eng] 50-1752
- Basis for statistical inferences in coastal injury assessment of Exxon Valdez oil spill. McDonald, L.L., et al, [1995.eng] 50-3922
- Beaufort Sea Planning Area Oil and Gas Lease Sale 144. Final environmental impact statement. U.S. Department of the Interior. Minerals Management Service. Alaska Outer Continental Shelf Region, [1996.eng] 50-4552
- Benthic sediment hydrocarbon sources following the Exxon Valdez oil spill. Page, D.S., et al, [1995.eng] 50-3915
- Biofurfing—enhancing biological remediation of near-surface spills by aeration. Stehmeier, L., et al, [1996.eng] 50-5567
- Biological remediation of shoreline oily waste from marine spills. Labrie, P., et al, [1990.eng] 50-474
- Bioremediation of a petroleum-contaminated cryic soil. Walworth, J.L., et al, [1995.eng] 50-781
- Chemical and toxicological evaluation of water quality following the Exxon Valdez oil spill. Neff, J.M., et al, [1995.eng] 50-3917

Oil storage

- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995.eng] 50-1863
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995.eng] 50-5717
- Cleansing role of clay-oil flocculation in shoreline sediments following an oil spill. Bragg, J.R., et al. [1995.eng] 50-3918
- Cleanup assessment of the pipeline oil spill on the Kova River. Sienkiewicz, A.M., et al. [1996.eng] 50-5570
- Cold climate applications of bioventing. Ong, S.K., et al. [1994.eng] 50-1474
- Comparison of shoreline assessment study designs used for the Exxon Valdez oil spill. Gilfillan, E.S., et al. [1996.eng] 50-5554
- Comprehensive review of oil spill combustion studies. Walavalkar, A.Y., et al. [1996.eng] 50-5559
- Contained controlled burning of spilled oil during the Exxon Valdez oil spill. Allen, A.A., [1990.eng] 50-471
- Developing the U.S. Coast Guard's Airborne Dispersant Delivery System capability. Bleicher, D., et al. [1995.eng] 50-5722
- Dirty oil makes a feast for soil bacteria. Kiernan, V., [1996.eng] 50-4872
- Distinguishing natural organics from diesel contaminants in soils. Dworjan, P., [1996.eng] 50-6113
- Effect of oil pollution on the ecosystems of Kola Bay. Sakulina, M.V., et al. [1991.rus] 50-1320
- Effects of oil spills on high arctic plant communities in Greenland. Bay, C., et al. [1994.eng] 50-303
- Effects of the Exxon Valdez oil spill on subtidal sediments in bays. Page, D.S., et al. [1996.eng] 50-5563
- Emulsion breaking igniters: recent developments in oil spill igniter concepts. Guénette, C.C., et al. [1995.eng] 50-5729
- Enhancing the encounter rate of a prototype weir skimmer. Delozier, M.J., [1995.eng] 50-5724
- Environmental effects of the Antonio Gramsci oil spill in 1987. Hirvi, J.P., [1990.eng] 50-469
- Environmental factors influencing the biodegradation of petroleum hydrocarbons in cold seawater. Siron, R., et al. [1995.eng] 50-651
- Environmental impact of offshore oil exploration in the Arctic. Mosbech, A., et al. [1995.eng] 50-2964
- Environmental security and the NSR: a pan-Arctic challenge? Østreng, W., [1996.eng] 50-4451
- Exxon Valdez Oil Spill Restoration Plan. Final environmental impact statement. Exxon Valdez Oil Spill Trustee Council. Anchorage, AK. [1994.eng] 50-369
- Exxon Valdez Oil Spill Restoration Plan. Exxon Valdez Oil Spill Trustee Council. Anchorage, AK. [1994.eng] 50-398
- Fate of oil determinations under arctic conditions; the Komi pipeline oil spill experience. Nadeau, R.J., et al. [1995.eng] 50-5732
- Field test of waste oil combustion and empty drum cleaning at Alexandra Fiord, NWT. McCourt, J., et al. [1996.eng] 50-5565
- Fingerprinting hydrocarbons in the biological resources of the Exxon Valdez spill area. Bence, A.E., et al. [1995.eng] 50-3916
- Flame spread over fuel-spilled and/or snow-covered asphalt road. Ishida, H., et al. [1996.eng] 50-4230
- Geobotanical maps as an aid in assessing surface impacts. Everett, K.R., et al. [1994.eng] 50-304
- Geochemical analyses of Exxon Valdez oil spill. Bence, A.E., et al. [1996.eng] 50-6339
- Human impact around polar stations on Fildes Peninsula. Krzyzowska, A., [1993.eng] 50-2189
- Ice drift and oil spill hazard off Sakhalin. Kalinin, E.N., et al. [1996.eng] 50-5900
- Improved airborne laser fluorosensor for assessment of marine pollution. Dick, R., et al. [1990.eng] 50-472
- In situ remediation of hydrocarbon contaminated soil and groundwater. Gould, T.F., et al. [1996.eng] 50-6116
- In-situ burning of Alaskan oils and emulsions. Buist, I., et al. [1996.eng] 50-5558
- In-situ burning of crude oil and emulsions in broken ice. Guénette, C.C., et al. [1996.eng] 50-5557
- In-situ burning of uncontained crude oil and emulsions. Guénette, C.C., et al. [1995.eng] 50-5728
- Innovative bioventing system construction/operation in cold regions. Strickland, K.K., et al. [1996.eng] 50-6136
- Integrated approach to shoreline mapping for spill response planning. Owens, E.H., et al. [1996.eng] 50-5561
- Interactive oil spill trajectory model for Alaskan arctic waters. Britch, R.P., et al. [1990.eng] 50-468
- Komi oil spill—an assessment by a multi-national team. Devenis, P.K., [1995.eng] 50-5731
- Laboratory tests of oil fate in cold water, ice and waves. Timco, G.W., et al. [1995.eng] 50-51
- Large volume oil spill on land surface: the Vozey oil field, Russia. Zoltai, S.C., et al. [1995.eng] 50-5733
- Management of shoreline protection and treatment operations. Owens, E.H., [1996.eng] 50-5562
- Modeling of contaminant transport in groundwater in areas of discontinuous permafrost. Johanson, R., et al. [1996.eng] 50-6114
- Modelling the spread of oil spills in ice-infested waters. Venkatesh, S., et al. [1990.eng] 50-467
- Natural cleaning of oiled coarse sediment shorelines in arctic and Atlantic Canada. Owens, E.H., et al. [1994.eng] 50-6231

- Navigation and the pollution of the coastal zone of Arctic seas. Slevich, S.B., et al. [1991.rus] 50-1319
- New environmental database mapping for oil spill response in Alaska. O'Brien, D.K., et al. [1995.eng] 50-5719
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge, Alaska. Department of Environmental Conservation. Division of Environmental Quality. [1990.eng] 50-3913
- Oil combating in a cold environment using bioremediation techniques. Rytönen, J., et al. [1995.eng] 50-169
- Oil on shorelines and shoreline treatment: a state-of-knowledge review. Owens, E.H., et al. [1996.eng] 50-5560
- Oil pollution in Arctic waters. Futsaeter, G., et al. [1991.eng] 50-3421
- Oil pollution in ice covered seas. Arita, M., et al. [1996.jp] 50-5899
- Oil recovery and nearshore protection in Prince William Sound. Hood, S.D., [1995.eng] 50-5721
- Oil spill risks for Copper River Delta in Alaska. Christensen, F.T., et al. [1996.eng] 50-5556
- Oil spills in open and ice-infested waters: a comparative need for data on water currents. Venkatesh, S., [1995.eng] 50-5932
- Overview of the Kola River Basin 1995 Oil Recovery and Mitigation Project. Hartley, A.E., Sr., [1996.eng] 50-5568
- Petroleum hydrocarbon removal via volatilization and biodegradation at McGrath, Alaska. Ramert, P.C., et al. [1996.eng] 50-6115
- Potential for bioremediation of fuel-contaminated soil in Antarctica. Wardell, L.J., [1995.eng] 50-782
- Prince William Sound intertidal biota—good news and bad news five years later. Houghton, J.P., et al. [1995.eng] 50-5730
- Prince William Sound, Alaska beach tar ball origins. Kvenvolden, K.A., et al. [1995.eng] 50-1864
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 18th. Edmonton, Alberta, June 14-16, 1995. [1995.eng] 50-5715
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 19th. Calgary, Alberta, June 12-14, 1996. [1996.eng] 50-5551
- Proceedings. Arctic and Marine Oilspill Program Technical Seminar, 13th. Edmonton, Alberta, June 6-8, 1990. [1990.eng] 50-466
- Project II.6.2: Environmental safety of navigation. Tsai, L.G., et al. [1996.eng] 50-4440
- Real time oil spill forecasting during an experimental oil spill in the arctic ice. Reed, M., et al. [1994.eng] 50-1685
- Remediation of a hydrocarbon spill in Alberta. Mitton, M.J., et al. [1995.eng] 50-5725
- Remote sensing of oil spills. Fingas, M.F., [1990.eng] 50-473
- Removal of hydrocarbons from the Bahia Paraiso. Arangio, I.A., [1994.eng] 50-4772
- Response operations on the Kola River Basin 1995 Oil Recovery and Mitigation Project. Sillings, W.L., [1996.eng] 50-5569
- Review of bioremediation experience in Alaska. Kellems, B.L., et al. [1994.eng] 50-1473
- Risk assessment of offshore oil spills. LaBelle, R.P., [1990.eng] 50-470
- Sea ice over-flooding and oil spills in the Mackenzie Delta. Webb, R., [1995.eng] 50-5720
- Searching for ways of stimulating oil biodegradation in soil. Kazakova, E.N., et al. [1994.rus] 50-281
- Selection of cold-tolerant plants for growth in soils contaminated with organics. Rogers, H.B., et al. [1995.eng] 50-4609
- Shoreline clean-up techniques—Exxon Valdez operations. Naudman, S.A., [1990.eng] 50-478
- Shoreline cleanup following the Exxon Valdez oil spill. Owens, E.H., et al. [1990.eng] 50-476
- Shoreline cleanup following the Exxon Valdez oil spill. Teal, A.R., [1990.eng] 50-477
- Shoreline ecology program following the Exxon Valdez oil spill, pt.1. Page, D.S., et al. [1995.eng] 50-3921
- Shoreline ecology program following the Exxon Valdez oil spill, pt.2. Boehm, P.D., et al. [1995.eng] 50-3924
- Shoreline ecology program following the Exxon Valdez oil spill, pt.3. Gilfillan, E.S., et al. [1995.eng] 50-3925
- Shoreline impacts in the Gulf of Alaska region following the Exxon Valdez oil spill. Gilfillan, E.S., et al. [1995.eng] 50-3926
- Shoreline monitoring following the Exxon Valdez incident. Owens, E.H., et al. [1990.eng] 50-480
- Shoreline oiling conditions in Prince William Sound following the Exxon Valdez oil spill. Neff, J.M., et al. [1995.eng] 50-3923
- Siberian oil eating bacteria. [1991.eng] 50-4378
- Skimmers help clear Alaskan spillage. [1989.eng] 50-5648
- Smoke plume trajectory from *in situ* burning of crude oil in Alaska—field experiments. McGrattan, K.B., et al. [1995.eng] 50-5727
- Soil bioremediation at CFB Trenton: evaluation of bioremediation processes. Ouellette, L., et al. [1996.eng] 50-5566
- State of Alaska's participation in spill response and preparedness in the state. Vogt, D., [1992.eng] 50-87
- Stranded oil persistence in cold climates. Humphrey, B., et al. [1990.eng] 50-475
- Subsurface Oil in Coarse Sediments Experiments (SOCSEX II). Harper, J.R., et al. [1995.eng] 50-5726
- Suggested improvements to oil spill response planning. Owens, E.H., [1990.eng] 50-479

- Symposium on Environmental Toxicology and Risk Assessment, 3rd, Atlanta, GA, Apr. 26-28, 1993. Exxon Valdez oil spill: fate and effects in Alaska waters. [1995.eng] 50-3914
- Use of dispersants in broken ice. Brown, H.M., et al. [1996.eng] 50-5553
- Use of mussels to assess bioavailability of hydrocarbons from the Exxon Valdez oil spill. Shigenaka, G., et al. [1995.eng] 50-3920
- Use of surfactants in oil spill remediation in cold regions. Turneo, M.A., et al. [1995.eng] 50-5723
- Vertical migration of diesel into silty sand subject to cyclic freeze-thaw. Biggar, K.W., et al. [1996.eng] 50-6117
- West coast Newfoundland oil spill sensitivity atlas. Dempsey, J., et al. [1995.eng] 50-1468
- WinOil: an oil spill model for Windows 95. McGillivray, D.G., et al. [1996.eng] 50-5555
- Oil storage**
- Current status and problems of countermeasures against snow and cold for oil storage tanks. Toyama, S., [1988.jp] 50-2284
- Northern Gateway Oil Terminal Study: phase 1. Vikhamar, T.K., et al. [1995.eng] 50-211
- Painting fuel storage facilities with local labor in Nunavut. Prinsloo, H.F., [1996.eng] 50-5948
- Oil transportation**
- See [also]: Petroleum transportation
- Oil wells**
- Acid stimulation of Endicott/Kekikuk Formation, North Slope, Alaska. Hsi, C.K.D., et al. [1991.eng] 50-1751
- Air temperature effects on cold weather drilling mud dewatering. Wojtanowicz, A.K., et al. [1991.eng] 50-1708
- Alternatives for closure of solid oily waste sites on the North Slope of Alaska. Kellems, B.L., et al. [1991.eng] 50-1709
- Analysis of return drilling fluids in Prudhoe Bay oil wells. Fambrough, J.D., et al. [1991.eng] 50-1714
- Arctic conferences fail to be frozen. [1986.eng] 50-5652
- Ardalin field flows despite weather, terrain. Britton, M.W., et al. [1995.eng] 50-4396
- Blowout in Beaufort Sea gas well. [1989.eng] 50-5647
- Challenge of West Sak heavy oil: analysis of an innovative approach. Gondouin, M., et al. [1991.eng] 50-1713
- Concrete TLP to sit out Barents bergs. Cottrill, A., [1990.eng] 50-3866
- Conglomerate identification and mapping leads to development success in a mature Alaskan field. O'Sullivan, T.P., et al. [1991.eng] 50-1756
- Development of an Alaskan North Slope soils database for drill cuttings reclamation. Schumacher, J.P., et al. [1991.eng] 50-1722
- Drilling smaller surface holes results in substantial cost savings. Krawietz, T.E., et al. [1991.eng] 50-1739
- Drilling waste disposal in the Arctic using below-grade freeze-back. Maunder, T.E., et al. [1991.eng] 50-1697
- Drilling wastes management for Alaska's North Slope. Fristoe, B.R., [1991.eng] 50-1723
- Effects of steam quality on cyclic steam stimulation at Cold Lake, Alberta. Ho, D.W., et al. [1991.eng] 50-1703
- Evaluation of vacuum-insulated tubing for paraffin control at Norman Wells. Purdy, I.L., et al. [1991.eng] 50-1727
- Evolving description of a fractured carbonate reservoir: the Lisburne Field, Prudhoe Bay, Alaska. Missman, R.A., et al. [1991.eng] 50-1755
- Exploratory oil drilling in the Beaufort Sea. Cottrill, A., [1986.eng] 50-5651
- Fishing with 1.5- and 1.75-in. coiled tubing at western Prudhoe Bay, Alaska. Mullin, M.A., et al. [1991.eng] 50-1699
- Gas measurement with large Venturi tubes at Prudhoe Bay, Alaska. Metz, W.P., et al. [1991.eng] 50-1759
- Geostatistical analysis of waterflood recoveries from an Alaskan drillsite. Wolcott, D.S., et al. [1991.eng] 50-1757
- Hibernia edges forward as bidding starts. Fox, C., [1988.eng] 50-4969
- How the Arctic's top field will be developed. [1987.eng] 50-4287
- Hydrogen sulfide forecasting techniques for the Kuparuk River Field. Frazer, L.C., et al. [1991.eng] 50-1729
- Injection profiling in the Kuparuk River Field, Alaska. Scott, H.D., et al. [1991.eng] 50-1741
- Lost circulation material usage in coiled tubing remedial cementing at Prudhoe Bay. Krause, R.E., [1991.eng] 50-1706
- Merging U.S., Canadian arctic areas considered. [1994.eng] 50-942
- New lightweight technology for the primary cementing of oil-field casings in cold environments. Harris, K.L., [1991.eng] 50-1705
- Offshore development in iceberg-infested waters with the use of a concrete protective barrier. Broughton, P., et al. [1991.eng] 50-1731
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge, Alaska. Department of Environmental Conservation. Division of Environmental Quality. [1990.eng] 50-3913
- Oil recovery from Alaskan tar sands using electromagnetic heating. Islam, M.R., et al. [1991.eng] 50-1760
- Oil-soluble resin-diverting agents in Prudhoe Bay acidizing operations. Strassner, J.E., et al. [1991.eng] 50-1698
- Oilwell casing downgrad from subsidence at Prudhoe Bay. Nair, K., et al. [1971.eng] 50-4196

Okhotsk Sea

- Optimal fracture stimulation of a moderate permeability reservoir, Kuparuk River unit. Pearson, C.M., et al. [1991.eng] 50-1701
- Optimizing fracture stimulations in the McArthur River oil reservoir, Alaska. Schoffmann, A.B. [1991.eng] 50-1750
- Primary and secondary containment of hazardous substances in cold regions with HDPE liner. Richards, F.T., et al. [1991.eng] 50-1710
- Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991. [1991.eng] 50-1696
- Shaft and Tunnel Access (SATAC) concepts for developing petroleum reserves. Haskin, C.A., et al. [1991.eng] 50-1742
- Shell to break Chukchi ice. [1989.eng] 50-5644
- Shell to the fore as Chukchi opens up. [1988.eng] 50-4968
- Use of acrolein as a hydrogen sulfide scavenger in multiphase production. Howell, J.J., et al. [1991.eng] 50-1704
- Waterflow monitoring enhancement of offshore Alaskan oil reservoir management. Starzer, M.R., et al. [1991.eng] 50-1712
- Wellbore multiphase-flow correlation for the eastern operating area of Prudhoe Bay. Bradley, D.A., [1991.eng] 50-1728
- World Oil's handbook of arctic well completions. Goodman, M.A., [1978.eng] 50-2057
- Okhotsk Sea**
- Comparisons between the Okhotsk Sea and the Baltic Sea ice. Shirasawa, K., et al. [1996.eng] 50-5904
- Construction of the Okhotsk frozen-sea observation tower. Sato, Y., et al. [1996.jp] 50-5873
- Distributed mass/discrete floe model for predicting pack ice motion. Matsuzawa, T., et al. [1996.jp] 50-5886
- Effects of sea ice cover on atmospheric methane over the Sea of Okhotsk. Lammers, S., et al. [1995.eng] 50-1147
- Fluctuations of thin ice area in the Sea of Okhotsk. Enomoto, H., [1996.jp] 50-5897
- Ice studies on the northern Sakhalin offshore. Truskov, P.A., et al. [1995.eng] 50-6316
- Raw oil and gas bedrock potential of organic matter sediments. Gretskaia, E.V., [1990.rus] 50-4942
- Relation between the Asian monsoon, Asian snow coverage, and Okhotsk sea ice. Sekine, Y., et al. [1996.eng] 50-5896
- Russia opens far east offshore. [1993.eng] 50-5440
- Sea of Okhotsk near-freezing diathermal layer variations. Yang, J.Y., et al. [1996.eng] 50-6219
- Shipboard observations of ice conditions off the Okhotsk Sea coast. Shimoda, H., et al. [1996.jp] 50-5898
- Transfer coefficients of radon-222 across the sea surface. Kholiński, S.N., et al. [1995.rus] 50-4120
- Uniaxial compressive strength of sea ice in Okhotsk Sea. Masaki, T., et al. [1996.jp] 50-5888
- What is an ice boom. Hokkaido Civil Engineering Research Institute. Fisheries Civil Engineering Laboratory (Suisan dokoku kenkyushitsu), [1994.jp] 50-2831
- Winter ice in Okhotsk Sea and spring and summer climate in north Japan. Yamada, Y., [1996.jp] 50-5903
- Operating costs**
- See [also]: Cost analysis
- Optical absorption**
- Diode laser humidity sensor for cold environments. Phase II final technical report. Silver, J.A., et al. [1991.eng] 50-4525
- Precipitation parameters in natural obscuration. Hogan, A.W., [1990.eng] 50-734
- Vertical light attenuation by phytoplankton absorption in the Greenland Sea. Dallestken, R., et al. [1995.eng] 50-4131
- Optical phenomena**
- Automated DIMM telescope for Antarctica. Dopita, M.A., et al. [1996.eng] 50-5270
- Elliptical halos, Bottlinger's rings, and the ice-plate snow-star transition. Tränkle, E., et al. [1996.eng] 50-6612
- Polar cap aurorae tell the time. Egeland, A., et al. [1995.eng] 50-1151
- Specular scattering and crystal dynamics in cirrus clouds. Lynch, D.K., et al. [1994.eng] 50-1115
- Optical properties**
- Analysis of lidar observations of polar stratospheric clouds. Toon, O.B., et al. [1990.eng] 50-5991
- Antarctic cloud scattering depth using ground-based radiometry. Ricchiuzzi, P., et al. [1995.eng] 50-1335
- Atmospheric absorption of solar radiation due to ice clouds. Gautier, C., [1995.eng] 50-957
- Atmospheric aerosol turbidity over polar regions. Radionov, V.F., et al. [1995.eng] 50-6326
- Background stratospheric aerosol and polar stratospheric cloud reference models. McCormick, M.P., et al. [1996.eng] 50-6712
- Calculation of spectral albedo for a melt pond. Makshtas, A., et al. [1995.eng] 50-2066
- Chlorophyll fluorescence in the Laptev Sea. Anoshkin, A.F., et al. [1995.eng] 50-2083
- Cirrus infrared parameters and shortwave reflectance relations from observations. Spinhrne, J.D., et al. [1995.eng] 50-5162
- Climatic implications of ice microphysics. Liou, K.N., [1995.eng] 50-958
- Cloud attenuation of ultraviolet radiation in alpine regions. Blumhaller, M., et al. [1996.eng] 50-3610
- Complex refractive indices in the infrared of nitric acid trihydrate aerosols. Richwine, L.J., et al. [1995.eng] 50-1188
- Detection of polar stratospheric clouds with ERS-2/GOME data. Meerkötter, R., [1995.eng] 50-2150
- Distribution of water in hailstones. Chylek, P., et al. [1984.eng] 50-4495

- Distributions of volcanic aerosols in antarctic polar stratospheric clouds. Adriani, A., et al. [1995.eng] 50-2848
- Downwelling radiation fluxes at the arctic surface based on parameterizations. Silcox, R.A., [1994.eng] 50-5303
- Ground-based remote sensing of cloud ice particle sizes. Matrosov, S.Y., et al. [1995.eng] 50-3257
- Ice cloud microphysics in a general circulation model, pt.2. Fowler, L.D., et al. [1996.eng] 50-5016
- Ice cloud microphysics in a general circulation model, pt.3. Fowler, L.D., et al. [1996.eng] 50-5017
- Ice crystal optical properties of cirrus clouds. Gayet, J.F., et al. [1996.eng] 50-3684
- Laboratory comparisons of organic materials to interstellar dust and the Murchison meteorite. Pendleton, Y.J., [1995.eng] 50-3025
- Laptev Sea System: Expeditions in 1994. Kassens, H., ed. [1995.eng] 50-3156
- Lidar observation of wintertime polar stratospheric clouds. Browell, E.V., et al. [1990.eng] 50-5989
- Light scattering effects on cloud thickness photometry. Zege, E.P., et al. [1994.eng] 50-2710
- Observational and theoretical studies of solar radiation in arctic stratus clouds. Herman, G.F., et al. [1984.eng] 50-4913
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995.eng] 50-1866
- On the particle characteristics of PSCs inferred from polarimetric experiment. Maslowska, A., et al. [1994.eng] 50-1114
- Optical backscatter characteristics of arctic polar stratospheric clouds. Kent, G.S., et al. [1990.eng] 50-5987
- Parameterization of cirrus optical depth and cloud fraction. Soden, B., [1995.eng] 50-960
- Parameterization of clouds and radiation in climate models. Roeckner, E., [1995.eng] 50-959
- Phase function calculations of single hexagonal bullet-like ice crystals. Liu, C.L., et al. [1995.eng] 50-4345
- Photometry of Mt. Pinatubo aerosols at Spitsbergen. Beyerle, G., et al. [1995.eng] 50-1183
- POST: Polar Stratospheric Telescope. Bely, P.Y., et al. [1995.eng] 50-2527
- Potential of using spaceborne millimeter wavelength radar for ice cloud studies. Matrosov, S.Y., et al. [1994.eng] 50-1113
- Radiative properties of cirrus clouds derived from surface interferometric measurements. Beck, G.H., et al. [1996.eng] 50-6569
- Radiative properties of finite inhomogeneous cirrus clouds. Monte Carlo simulations. Chylek, P., et al. [1995.eng] 50-1471
- Radiometry of cirrus cloud optical depths and ice crystal sizes. Ou, S.C., et al. [1995.eng] 50-3258
- Radiosonde examination of synoptical scale wind/cloud dynamics. Mace, G.G., et al. [1995.eng] 50-3256
- Role of spaceborne millimeter-wave radar in the global monitoring of ice cloud. Brown, P.R.A., et al. [1995.eng] 50-1247
- Scavenging of electrons and radicals in frozen chloride-alcohol glasses. Kalceński, J., [1996.eng] 50-3526
- Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces. Zibordi, G., et al. [1996.eng] 50-5467
- Spectral quality and absorption of solar radiation in a mountain birch forest. Abisko, Sweden. Ovsted, M., et al. [1995.eng] 50-2813
- Study of H₂O contamination on a cooled optical surface. Guo, Q., et al. [1995.eng] 50-6527
- Study of ice spectra in cosmic dust. Brooke, T.Y., et al. [1996.eng] 50-3964
- Surface morphology and backscattering of ice-ridge sails in the Baltic Sea. Manninen, A.T., [1996.eng] 50-4899
- Theoretical aspects of modeling backscattering by cirrus ice particles at millimeter wavelengths. Schneider, T.L., et al. [1995.eng] 50-3261
- Transition from normal to fast sound in liquid water. Sette, F., et al. [1996.eng] 50-5710
- Ultraviolet and visible solar irradiance at the Weddell-Scotia Confluence, spring 1993. Sikorski, R.J., et al. [1994.eng] 50-4244
- Volcanic perturbation of the atmosphere in both polar regions: 1991-1994. Herber, A., et al. [1996.eng] 50-3444
- Volcanic stratospheric loading derived from Greenland ice core measurements. Zielinski, G.A., [1995.eng] 50-1331
- See [also]: Albedo; Atmospheric attenuation; Attenuation; Ice crystal optics; Ice optics; Light transmission; Reflectivity; Snow optics; Transmissivity
- Optical transmission**
- See [also]: Ice crystal optics; Ice optics; Snow optics
- Organic nuclei**
- Alcohols in interstellar ice mantles. Charnley, S.B., et al. [1995.eng] 50-5101
- Applications of bacterial ice nucleation activity in food processing. Watanabe, M., et al. [1995.eng] 50-3287
- Applications of biological ice nucleators in spray-ice technology. LaDuca, R.J., et al. [1995.eng] 50-3289
- Atomic emission spectrometry of Greenland snow lead impurities. Łobinski, R., et al. [1995.eng] 50-4082
- Biochemistry of bacterial ice nuclei. Fall, R., et al. [1995.eng] 50-3274
- Biological control of insect pests using ice-nucleating microorganisms. Lee, R.E., Jr., et al. [1995.eng] 50-3284
- Biological ice nucleation and its applications. Lee, R.E., Jr., ed. [1995.eng] 50-3270
- Control of epiphytic ice nucleation-active bacteria for management of plant frost injury. Lindow, S.E., [1995.eng] 50-3283

- Deep supercooling in buds of woody plants. Quamme, H.A., [1995.eng] 50-3280
- Deep supercooling in woody plants and the role of cell wall structure. Wisniewski, M., [1995.eng] 50-3279
- Discovery of bacterial ice nucleation and its role in the injury of plants by frost. Upper, C.D., et al. [1995.eng] 50-3272
- Ecology of ice nucleation-active bacteria. Hirano, S.S., et al. [1995.eng] 50-3273
- Freezing tolerance in plants: an overview. Chen, T.H.H., et al. [1995.eng] 50-3277
- Historical records of fatty acids in an ice core from Site-J, Greenland. Kawamura, K., et al. [1995.eng] 50-3247
- Ice nucleation activity associated with plants and fungi. Ashworth, E.N., et al. [1995.eng] 50-3278
- Ice nucleation genes as reporters. Panopoulos, N.J., [1995.eng] 50-3285
- Ice nucleation-active genes and proteins. Warren, G.J., [1995.eng] 50-3275
- Kinetics of ice nucleation initiated by molecular crystals. Iatimiskii, V.K., et al. [1995.eng] 50-3815
- Lipid geochemistry of the Kara Sea bottom sediments. Beliaeva, A.N., et al. [1996.eng] 50-4867
- Molecular modeling of the three-dimensional structure of bacterial Ipa proteins. Kajava, A.V., [1995.eng] 50-3276
- Monitoring organic pollutants in the Arctic in 1992. Fellin, P., et al. [1996.eng] 50-4359
- Organic compounds produced by photolysis of simulated cometary ices. Bernstein, M.P., et al. [1995.eng] 50-2724
- Organic sedimentation in an arctic delta. Peulvé, S., et al. [1996.eng] 50-5819
- Particle fluxes in the Kara Sea and Ob and Yenisey estuaries. Lisitsyn, A.P., et al. [1995.eng] 50-3543
- Particulate organic matter in Terra Nova Bay in summer 1990. Fabiano, M., et al. [1996.eng] 50-3702
- Role of nucleation in cryopreservation. Fahy, G.M., [1995.eng] 50-3288
- Roles of ice nucleators in cold tolerant invertebrates. Duman, J.G., et al. [1995.eng] 50-3281
- Solid phase sedimentation in the Barents Sea. Hulth, S., et al. [1996.eng] 50-6723
- Stable carbon isotope ratios in the waters of the Laptev Sea/Sep. 94. Erlenkeuser, H., et al. [1995.eng] 50-2082
- Supercooling and ice nucleation in vertebrate ectotherms. Costanzo, J.P., et al. [1995.eng] 50-3282
- Transduction of *ina* genes for bacterial identification. Wolber, P.K., et al. [1995.eng] 50-3286
- Ultraviolet radiation effects on arctic lake water organic chemistry. Scully, N.M., et al. [1996.eng] 50-5820
- Organic soils**
- Accumulation rates of carbon in mires in Finland and implications for climate change. Tolonen, K., et al. [1995.eng] 50-6078
- Analyzing the transformation of organic matter in anthropogenically altered soil. Popov, A.I., et al. [1994.rus] 50-276
- Carbon in boreal coniferous forest soil. Westman, C.J., et al. [1994.eng] 50-3203
- Cold Waria stage in the light of palynological investigations. Jastrzebska-Mamekka, M., [1993.pol] 50-3656
- Composition, properties and radiocarbon age of humus in paleosols. Chichagova, O.A., [1995.eng] 50-1047
- Decomposition of needle litter in a forest ecosystem. Berg, B., et al. [1995.eng] 50-2731
- Ecologic-genetic analysis of tundra-steppe soils in northeastern Siberia. Cherniakovskii, D.A., [1996.eng] 50-5447
- Ecological aspects of the development of flat-polygonal bogs of Yamal. Kanev, V.V., et al. [1996.eng] 50-6580
- Effects of tree litter decomposition on forest soil composition. Harris, M.M., et al. [1996.eng] 50-3309
- Estimates of North American tundra ecosystem biomass. Gilmanov, T.G., et al. [1995.eng] 50-4864
- Humus conditions of oligotrophic tundra soils in Spitsbergen. Weber, L., et al. [1994.ger] 50-1594
- Late-glacial and early Holocene vegetation of Snowdonia. Ince, J., [1996.eng] 50-4254
- Mathematical models of ecosystem carbon cycle feedback effects. Ryzhova, I.M., [1996.eng] 50-5087
- Microbial responses to nitrogen additions in alpine tundra soil. Fisk, M.C., et al. [1996.eng] 50-6065
- Model for the development of sod-podzolic soils by windthrow. Vasenev, I.I., et al. [1995.eng] 50-2712
- Operational method to determine the optical density of humic acid in soils. Zhang, C.Y., et al. [1991.chi] 50-5137
- Organic carbon storage in the soils of the Russian Federation. Orlov, D.S., et al. [1996.eng] 50-5085
- Organic carbon variations in stream waters during snowmelt. Boyer, E.W., et al. [1995.eng] 50-2422
- Organic compounds in a permafrost sediment core from Siberia. Matsumoto, G.I., et al. [1995.eng] 50-3844
- Organic deposits at the bottom and top of sediments suggested to be Wartian. Goździk, J., et al. [1993.pol] 50-3654
- Petroleum-producing sequences in the Phanerozoic deposits of the arctic islands. Daniushevskaja, A.I., [1996.eng] 50-5704
- Response of soil carbon to climate change. McGuire, A.D., et al. [1995.eng] 50-4866
- Russian soil depletion by snowmelt. Chernyshev, E.V., et al. [1995.eng] 50-2148
- Organizations**
- 10th anniversary of the Polar Research Documents Workshop. Krawczyk, A., [1989.pol] 50-2934
- 1996 IASC meeting report. International Arctic Science Committee, [1996.eng] 50-4962

Orientation

- Annual report 1995. Arctic Institute of North America. [1996.eng] 50-2473
- Annual report 1995. National Snow and Ice Data Center. World Data Center-A for Glaciology. [1995.eng] 50-4604
- Arctic research at San Diego State University. [1996.eng] 50-5573
- Arctic science, engineering, and education—directory of awards: fiscal year 1994. United States. National Science Foundation. [1994.eng] 50-1553
- Biennial report 1993-1994. Alaska. University. Geophysical Institute. [1995.eng] 50-2450
- Biennial report, 1993-1994. Colorado. University. Institute of Arctic and Alpine Research (INSTAAR). [1995.eng] 50-43
- Chinese participation in the World Data Center for Glaciology. Part 2. Chen, X.Z., et al. [1995.chi] 50-3992
- Chinese participation in the World Data Center for Glaciology. Chen, X.Z., et al. [1995.chi] 50-3991
- Development of integrated ecological studies of the cryolithosphere. Zabrodin, V.A., et al. [1991.rus] 50-441
- Directory of United States arctic researchers: a preliminary compendium. Galbraith, B., ed. [1996.eng] 50-5657
- Disorder of organizational logic—makework among members of bureaucratic organizations. Masuch, M., et al. [1996.eng] 50-5671
- Drift ice off Hokkaido. [1992.jpn] 50-486
- Ecological conditions in the Barents Sea (institutes and literature catalogue). Doronin, N., [1992.eng] 50-20
- Ecological situation in Russia and environmental protection in Magadan. Chernenkii, B.I., [1991.rus] 50-439
- Environmental factors: conceptual design and current status. Hansson, R., et al. [1996.eng] 50-4436
- Fifty years of scientific research at the Chair of Cryolithology and Glaciology (1945-1995). Volkovskii, K.F., et al. [1995.rus] 50-4110
- First Poles in Antarctica—the beginnings of the history of our Antarctic studies. Zalewski, S.M., [1989.pol] 50-2872
- Frozen ground. [1995.eng] 50-2445
- Frozen ground. [1996.eng] 50-5661
- Great Lakes ice cover studies. U.S. National Oceanic and Atmospheric Administration. Great Lakes Environmental Research Laboratory (GLERL). Ann Arbor, MI. [1995.eng] 50-2479
- Information booklet on the Arctic and Antarctic Research Institute (Russia). Mustafin, N.V., [1993.eng] 50-19
- List of publications, No. 6, March 1996. Norsk Polarinstitutt (Norwegian Polar Institute). [1996.nor] 50-5656
- Nagaoka Institute of Snow and Ice Studies. [1992.jpn] 50-489
- Newsletter, No. 1, May 1995. International Permafrost Association. [1995.eng] 50-5147
- Newsletter, No. 2, Dec. 1986. International Permafrost Association. [1986.eng] 50-5148
- Newsletter, No. 3, Dec. 1987. International Permafrost Association. [1987.eng] 50-5149
- Newsletter, No. 4, Jan. 1988. International Permafrost Association. [1988.eng] 50-5150
- Newsletter, No. 5, Apr. 1989. International Permafrost Association. [1989.eng] 50-5151
- Organization of the river and flood program in the National Weather Service. Stallings, E.A., et al. [1995.eng] 50-1135
- Polar regions: a political geography. Chaurvedi, S., [1996.eng] 50-5926
- Progress report on studies to explain the mechanisms of desertification. [1989.jpn] 50-2034
- Report on establishing an interdisciplinary polar institute in Denmark. Denmark. Ministeriet for Grønland (Ministry for Greenland). [1985.dan] 50-4551
- Research recommendations from the previous conference, 7th. 1994. Kinney, T.C., et al. [1996.eng] 50-6123
- Science of the Siberian region; a discussion in the Presidium of the Russian Academy of Sciences. Mavrina, T.V., ed. [1995.rus] 50-4200
- Scientific basis for the construction of railroads. Pereselenkov, G.S., [1995.rus] 50-3082
- U.S. arctic policy aims for circumpolar cooperation. Senseney, R., [1995.eng] 50-955
- Witness the Arctic. Arctic Research Consortium of the United States. [1995.eng] 50-953

Orientation

- Action of HPLC6 antifreeze polypeptide in solution. Brooke-Taylor, C.A., et al. [1996.eng] 50-5298
- Cheap, quick and safe way of surveying glaciers. Wright, J.W., et al. [1995.eng] 50-2995
- Comparison of ice-sheet satellite altimeter retracking algorithms. Davis, C.H., [1996.eng] 50-2703
- Cooperative polarisation in ice I_h and the unusual strength of the hydrogen bond. Heggie, M.J., et al. [1996.eng] 50-3958
- Effect of X-radiation on the plastic deformation of ice. Hu, X.H., et al. [1996.eng] 50-5866
- Electrodynamics of the upper atmosphere and radio aurora in the northern polar cap. Kustov, A.V., et al. [1994.eng] 50-1964
- Experimental study of skiing turns, pt. 3. Sahashi, T., et al. [1996.eng] 50-5919
- Geostatistical analysis of waterflood recoveries from an Alaskan drillsite. Wolcott, D.S., et al. [1991.eng] 50-1757
- Grain multiplication mechanism for sea ice transition zone formation. Wei, Y.C., et al. [1995.eng] 50-1143
- Ice flow vectors on the debris-mantled Tasman Glacier, 1957-1986. Kirkbride, M., [1995.eng] 50-2717
- Ice plate absorption of infrared radiation. Popov, A.A., et al. [1994.eng] 50-1284

- Ice-flow indications of complex Alaskan deglaciation events. Syverson, K.M., [1995.eng] 50-1801
- Light scattering by hexagonal ice prisms. 1. Small scattering angles. Petrushin, A.G., [1994.eng] 50-2709
- Marine geophysical investigations in the Laptev Sea and the western part of the East Siberian Sea. Roesser, H.A., et al. [1995.eng] 50-2106
- Neutron scattering of high pressure ice polymorphs. Li, J.C., et al. [1996.eng] 50-6344
- Observation of slip transmission through a grain boundary in ice. Jia, K., et al. [1996.eng] 50-5297
- On the scattering behaviour of bullet-rosette and bullet-shaped ice crystals. Strauss, B., [1996.eng] 50-6228
- Orientation dependence of elastic constants for ice. Parameswaran, V.R., [1987.eng] 50-4223
- Phase function calculations of single hexagonal bullet-like ice crystals. Liu, C.L., et al. [1995.eng] 50-4345
- Polar cap aurorae tell the time. Egeland, A., et al. [1995.eng] 50-1151
- Quaternary glacial transport in the Hudson Bay region. Parent, M., et al. [1995.eng] 50-4527
- Radar observation of ice crystal orientation in thunderstorms. Caylor, I.J., et al. [1996.eng] 50-5684
- Sea ice scouring on the inner shelf of the southeastern Canadian Beaufort Sea. Héquette, A., et al. [1995.eng] 50-1830
- Snow crystal imaging using scanning electron microscopy: I. Precipitated snow. Rangó, A., et al. [1996.eng] 50-4566
- Specular scattering and crystal dynamics in cirrus clouds. Lynch, D.K., et al. [1994.eng] 50-1115
- Straight line measurements of an open four-sided figure. Hofmann, W., [1958.ger] 50-4633
- Structure of amphiphile monolayer adsorbed on ice Ih. Bell, K.P., et al. [1996.eng] 50-4023
- Structure of ice Ih from analysis of single-crystal neutron diffuse scattering. Nield, V.M., et al. [1995.eng] 50-2696
- Surface morphology and backscattering of ice-ridge sails in the Baltic Sea. Manninen, A.T., [1996.eng] 50-4899
- Time dependence of dislocation arrays in ice during recrystallization. van der Elstken, J., et al. [1996.eng] 50-6346
- Wind-induced ice floe rotation and icequakes north of the Alaskan Beaufort Sea coast. Kozo, T.L., et al. [1996.eng] 50-6508
- X-ray topographic study of ice crystal dislocations. Liu, F.P., et al. [1992.eng] 50-5958

See [also]: Slope orientation

Origin

- "Ice Mountain"—a Pleistocene relict in the north of West Siberia. Rajamäe, R., et al. [1989.eng] 50-2897
- Arctic atmospheric composition during episodic air pollution. Lejenäs, H., et al. [1996.eng] 50-6710
- Arctic haze phenomenon. Shaw, G.E., [1995.eng] 50-4569
- Biomass burning signatures in Greenland snow and atmosphere. Dibb, J.E., et al. [1996.eng] 50-3152
- Detection of air pollution at a Svalbard mountain station. Beine, H.J., et al. [1996.eng] 50-5205
- Fingerprinting hydrocarbons in the biological resources of the Exxon Valdez spill area. Bence, A.E., et al. [1995.eng] 50-3916
- Genotoxicity of snow in the Montreal metropolitan area. White, P.A., et al. [1995.eng] 50-1567
- Glacial or non-glacial origin for the Bigganjarga tillite, Finnmark, northern Norway. Jensen, P.A., et al. [1996.eng] 50-4395
- Greenland atmospheric aerosol composition during a foehn. Kikuchi, K., et al. [1996.eng] 50-6216
- Heavy metal concentrations in peat profiles from the high Arctic. Headley, A.D., [1996.eng] 50-3721
- High precision ^{230}Th and ^{234}Th in the Norwegian Sea and Denmark by thermal ionization mass spectrometry. Moran, S.B., et al. [1995.eng] 50-2022
- Isotopic tracing of nitrate sources in snowmelt runoff. Kendall, C., et al. [1995.eng] 50-2426
- Long-range tropospheric transport of pollution aerosols into the Alaskan Arctic. Raatz, W.E., et al. [1984.eng] 50-4722
- On the age of stratospheric air and inorganic chlorine and bromine release. Daniel, J.S., et al. [1996.eng] 50-6331
- Pliocene sand ridges at the Barents Sea margin. Knutsen, S.M., et al. [1996.eng] 50-5314
- Prince William Sound, Alaska beach tar ball origins. Kvenvolden, K.A., et al. [1995.eng] 50-1864
- Saharan dust recorded in Swiss alpine snow cover. Schwikowski, M., et al. [1995.eng] 50-778
- Seismo-acoustic studies in a flooded caldera on Deception Island. Kowalewski, W., et al. [1989.pol] 50-2878
- Sources of acidity in fresh snowfall elemental concentrations. Baisden, W.T., et al. [1995.eng] 50-2126
- Sources of biogenic sulfur in the high Arctic. Hopke, P.K., et al. [1995.eng] 50-589
- Statistical analysis of lithology of Arctic Ocean sediments. Darby, D.A., et al. [1996.eng] 50-5025

Orographic effects

See [also]: Topographic effects

Oscillations

- Coupled vertical and horizontal galloping—discussion. Havard, D.G., et al. [1993.eng] 50-3253
- Effects of floating ice cracks on propagation of flexural waves. Bukatov, A.E., et al. [1996.eng] 50-3410
- Ice buoy tests of Barents Sea tidal motions. Pease, C.H., et al. [1995.eng] 50-2776
- Instability trends of inertially coupled galloping, part 1: initiation. Yu, P., et al. [1995.eng] 50-1053

Outwash

- Instability trends of inertially coupled galloping, part 2: periodic variations. Yu, P., et al. [1995.eng] 50-1054
- Long-term trend in sea ice thickness variation in the Arctic basin. Nagurnyi, A.P., [1995.eng] 50-5479
- Marine fossils and glacial history of raised beach deposits around Lützow-Holm Bay. Igarashi, A., et al. [1995.eng] 50-3695
- Mixing in ice-covered lakes. Bengtsson, L., [1996.eng] 50-6579
- Nonlinear acoustic effects due to cracks in ice cover. Ekimov, A.E., et al. [1996.eng] 50-5291
- Oscillatory behavior in arctic sea ice concentrations. Gloersen, P., et al. [1996.eng] 50-4300
- Perturbation-based finite element analyses of transmission line galloping. Desai, Y.M., et al. [1996.eng] 50-4291
- Results of the studies of natural deformations of sea ice fields. Smirnov, V.N., et al. [1990.eng] 50-96
- Singularities in simulation of ice sheet-solid impact regime. Darr, D.G., et al. [1995.eng] 50-2163
- Some effects of conductor twisting on galloping. Richardson, A.S., Jr., [1980.eng] 50-3698

See [also]: Glacier oscillation; Vibration

Outwash floods

- Glaciers: a water resource. Meier, M.F., et al. [1995.eng] 50-3801

Outwash

- Ablation of debris-covered ice at Burroughs Glacier. Syverson, K.M., et al. [1995.eng] 50-3739
- Analysis of stone size and shape in arctic environments. King, C.A.M., et al. [1968.eng] 50-5760
- Braided outwash fans in the Gulf of Alaska. Boothroyd, J.C., et al. [1975.eng] 50-4814
- Catastrophic mass movements in the mountains around the Qinghai-Xizang Plateau. Fort, M., et al. [1995.eng] 50-4835
- Debris transfer and sedimentary environments: alpine glaciated areas. Johnson, P.G., [1995.eng] 50-4828
- Depositional sequences in glaciolacustrine deltas. Gustavson, T.C., et al. [1975.eng] 50-4818
- Dissolution kinetics, subglacial pathways and solute content of alpine meltwater. Collins, D.N., [1995.eng] 50-6045
- Dissolution kinetics, subglacial pathways and solute content of meltwater. Collins, D.N., [1995.eng] 50-3124
- Early studies on stratified drift. Jopling, A.V., [1975.eng] 50-4807
- Erosion by water flowing under ice. Tietze, W., [1961.ger] 50-5747
- Erosion of the Laurentide region of North America by glacial and glaciofluvial processes. Bell, M., et al. [1990.eng] 50-1789
- Eruption-triggered flood from a glacier-clad volcano in Columbia. Thoutet, J.C., et al. [1995.eng] 50-4830
- Fabric and structure in glaciofluvial gravels. Rust, B.R., [1975.eng] 50-4816
- Flux and preservation of organic carbon in Baffin Island fjords. Syvitski, J.P.M., et al. [1990.eng] 50-924
- Formation mechanism of the marginal zone of the Warta ice sheet. Terpiłowski, S., [1993.pol] 50-3666
- Fresh water in Svalbard fjord ecosystems. Węglowski, J.M., et al. [1995.eng] 50-4137
- Geoscientific Spitsbergen Expedition 1990-1992. Blümel, W.D., ed. [1994.ger] 50-1574
- Glacial and fluvial geomorphology of western Himalaya (Liddar Valley). Kaul, M.N., [1990.eng] 50-5550
- Glacial dynamics, material transfer and sedimentation in Spitsbergen. Solid, J.L., et al. [1994.eng] 50-1585
- Glacial genesis of the high terraces of the Lower Liswarta River. Kobojek, S., et al. [1993.pol] 50-3660
- Glacial processes, sediments, landforms, and stratigraphy at Myrdalsjøkulen. Krüger, J., [1994.eng] 50-166
- Glacial terrestrial deposition. Whiteman, C.A., [1995.eng] 50-3589
- Glacimarine deposits in southwestern Sweden. Stevens, R.L., [1990.eng] 50-930
- Glaciofluvial and glaciolacustrine sedimentation. Jopling, A.V., ed. et al. [1975.eng] 50-4806
- Glaciofluvial sedimentation in the vicinity of Warta during the Warta Glaciation. Grzybowski, K., [1993.pol] 50-3655
- Glaciolacustrine environments. Ashley, G.M., [1995.eng] 50-3593
- Ice-proximal sediment dynamics in Glacier Bay. Hunter, L.E., et al. [1995.eng] 50-3735
- Iceberg furrows as paleowind indicators in Lake Ojibway. Veilleux, J.J., et al. [1996.eng] 50-2498
- Iceland glacier drainage and sandar formation. Heim, D., [1992.ger] 50-364
- Interpretation of faults in glaciofluvial sediments. McDonald, B.C., et al. [1975.eng] 50-4810
- Late Quaternary subaqueous outwash deposits near Ottawa, Canada. Rust, B.R., et al. [1975.eng] 50-4813
- Late Wisconsinian outwash in southeastern British Columbia. Clague, J.J., [1975.eng] 50-4815
- Loess layer and the palaeoclimate of northern piedmont of Tian Shan. Zhang, H.Y., et al. [1985.chi] 50-2003
- Mapping the architecture of glaciofluvial sediments with three-dimensional georadar. Beres, M., et al. [1995.eng] 50-2529
- Mechanism of the development of the Pomeranian Phase marginal zone in the Lake Drawa district. Kąsy, P., [1990.pol] 50-5004
- Modern glacial environments: processes, dynamics and sediments. Menzies, J., ed. [1995.eng] 50-3580

Oxygen

Ozone

- Nature of esker sedimentation. Banerjee, I., et al. [1975,eng] 50-4811
- On the sedimentary environment of the glaciofluvial terraces of the Tian Shan Mountains near Urumqi. Han, S.T., [1985,chi] 50-2002
- Paleoenvironmental implications of modern periglacial eolian deposits. Dijkman, J.W.A., et al. [1991,eng] 50-5172
- Paraglacial coasts. Forbes, D.L., et al. [1994,eng] 50-493
- Particle interaction in fjord suspended sediment. Syvitski, J.P.M., et al. [1981,eng] 50-3764
- Permafrost in glaciofluvial sediments of the last glaciation. Habbe, K.A., [1993,eng] 50-1678
- Petroleum in glacially-related sandstones of Gondwana: a review. Potter, P.E., et al. [1995,eng] 50-3252
- Pleistocene glaciations in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1993,eng] 50-1677
- Postglacial sedimentation in the Liefdefjord area, NW Spitsbergen. Baumhauer, R., et al. [1994,ger] 50-1581
- Preliminary results from research on proglacial outwash in Spitsbergen. Marciniak, K., et al. [1989,pol] 50-2915
- Proglacial fluvial and lacustrine environments. Church, M., et al. [1975,eng] 50-4808
- Quaternary periglacial conditions of a Himalayan river valley fill. Mar, B.S., et al. [1994,eng] 50-5548
- Quaternary terraces and related deposits in the western Wind River Basin, Wyoming. Jaworowski, C., [1993,eng] 50-702
- Recent fluvial sediment budgets in glacial and periglacial environments, NW Spitsbergen. Barsch, D., et al. [1994,eng] 50-1584
- Revision of the lateglacial Swedish varve chronology. Strömberg, B., [1990,eng] 50-1791
- Rhythmic sedimentation in Glacial Lake Hitchcock, Massachusetts-Connecticut. Ashley, G.M., [1975,eng] 50-4820
- Sandbanks in river beds in the foreground of Hørbye Glacier, Spitsbergen. Rachlewicz, G., [1989,pol] 50-2894
- Sediment transport and discharge in a high arctic catchment (Liefdefjorden, NW Spitsbergen). Barsch, D., et al. [1994,eng] 50-1545
- Sediment transport in glacial meltwater streams. Østrem, G., [1975,eng] 50-4809
- Sedimentary and hydrologic processes within modern terrestrial valley glaciers. Lawson, D.E., [1995,eng] 50-3591
- Sedimentary successions in Pleistocene ice-marginal lakes. Shaw, J., [1975,eng] 50-4819
- Sedimentation and physical limnology in proglacial Malaspina Lake, southeastern Alaska. Gustavson, T.C., [1975,eng] 50-4817
- Sedimentation in glacier-fed Peyto Lake. Chikita, K., [1992,eng] 50-6642
- Sedimentology of the Brampton esker in Ontario. Saunderson, H.C., [1975,eng] 50-4812
- Sediments and landforms of modern proglacial terrestrial environments. Maizels, J., [1995,eng] 50-3592
- Sediments in the Liefdefjord and Woodfjord of Spitsbergen. Kroemer, E.A., et al. [1994,eng] 50-1580
- Skógar Tephra, a Younger Dryas marker in North Iceland. Nordahl, H., et al. [1992,eng] 50-2548
- Soil development on a glacier foreland, Kerguelen Is. Frenot, Y., et al. [1995,eng] 50-71
- Suspended sediments and organic carbon in Glacier Bay fjords. Cowan, E.A., [1995,eng] 50-3734
- Taku Glacier, southeast Alaska, U.S.A.: Late Holocene history of a tidewater glacier. Motyka, R.J., et al. [1996,eng] 50-4335
- Thermoluminescence ages of loess and associated sediments in central Nebraska, USA. Pye, K., et al. [1995,eng] 50-2166
- Vegetation chronosequence near Exit Glacier, Kenai Fjords National Park, Alaska, U.S.A. Helm, D.J., et al. [1995,eng] 50-3325
- Oxygen**
- Metabolism of deep-sea sponges in the Greenland-Norwegian Sea. Witte, U., et al. [1996,eng] 50-6613
- O₂ on Ganymede: spectral characteristics and plasma formation mechanisms. Calvin, W.M., et al. [1996,eng] 50-4256
- Oxygen isotopes**
- Challenging an ice-core paleothermometer. MacAyeal, D.R., [1995,eng] 50-628
- Chronostratigraphy of Warta loesses and correlation with glacial deposits in Poland. Maruszczak, H., [1993,pol] 50-3664
- Climate of the penultimate ice age according to data from an antarctic ice core. Kotliakov, V.M., et al. [1993,rus] 50-4103
- Contrasting atmospheric and paleoclimate dynamics. Ditlevsen, P.D., et al. [1996,eng] 50-3352
- Danish lacustrine sediment evidence of paleoclimatological variability. Hammarlund, D., et al. [1996,eng] 50-5826
- Distribution of $\delta^{18}\text{O}$ in precipitation on the Qinghai-Xizang Plateau. Zhang, X.P., et al. [1995,eng] 50-4512
- Evidence of paleoclimatic snow melt in lacustrine mountain deposits. Norris, R.D., et al. [1996,eng] 50-5082
- Four Scandinavian glaciations in the Vistula Gap of the South Polish Uplands. Potaryski, W., et al. [1995,eng] 50-2612
- Glacier properties on Mt. Qogir, Karakorum. Qin, D.H., et al. [1994,eng] 50-1538
- Glacier river water study in Austre Okstindbreen Basin. Theakstone, W.H., et al. [1994,eng] 50-5700
- Greenland ice sheet climate record of the past 16,500 years. Stuiver, M., et al. [1995,eng] 50-2015
- Holocene environmental changes in a Tibetan lake basin, pt.4. Gasse, F., et al. [1996,eng] 50-5093
- Ice-wedge formation in northern Asia during the Holocene. Vasilchuk, I.U.K., et al. [1996,eng] 50-6705
- Isotope analysis of Greenland ice sheet stratigraphic disturbances. Fuchs, A., et al. [1996,eng] 50-5461
- Isotope techniques in permafrost investigations. Michel, F.A., [1989,eng] 50-2261
- Isotopic and ionic variations in glacier river water during three contrasting ablation seasons. Theakstone, W.H., et al. [1996,eng] 50-6085
- Isotopic calibration of Canadian arctic climatic change records. Beltrami, H., et al. [1995,eng] 50-3682
- Isotopic tracing of nitrate sources in snowmelt runoff. Kendall, C., et al. [1995,eng] 50-2426
- Little Ice Age evidence from a south-central North American ice core. U.S.A. Naftz, D.L., et al. [1996,eng] 50-4334
- Loess sediment isotopic properties related to paleoclimate. Li, C.Y., et al. [1995,eng] 50-1555
- Paleoclimatic implications of lacustrine ostracod ecology. Heaton, T.H.E., et al. [1995,eng] 50-2859
- Paleogeographic conditions for the formation of ice in homogeneous age varved clays. Karpov, E.G., et al. [1996,rus] 50-6377
- Plio-Pleistocene megacycles: record of climate and tectonics. Kukla, G., et al. [1996,eng] 50-5099
- Possible use of the oxygen isotope method to study ground ice and permafrost. Vaikmae, R.A., [1990,rus] 50-1629
- Reconstruction of the paleotemperature of the air according to ground ice isotopes. Koniakhin, M.A., [1990,rus] 50-1632
- Relations between weather systems affecting Tibetan Plateau and oxygen isotope in precipitation. Zhang, X.P., et al. [1995,chi] 50-5619
- Ozone**
- 1-D model of the formation and evolution of polar stratospheric clouds. Panegrossi, G., et al. [1996,eng] 50-3812
- 1989 ozone hole. Nichol, S.E., et al. [1991,eng] 50-6421
- 2xCO₂ experiment with prescribed changes in sea surface temperature. Mahfouf, J.-F., et al. [1992,eng] 50-226
- Aerosols used as tracers for stratosphere-troposphere exchange in the Arctic. Foltescu, V.L., et al. [1995,eng] 50-777
- Airborne Arctic Stratospheric Expedition: prologue. Turco, R.P., et al. [1990,eng] 50-5973
- Airborne lidar observations in the wintertime arctic stratosphere: ozone. Brownell, E.V., et al. [1990,eng] 50-5976
- Airborne Polar Experiment. CNR Direzione Centrale Attività Scientifiche, [1994,eng] 50-6197
- ALOMAR—a new facility for middle atmosphere research at arctic latitudes. Thrane, E.V., et al. [1995,eng] 50-4261
- Antarctic macroalgae—sources of volatile halogenated organic compounds. Laturnus, F., et al. [1996,eng] 50-5594
- Antarctic phytoplankton and DNA library from communities exposed to ultraviolet-B. Jovine, R.V.M., et al. [1994,eng] 50-4246
- Arctic and antarctic ozone depletion inferred from radiometric soundings. MacKenzie, I.A., et al. [1996,eng] 50-5768
- Arctic ozone depletion observed by UARS MLS during the 1994-95 winter. Manney, G.L., et al. [1996,eng] 50-3603
- Arctic ozone hole—a myth or a possibility. Singh, O.N., et al. [1995,eng] 50-4529
- Atmospheric deposition and pollutant exposure of eastern U.S. forests. Mohren, V.A., [1992,eng] 50-4052
- Atmospheric ozone as a climate gas: general circulation model simulations. Wang, W.C., ed, et al. [1995,eng] 50-1771
- Atmospheric ozone, its depletion and antarctic ozone hole. Ghosh, S.N., et al. [1994,eng] 50-1687
- Balloon sounding of arctic stratospheric chemistry. Kondo, Y., et al. [1990,eng] 50-5999
- Behavior of tropospheric and stratospheric ozone in The Arctic and Antarctica. Taalas, P., [1993,eng] 50-4769
- Behaviour of stratospheric and upper tropospheric ozone in high latitudes. Kyro, E., et al. [1994,eng] 50-3189
- Big freeze digs a deeper hole in ozone layer. Pearce, F., [1996,eng] 50-4204
- Boundary-layer ozone depletion as seen in the Norwegian arctic in spring. Solberg, S., et al. [1996,eng] 50-4152
- Brazilian solar observations of the 1992 ozone hole. Kirchhoff, V.W.J.H., et al. [1993,eng] 50-562
- Bromine-chlorine coupling in the antarctic ozone hole. Danilin, M.Y., et al. [1996,eng] 50-3065
- Bromofrom emission from ice algae and arctic ozone depletion. Buckley, P.T., [1993,eng] 50-700
- Calculations of ozone destruction during the 1988/89 arctic winter. McKenna, D.S., et al. [1990,eng] 50-6025
- CAO data on the dependence of ozone density and relative mixture on angle of maximum solar elevation. Poliakova, E.A., et al. [1992,rus] 50-137
- Changes in ultraviolet radiation reaching the Earth's surface. Madronich, S., et al. [1995,eng] 50-4197
- Chemical and physical conversion in cold atmosphere and the effect of radiation. Kulmala, M., et al. [1994,eng] 50-3187
- Chemical reactions in the polar stratosphere. Seisel, S., [1996,ger] 50-4734
- Chemistry of ozone in the upper troposphere and lower stratosphere. Ravishankara, A.R., [1995,eng] 50-1777
- Chlorine monoxide in the antarctic spring vortex, pt.2. Shindell, D.T., et al. [1996,eng] 50-3018
- Cloud attenuation of ultraviolet radiation in alpine regions. Blumhauer, M., et al. [1996,eng] 50-3610
- Concurrent ozone and temperature trends derived from ozonesonde stations. Fortuin, J.P.F., et al. [1995,eng] 50-1774
- Connections between atmospheric ozone, the climate system and UV-B-radiation in the Arctic. Taalas, P., et al. [1995,eng] 50-1779
- Decadal evolution of the antarctic ozone hole. Jiang, Y., et al. [1996,eng] 50-5253
- Direct measurements of atmospheric ozone at Zhongshan Station, Antarctica. Kong, Q.X., et al. [1996,chi] 50-5679
- Dynamical influences on the antarctic ozone hole. Harvey, M.W., et al. [1996,eng] 50-6648
- Effect of dynamical mixing in a simple model of the ozone hole. Edouard, S., et al. [1996,eng] 50-6332
- Effect of volcanic aerosols on ultraviolet radiation in Antarctica. Tsitas, S.R., et al. [1996,eng] 50-3066
- Effects of air pollution on carbon allocation in red spruce. McLaughlin, S.B., et al. [1992,eng] 50-4058
- Estimating the energy contribution of precipitating electrons to total ozone. Osechkin, V.V., [1994,rus] 50-4105
- Evidence for arctic ozone depletion in late February and early March 1994. Manney, G.L., et al. [1995,eng] 50-4540
- Evidence for midwinter chemical ozone destruction over Antarctica. Vömel, H., et al. [1995,eng] 50-754
- Evidence for the removal of gaseous HNO₃ inside the arctic polar vortex in January 1992. Höpner, M., et al. [1996,eng] 50-3064
- Future chlorine-bromine loading and ozone depletion. Prather, M.J., et al. [1991,eng] 50-2787
- GCM modeling of the stratospheric dynamics and its coupling with chemistry. Cariolle, D., et al. [1995,eng] 50-1773
- GCM study of the climatic effect of 1979-1992 ozone trend. Liang, X.Z., et al. [1995,eng] 50-1776
- Global three-dimensional constituent fields derived from profile data. Douglass, A.R., et al. [1990,eng] 50-6018
- HCl on stratospheric ice. Gertner, B.J., et al. [1996,eng] 50-4859
- Heterogeneous atmospheric bromine chemistry. Lary, D.J., et al. [1996,eng] 50-3019
- Heterogeneous chemistry of polar stratospheric clouds. Mather, J.H., et al. [1990,eng] 50-4726
- Heterogeneous processes: laboratory, field, and modeling studies. Poole, L.R., et al. [1991,eng] 50-2784
- High-resolution ultraviolet spectral irradiance monitoring in polar regions. Booth, C.R., et al. [1994,eng] 50-4242
- High-resolution ultraviolet spectral irradiance monitoring program in polar regions. Booth, C.R., et al. [1993,eng] 50-593
- Hydrogen species partitioning in the arctic stratosphere. Schiller, C., et al. [1996,eng] 50-5766
- Impact of heterogeneous reactions on stratospheric chemistry of the Arctic. Douglass, A.R., et al. [1989,eng] 50-4708
- Impact of stratospheric flight on ozone and water vapor. Rind, D., et al. [1995,eng] 50-627
- Impact of stratospheric flight on ozone. Pitari, G., et al. [1995,eng] 50-557
- Kinetic measurements of the ClO + O₃ → ClOO + O₂ reaction. Stevens, P.S., et al. [1990,eng] 50-4727
- Laboratory simulation of polar stratospheric cloud formation. Iraci, L.T., et al. [1995,eng] 50-1333
- Lagrangian transport calculations using UARS data. Part II: ozone. Manney, G.L., et al. [1995,eng] 50-365
- Lidar measurements of arctic polar ozone depletion. Wirth, M., et al. [1996,eng] 50-5286
- Lidar of Canadian arctic stratospheric ozone. Donovan, D.P., et al. [1995,eng] 50-3095
- Loss of ozone in the arctic vortex for the winter of 1989. Salawitch, R.J., et al. [1990,eng] 50-6027
- Low ozone concentrations in mid-latitude ice clouds. Reichardt, J., et al. [1996,eng] 50-6543
- Measurements of Alaskan spring atmospheric ozone content. Beine, H.J., et al. [1996,eng] 50-6640
- Measurements of upward turbulent ozone fluxes above a subarctic spruce-fir forest. Zeller, K., et al. [1996,eng] 50-5289
- Mending the ozone hole: science, technology, and policy. Makhluf, A., et al. [1995,eng] 50-2523
- Mesospheric ozone investigations in south polar regions. Brezgin, N.I., et al. [1992,rus] 50-136
- Meteor-3/TOMS observations of the 1994 ozone hole. Herman, J.R., et al. [1995,eng] 50-3092
- Meteorological conditions of the antarctic ozone hole. Cisneros, J.M., [1990,spa] 50-5527
- Meteorological observations at Showa Station by JARE-33 in 1992. Matsuhara, K., et al. [1995,jpn] 50-4554
- Mid stratospheric ozone minima in polar regions. Austin, J., et al. [1995,eng] 50-1181
- Missing chemistry of reactive nitrogen in the upper stratospheric polar winter. Kawa, S.R., et al. [1995,eng] 50-1189
- Model calculations of ozone depletion in the arctic polar vortex for 1991/92 to 1994/95. Chipperfield, M.P., et al. [1996,eng] 50-3551
- Molecules on ice. Clary, D.C., [1996,eng] 50-4858
- Numerical modeling of heterogeneous ozone depletion in polar stratospheric clouds. Smyshlaev, S.P., [1994,eng] 50-2109
- O₃ and NO₂ fluxes over snow measured by eddy correlation. Stocker, D.W., et al. [1995,eng] 50-2151
- Observation of a new absorption band of HOBr and its atmospheric implications. Barnes, R.J., et al. [1996,eng] 50-3968
- Observational studies of the role of polar regions in mid-latitude ozone loss. Jones, R.L., et al. [1995,eng] 50-3094
- Observational study of the 93 "Ozone Hole" at Zhongshan Station, Antarctica. Zheng, X.D., et al. [1995,eng] 50-564
- Observations of polar stratospheric clouds in the arctic winter 1989 at 79°N. Krüger, B.C., [1990,eng] 50-5984
- Origin of tropospheric ozone at remote high northern latitudes in summer. Mauzerall, D.L., et al. [1996,eng] 50-3449
- Ozone abundance, cloud effects, and spectral irradiance. Stannnes, K.H., et al. [1991,eng] 50-1417

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- Ozone and aerosol correlated observations at Thule, Greenland, in the period 1991-1994. Di Sarra, A., et al. [1995,eng] 50-2849
- Ozone and NO₂ observations within the antarctic polar vortex. Gil, M., et al. [1990,spa] 50-5526
- Ozone and temperature trends. Stolarski, R., et al. [1991,eng] 50-2783
- Ozone anomalies during the Arctic Boundary Layer Experiment. Smarsh, D.A., [1994,eng] 50-677
- Ozone deposition in a snow-covered subalpine spruce-fir forest environment. Zeller, K., et al. [1995,eng] 50-2394
- Ozone deposition in a subarctic woodland, pt.1. Munger, J.W., et al. [1996,eng] 50-6641
- Ozone hole and the 1995 Nobel Prize in chemistry. Berger, A., [1996,fre] 50-5924
- Ozone hole reemerges above the Antarctic. Monastersky, R., [1995,eng] 50-936
- Ozone hole. Hall, T.M., [1996,eng] 50-4995
- Ozone in northern Europe and in Antarctica, 1987-1990. Taalas, P., [1992,eng] 50-5272
- Ozone layer concentration over the Weddell Sea. Elanskii, N.F., et al. [1995,eng] 50-6328
- Ozone layer: the road not taken. Prather, M., et al. [1996,eng] 50-5214
- Ozone loss in middle latitudes and the role of the arctic polar vortex. Pyle, J.A., [1995,eng] 50-5230
- Ozone observations on Antarctic Peninsula. Taalas, P., et al. [1993,spa] 50-3554
- Photodissociation of condensed films of chlorine dioxide. Lanzendorf, E.J., et al. [1996,eng] 50-6679
- Photooxidants in the marine arctic troposphere in summer. Weller, R., et al. [1996,eng] 50-5255
- Physiological responses of *Pinus sylvestris* on changing carbon dioxide and ozone concentration. Holopainen, T., et al. [1994,eng] 50-3232
- Phytoplankton response to fluctuating UVB. Karentz, D., et al. [1995,eng] 50-1323
- Planetary waves in total ozone and their relation to antarctic ozone depletion. Bodeker, G.E., et al. [1995,eng] 50-4541
- Polar Ozone and Aerosol Measurement instrument. Glaccum, W., et al. [1996,eng] 50-5765
- Polar stratospheric cloud influence on arctic atmospheric chemistry. Jones, R.L., et al. [1990,eng] 50-6023
- Polar stratospheric clouds observed by lidar at McMurdo Station during the 1993 winter. Adriani, A., et al. [1994,eng] 50-4239
- Precision measurements and theoretical calculations for solar ultraviolet radiation. Jokela, K., et al. [1994,eng] 50-3190
- Preliminary results from POAM II: stratospheric ozone at high northern latitudes. Randall, C.E., et al. [1995,eng] 50-1213
- Pressure dependence of the reaction between ClO and ClO at 226K. Parr, A.D., et al. [1990,eng] 50-4733
- Radiation and ozone data at Zhongshan and Great Wall stations, 1993-1994. Bian, L.G., et al. [1995,eng] 50-5916
- Radiative forcing of climate. Ramaswamy, V., et al. [1991,eng] 50-2786
- Radiative heating rates during the Airborne Arctic Stratospheric Expedition. Rosenfeld, J.E., et al. [1990,eng] 50-5981
- Recent trends in ozone changes and increased greenhouse gases. Graf, H.F., et al. [1995,eng] 50-1775
- Reconstruction of O₃ and N₂O fields from ER-2, DC-8, and balloon observations. Lait, L.R., et al. [1990,eng] 50-6017
- Record low ozone at McMurdo Station in spring of 1993. Johnson, B.J., et al. [1994,eng] 50-4238
- Record low Siberian ozone levels. Bojkov, R.D., et al. [1995,eng] 50-1212
- Recovery of ozone in the lower stratosphere at the South Pole during the spring of 1994. Hoffmann, D.J., et al. [1995,eng] 50-1182
- Relationship between atmospheric circulation and antarctic ozone depletion. Butchart, N., et al. [1996,eng] 50-3963
- Release of volatile halogenated organic compounds by unialgal cultures of polar macroalgae. Laturnus, F., [1995,eng] 50-1202
- Role of atmospheric waves in the laminated structure of ozone profiles at high latitude. Teitelbaum, H., et al. [1996,eng] 50-5871
- Satellite monitoring of antarctic stratosphere volcanic aerosols. Saxena, V.K., et al. [1995,eng] 50-591
- Satellite observation of arctic ozone depletion. Müller, R., et al. [1996,eng] 50-6636
- Satellites for monitoring climate change. Kelkar, R.R., [1994,eng] 50-4826
- SCAR report No.11, Feb. 1996. Scientific Committee on Antarctic Research. [1996,eng] 50-5803
- Simulated effects of dichlorine hexoxide on stratospheric ozone depletion. Parthiban, S., et al. [1995,eng] 50-2019
- Simulation of arctic stratospheric response to aerosol perturbations. Zhao, X.P., et al. [1996,eng] 50-6680
- Simulations of stratospheric ozone in a climate model. Austin, J., et al. [1995,eng] 50-1772
- Sounding of aerosol formation in the arctic stratosphere. Hoffmann, D.J., et al. [1990,eng] 50-4725
- Sounding of arctic polar stratospheric clouds, 1990. Hoffmann, D.J., et al. [1990,eng] 50-4731
- Sounding of nitric acid aerosol in the arctic stratosphere. Schlager, H., et al. [1990,eng] 50-4724
- Sounding of polar stratospheric ozone annual variations. Grudev, A.N., et al. [1995,eng] 50-4748
- Source gases: concentrations, emissions, and trends. Fraser, P., et al. [1991,eng] 50-2782
- Spectroscopic study of heavy ozone isotopes in the arctic atmosphere. Meier, A., et al. [1996,eng] 50-3550
- Spectroscopy of antarctic stratospheric ozone variations, pt.2. Cheng, D.J., et al. [1996,eng] 50-4349
- Spectroscopy of stratospheric trace gases at the South Pole. De Zafra, R.L., et al. [1994,eng] 50-4240
- Statistical seasonal analysis of winter decreases in ozone at Macquarie Island. Lehmann, P., [1994,eng] 50-2521
- Steep latitudinal gradient of solar ultraviolet-B radiation in the arctic-alpine life zone. Caldwell, M.M., et al. [1980,eng] 50-1410
- Stratospheric constituent trends from ER-2 profile data. Schoeberl, M.R., et al. [1990,eng] 50-6005
- Stratospheric ozone layer above Spitsbergen in winter 1989. Neuber, R., et al. [1990,eng] 50-5975
- Stratospheric ozone research in Finland, focusing on atmospheric modelling. Rummukainen, M., et al. [1995,eng] 50-1778
- Stratospheric polar vortex and sub-vortex: fluid dynamics and midlatitude ozone loss. McIntyre, M.E., [1995,eng] 50-5229
- Stratospheric processes: observations and interpretation. Brune, W.H., et al. [1991,eng] 50-2785
- Surface ozone at high latitudes. Theodorsen, A., et al. [1996,eng] 50-4871
- Surface spectrometry of arctic seasonal atmospheric ozone variations. Pommerehne, J.P., et al. [1988,eng] 50-4636
- Total ozone concentrations during the antarctic spring anomaly of 1989. Brezgin, N.I., et al. [1992,rus] 50-135
- Total ozone during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990,eng] 50-5974
- Total ozone trends in the Southern Hemisphere: an update. Kane, R.P., [1993,eng] 50-563
- Tropospheric chemistry of greenhouse gases in Finnish conditions. Laurila, T., et al. [1994,eng] 50-3191
- Ultraviolet and visible solar irradiance at the Weddell-Scotia Confluence, spring 1993. Sikorski, R.J., et al. [1994,eng] 50-4244
- Ultraviolet inhibition of carbon fixation in phytoplankton. Boucher, N., et al. [1994,eng] 50-4245
- Ultraviolet radiation changes. McKenzie, R.L., et al. [1991,eng] 50-2788
- Ultraviolet radiation effects on phytoplankton during ozone depletion. Villafañe, V.E., et al. [1994,eng] 50-4243
- Ultraviolet radiation in the southern seas in early spring 1993. Wendler, G., et al. [1994,eng] 50-4241
- Ultraviolet sunlight reaching the Earth's surface. Frederick, J.E., [1993,eng] 50-1326
- Ultraviolet-B radiation and photosystem II activity in antarctic ice algae. Schofield, O., et al. [1995,eng] 50-2573
- Upper Atmosphere Research Satellite (UARS) Microwave Limb Sounder (MLS) experiment. Waters, J., et al. [1992,eng] 50-3561
- Uptake of HBr on ice at polar atmospheric conditions. Chu, L.T., et al. [1995,eng] 50-3090
- UV radiation effects on aquatic organisms. Holm-Hansen, O., et al. [1993,eng] 50-1325
- Variability of the arctic stratospheric ozone. Heese, B., [1996,ger] 50-3802
- Variation of atmospheric ozone and NO₂ at Zhongshan Station, antarctic spring. Wang, Y.J., [1995,chi] 50-1230
- Year-round column ozone observations at 65°S: validation and polar winter data. Jones, A.E., et al. [1995,eng] 50-3524
- Yearly cycle of lower tropospheric ozone at the Arctic Circle. Rummukainen, M., et al. [1996,eng] 50-5614
- Zonal asymmetries in simulation of arctic stratospheric ozone. Isaksen, I.S.A., et al. [1990,eng] 50-6026
- Pacific Ocean**
- Role of the Bering Strait in controlling North Atlantic ocean circulation and climate. Shaffer, G., et al. [1994,eng] 50-3769
- Transfer coefficients of radon-222 across the sea surface. Kholuiskil, S.N., et al. [1995,rus] 50-4120
- Pack Ice**
- Automatic ice motion retrieval from ERS-1 SAR images using the optical flow method. Sun, Y., [1996,eng] 50-5824
- Carbon acquisition and growth of antarctic sea ice diatoms in closed bottle incubations. Gleitz, M., et al. [1996,eng] 50-5455
- Circulation and transport of water along the western Weddell Sea margin. Muench, R.D., et al. [1995,eng] 50-568
- Comparison of monthly sea ice simulation models. Wu, X.R., et al. [1996,eng] 50-5451
- Coupling and propagation of elastic waves in arctic pack ice. Jarvis, S.M., et al. [1994,eng] 50-5178
- Distributed mass/discrete floe model for predicting pack ice motion. Matsuzawa, T., et al. [1996,jpn] 50-5886
- Drift tests of model floes in a circulation water channel. Rheem, C.K., et al. [1996,eng] 50-4432
- Effects of pack ice on Weddell Sea plankton distribution. Kaufmann, R.S., et al. [1995,eng] 50-4160
- Exploration of the Arctic Ocean by means of floating scientific stations. Männik, R., [1989,eng] 50-2930
- Freezing driven upwelling in antarctic sea ice biological systems. Ackley, S.F., et al. [1996,eng] 50-6032
- Glimpse beneath the ice. Plueddemann, A.J., [1996,eng] 50-6674
- Heat flux from leads in pack ice from a Landsat TM image. Lindsay, R.W., [1994,eng] 50-5179
- High resolution observations of Weddell Sea surface currents using ERS-1 SAR sea-ice motion vectors. Thomas, J.P., et al. [1995,eng] 50-1819
- Ice-rafted tephra sedimentation of the North Atlantic. Lacasse, C., et al. [1996,eng] 50-4140
- Method to calculate pack ice driving forces. Evgin, E., et al. [1995,eng] 50-1283
- New, low-cost, ice- and wave-resistant port facility at Nome, Alaska. Swigart, W.S., et al. [1991,eng] 50-1732
- Observation of momentum and heat transfers between ocean and atmosphere in the Chukchi Sea. Sasaki, Y., et al. [1996,eng] 50-4479
- Occurrence of net phytoplankton between Elephant I. and the southern passages. Koczyńska, E.E., et al. [1989,pol] 50-2927
- Of ocean waves and sea ice. Squire, V.A., et al. [1995,eng] 50-5241
- Pack ice stresses and their relationship to regional deformation. Richter-Menge, J.A., et al. [1995,eng] 50-6287
- Panel report on 100 km scale (pack ice). Coon, M.D., et al. [1995,eng] 50-6295
- Picking out the pack ice from the air. [1989,eng] 50-5645
- Polar sea ice off West Greenland—a review. Fabricius, J.S., et al. [1995,eng] 50-2972
- Primary productivity and microbial variations in the Chukchi Sea. Coia, G.F., et al. [1996,eng] 50-5457
- Sea ice mechanics related to thermally-induced stresses and fracturing in pack ice. Lewis, J.K., et al. [1995,eng] 50-6290
- Sea ice rheology and sea ice modelling. Tremblay, B., [1993,eng] 50-5185
- Sea-ice velocity fields estimation on Ross Sea with NOAA-AVHRR. Motezuma Flores, M., et al. [1995,eng] 50-983
- Seasonal development of Beaufort Sea pack ice. Melling, H., et al. [1996,eng] 50-5857
- Sediment transport by Laptev Sea ice. Reimnitz, E., et al. [1995,eng] 50-2072
- Vertical mixing processes in the western Weddell Sea. Robertson, R., et al. [1995,eng] 50-569
- Paints**
- Improved freeze-thaw stability in paints. Farwaha, R., et al. [1995,eng] 50-2055
- See [also]: Protective coatings
- Pakistan**
- Satellite systems for hazard monitoring. Barrett, E.C., et al. [1992,eng] 50-619
- Pakistan—Karakoram Mountains**
- Quaternary glaciation in the Karakoram and Himalayas. Derbyshire, E., [1996,eng] 50-5097
- Paleobotany**
- Alaskan Palaeocene climates as inferred from the CLAMP database. Wolfe, J.A., [1994,eng] 50-908
- Arcto-alpine and boreal elements in the high altitude flora of north west Himalaya. Gupta, R.K., [1994,eng] 50-5417
- Arcto-Tertiary '93: perspectives and prospects. Collinson, M.E., [1994,eng] 50-917
- Biodiversity and climate in the coastal temperate rainforests of North America. Alaback, P.B., [1996,eng] 50-4063
- Biostratigraphic evidence of an Icelandic paleoclimatic oscillation. Rundgren, M., [1995,eng] 50-2017
- British Columbia vegetation and climate history with focus on 6 ka BP. Hebda, R.J., [1995,eng] 50-1454
- Canadian paleoenvironments derived from pollen macrofossils. Gajewski, K., et al. [1995,eng] 50-2131
- Cenozoic plants and climates of the Arctic. Boulter, M.C., ed. et al. [1994,eng] 50-892
- Conifer relicts or paleoclimatic indicators. Mai, D.H., [1994,eng] 50-906
- Connecting links between the Arctic Palaeocene and European Tertiary floras. Kváček, Z., [1994,eng] 50-910
- Demarcation and paleotemperatures of the last glaciation in northern China. Sun, J.Z., et al. [1995,chi] 50-1358
- Dendroecology of red spruce decline. Cook, E.R., et al. [1992,eng] 50-4054
- Discovery of *Quercus semicarpifolia* fossils at Mount Xixia. Bangma, Xu, R., [1982,chi] 50-6608
- Early Holocene environment on Bjørnøya from lake sediments. Wohlfarth, B., et al. [1995,eng] 50-4721
- Early Holocene land floras and faunas from Edgessa, eastern Svalbard. Bennike, O., et al. [1995,eng] 50-4717
- Early Tertiary vegetation and paleoclimatology of arctic Canada. Basinger, J.F., et al. [1994,eng] 50-905
- Early Weichselian interstadial land biotas at Thule, northwest Greenland. Bennike, O., et al. [1992,eng] 50-2553
- East Beringia during Late Wisconsin time: a review of the biotic evidence. Mathews, J.V., Jr., [1982,eng] 50-3374
- Estimate of the early Tertiary paleoclimate of the southern Arctic. Tiffany, B.H., [1994,eng] 50-911
- Floristic changes in the areas surrounding the Paratethys during Neogene time. Kovar-Eder, J., et al. [1994,eng] 50-915
- Forest changes in the Great Lakes region at 5-7 ka BP. Anderson, T.W., [1995,eng] 50-1456
- Fossil charophytes from the Qaidam Basin. Tang, L.H., et al. [1991,chi] 50-2032
- Fossil flora of the Paleocene climatic optimum in north eastern Asia. Budantsev, L.I.U., [1994,eng] 50-912
- Fossil plants as palaeoenvironmental indicators. Chaloner, W.G., [1994,eng] 50-894
- Holocene vegetation history of the eastern Qinghai-Xizang Plateau. Frenzel, B., [1994,ger] 50-4778
- Invasion of arcto-tertiary elements in the Palaeocene of central Europe. Walther, H., [1994,eng] 50-909
- Late Cretaceous arctic plant fossils and high latitude climate. Herman, A.B., [1994,eng] 50-903

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- Late Pleistocene deposits at Block Fen, Cambridgeshire, England. West, R.G., et al. [1995,eng] 50-6214
- Late Pleistocene-Holocene diatom record and paleoenvironment of Bangong Lake, Western Tibet. Fan, H., et al. [1994,eng] 50-1532
- Late Quaternary environmental history of Bátorliget, N.E. Hungary. Willis, K.J., et al. [1995,eng] 50-2165
- Late Quaternary glacial and climatic history of the Liddar Valley, Kashmir Himalaya. Kaul, M.N., [1994,eng] 50-5549
- Late-glacial palynology of the Myrtaceae of southern Chile. Zhou, M.M., et al. [1996,eng] 50-4744
- Meteor impact and the Cretaceous-Tertiary transition in arctic plant fossils. Spicer, R.A., et al. [1994,eng] 50-904
- Migrations and evolution: computerised maps from computerised data. Brown, S.M., [1994,eng] 50-914
- Near-shore Baltic ice lake deposits in Fakse Bugt, southeast Denmark. Bennike, O., et al. [1995,eng] 50-1798
- New paleontological evidence for continental drift in the Qinghai-Xizang Plateau. Wen, S.X., [1992,chi] 50-1506
- Nitsoniocladius* in the Cretaceous Arctic: new species and biological insights. Spicer, R.A., et al. [1996,eng] 50-6541
- Organic compounds in a permafrost sediment core from Siberia. Matsumoto, G.I., et al. [1995,eng] 50-3844
- Origin of the arctic driftwood—a dendrochronological study. Eggertsson, Ö., [1994,eng] 50-3851
- Origin of the driftwood on the coasts of Iceland; a dendrochronological study. Eggertsson, Ö., [1993,eng] 50-4771
- Palaeoecophysiological studies on cretaceous and tertiary fossil floras. Beerling, D.J., [1994,eng] 50-895
- Palaeoecology of a cushion bog, southern Tierra del Fuego. Heusser, C.J., [1995,eng] 50-2726
- Palaeogeographic flora of Spitsbergen: implications for arcticotertiary climate/stratigraphy. Manum, S.B., [1994,eng] 50-907
- Paleobotany and cladistics and cladistics in paleobotany: enlightenment and uncertainty. Nixon, K.C., [1996,eng] 50-4001
- Paleoclimatological import of Himalayan tree palynological samples. Nakagawa, T., et al. [1996,eng] 50-4745
- Paleoclimatology of Kamchatka from Cenozoic plant and foraminifera fossils. Fotianova, L.I., et al. [1994,eng] 50-900
- Paleoecological study of Pleistocene mountain vegetation patterns. Gregory, K.M., et al. [1996,eng] 50-5081
- Paleoecology of Finnish lacustrine deposits. Sarmaja-Korjonen, K., [1995,eng] 50-4738
- Paleovegetation and paleoclimatic changes in the Yukon at 6 ka BP. Cwynar, L.C., et al. [1995,eng] 50-1451
- Palynology of the Quaternary glaciolacustrine deposits of Mount Xixia Bangma. Chen, S.M., et al. [1982,chi] 50-6604
- Past changes in climate and tree growth in the western Americas. D'Arrigo, R.D., et al. [1996,eng] 50-4061
- Patterns of early lake ontogeny in Glacier Bay as inferred from diatom assemblages. Fritz, S.C., et al. [1995,eng] 50-3750
- Phylogeographic relationships in the cool temperate rainforests of Chile. Arroyo, M.T.K., et al. [1996,eng] 50-4064
- Plio-Pleistocene stratigraphy and paleobotany of the Kap København Formation. Bennike, O., [1990,eng] 50-5170
- Pollen assemblages from a borehole in Dabsan Lake. Du, N.Q., et al. [1986,chi] 50-1986
- Postglacial sea-level history of Edgeøya and Barentsøya, eastern Svalbard. Bondevik, S., et al. [1995,eng] 50-4715
- Proceedings 1994, eng] 50-1531
- Protection of relict associations on arctic islands and the Chukotsky tundra. Il'inskiy, B.A., [1991,rus] 50-1307
- Qualitative successional models in Glacier Bay. Sharmar, L.C., et al. [1995,eng] 50-3753
- Quaternary bryophyte palaeo-ecology. Birks, H.J.B., [1982,eng] 50-5414
- Research on Tertiary palynology from the Qaidam Basin. Zhu, Z.H., et al. [1985,chi] 50-2033
- Response functions of tree-ring chronologies in western Tianshan Mountains. Yuan, Y.J., et al. [1995,chi] 50-5626
- Review of Late Cretaceous floras and climates of arctic Russia. Herman, A.B., [1994,eng] 50-902
- Review of working groups on paleoclimate reconstruction from extinct plant data. Hubbard, R.N.L.B., ed. [1994,eng] 50-918
- Some early Paleogene species from western Kamchatka. Lavrenko, O.D., et al. [1994,eng] 50-913
- Some late Pliocene and early Pleistocene pollen profiles from Poland. Stuchlik, L., [1994,eng] 50-916
- Taxus* in plant communities of the Mazovian Interglacial Age in Central Europe. Krupinski, K.M., [1995,eng] 50-2613
- Taymyr Peninsula vegetation response to climatic changes. Koshkarova, V.L., [1995,eng] 50-4701
- Tertiary climate changes in the Russian Far East. Krassilov, V.A., [1994,eng] 50-901
- Towards a review of Tertiary palaeobotany in the boreal realm. Boulter, M.C., [1994,eng] 50-893
- Tree-ring chronologies at the upper tree line in eastern Tibet. Bräuning, A., [1994,ger] 50-4780
- Vegetation and climate of Holocene megathermal in Zoige, northwestern Sichuan, China. Liu, G.X., et al. [1995,chi] 50-5635
- Vegetation and climate of maritime Canada 6000 years BP: a synthesis. Jetté, H., et al. [1995,eng] 50-1458
- Vegetation and climatic changes in the Qinghai-Xizang Plateau. Liu, G.X., et al. [1995,chi] 50-5620
- Vegetation cover of Quebec-Labrador 6000 years BP: an essay. Richard, P.J.H., [1995,fre] 50-1457
- Vegetation of the continental Northwest Territories at 6 ka BP. MacDonald, G.M., [1995,eng] 50-1452
- Vegetation succession in ice age dating. Frenzel, B., [1990,ger] 50-1785
- Paleoclimatology**
- 10,000-years dynamics of limnic ecosystems and climatic change. Salonen, V.-P., et al. [1994,eng] 50-3182
- 100 years of glacial theory and Quaternary topography of today. Gellert, J.F., [1990,ger] 50-1781
- 110,000-yr record of explosive volcanism from the GISP2 (Greenland) ice core. Zielinski, G.A., et al. [1996,eng] 50-4575
- 135,000-year Vostok SPECMAP common temporal framework. Sowers, T., et al. [1993,eng] 50-2867
- 6 ka BP reconstruction for Newfoundland from pollen records. Macpherson, I.B., [1995,eng] 50-1459
- Aeolian facies belts in the Taklimakan Desert. Li, B.S., et al. [1995,eng] 50-4127
- Age of pre-late-Wisconsin glacial-estuarine sedimentation, Bristol Bay, Alaska. Kaufman, D.S., et al. [1996,eng] 50-4586
- Alaskan Paleogene climates as inferred from the CLAMP database. Wolfe, J.A., [1994,eng] 50-908
- Alpine "Ice-man" and Holocene climatic change. Baroni, C., et al. [1996,eng] 50-6708
- Alpine glacial history reconstruction in Wyoming and Argentina. Gosse, J.C., [1994,eng] 50-672
- Analysis of periodic variations in paleoclimatic indicators. Bolton, E.W., et al. [1995,eng] 50-1216
- Analysis of the air temperature in the Holocene using various methods. Baranov, N.A., et al. [1996,rus] 50-6350
- Application of AMS ¹⁴C dating to ice core research. Wilson, A.T., [1995,eng] 50-5246
- Applications of freshwater diatoms to geographical research. Moser, K.A., et al. [1996,eng] 50-5013
- Approaches to mathematical modeling of the steppe-tundra paleoclimate. Gal-Chen, T., [1982,eng] 50-3379
- Approaches to reconstructing the climate of the steppe-tundra biome. Barry, R.G., [1982,eng] 50-3378
- Arctic and environmental change. Wadhams, P., ed. et al. [1995,eng] 50-5226
- Arctic shelf in the last cryogenic epoch of the Late Pleistocene. Danilov, I.D., [1996,rus] 50-6353
- Arctic tundra biodiversity: a temporal perspective from Late Quaternary pollen records. Brubaker, L.B., et al. [1995,eng] 50-3894
- Arcto-alpine and boreal elements in the high altitude flora of north west Himalaya. Gupta, R.K., [1994,eng] 50-5417
- Arcto-Tertiary 93: perspectives and prospects. Collinson, M.E., [1994,eng] 50-917
- Atlantic Ocean sedimentary evidence for Pleistocene ice rafting. Robinson, S.G., et al. [1995,eng] 50-1110
- Atmospheric CO₂ and isotopic carbon-13 dioxide in ice-core air bubble. Wahlen, M., [1994,eng] 50-1894
- Basic characteristics and paleoclimatic evolution of Qarhan Salt Lake. Chen, K.Z., et al. [1986,chi] 50-1984
- Basic features of glacial landforms in the Minshan. Tang, B.X., et al. [1994,eng] 50-4783
- Biostratigraphic evidence of an Icelandic paleoclimatic oscillation. Rundgren, M., [1995,eng] 50-2017
- Boundary of permafrost region in east China during last glacial epoch. Xu, S.Y., et al. [1989,chi] 50-1357
- British Columbia vegetation and climate history with focus on 6 ka BP. Hebda, R.J., [1995,eng] 50-1454
- Buried loess in the Bohai Sea bottom and exposed along the coast. Liu, J.P., et al. [1995,chi] 50-4125
- Calibration of radiocarbon ages and the interpretation of paleoenvironmental records. Bartlein, P.J., et al. [1995,eng] 50-2018
- Canadian contribution to the Paleoclimate Model Intercomparison Project (PMIP). Jetté, H., [1995,eng] 50-1449
- Canadian permafrost distribution during the Holocene. Zolai, S.C., [1995,eng] 50-1453
- Carbonate minerals in glacial sediments: geochemical clues to paleoenvironment. Fairchild, I.J., et al. [1990,eng] 50-925
- Cenozoic deposition on the Svalbard continental shelf. Solheim, A., et al. [1996,eng] 50-5312
- Cenozoic Northern Hemisphere glaciations. Thiede, J., et al. [1995,eng] 50-5240
- Cenozoic plants and climates of the Arctic. Boulter, M.C., ed. et al. [1994,eng] 50-892
- Central Appalachian periglacial geomorphology: a field excursion guidebook. Clark, G.M., ed. [1992,eng] 50-3712
- Changes in climate and ice distribution in the Northern Hemisphere since the maximum of the last glaciation. Chizhov, O.P., [1972,rus] 50-541
- Changes in North Atlantic deep-water formation associated with the Heinrich events. Maslin, M.A., [1995,eng] 50-638
- Changes in permafrost conditions. Vaikmäe, R., et al. [1995,eng] 50-506
- Changes in the Late Cenozoic environment of the Gonghe Basin in Qinghai. Xu, S.Y., [1986,chi] 50-1983
- Characteristics of the post-glacial advance and retreat in Mount Xixia Bangma region. Zheng, B.X., [1982,chi] 50-6606
- Chemistry of salt minerals and their depositional environment in the Qaidam Basin. Dong, J.H., [1986,chi] 50-1988
- Chinese loess accumulation compared to Greenland ice core climatology. An, Z.S., et al. [1995,eng] 50-1065
- Chronology of Upper Pleistocene stratified slope-waste deposits in central Italy. Coltrini, M., et al. [1996,eng] 50-6700
- Climate dynamics and global change. Lindzen, R.S., [1994,eng] 50-5242
- Climate history from tree rings in the subarctic area of Fennoscandia. Eronen, M., et al. [1994,eng] 50-3180
- Climate of the penultimate ice age according to data from an antarctic ice core. Kotliakov, V.M., et al. [1993,rus] 50-4103
- Climate of western Siberia: past and future. Bukreeva, G.F., et al. [1995,eng] 50-6583
- Climatic changes in Europe during the last glacial/interglacial transition. Walker, M.J.C., [1995,eng] 50-502
- Climatic controls on rates of solifluction: variations within Europe. Matthews, J.A., et al. [1993,eng] 50-849
- Climatic implications of Norwegian Neoglaciation glacier maximum. Matthews, J.A., [1991,eng] 50-3306
- Climatic implications of ostracode deposits in Greenland Quaternary sediments. Brouwers, E.M., et al. [1991,eng] 50-2564
- Climatic significance of bristlecone pine frost-ring records. Brunstein, F.C., [1996,eng] 50-4338
- Climatic variation of Xinjiang in recent 3000 years. Li, J.F., [1985,chi] 50-1996
- Collected papers on the Quaternary in arid region Xinjiang. Xinjiang University, Xinjiang Geology and Mineral Resources Bureau, Xinjiang Branch Academy of Sciences, [1985,chi] 50-1995
- Comment on paper by Blanchon et al. Clark, P.U., et al. [1995,eng] 50-1101
- Common features of the Upper Quaternary and historical glaciation in the Caucasus and Tien Shan. Gerasimov, V.A., [1972,rus] 50-543
- Comparing simulated glacial climate and paleodata: a reexamination. Broccoli, A.J., et al. [1996,eng] 50-4398
- Comparison of tundra-steppe development in Beringia. Gierman, R.E., et al. [1982,eng] 50-3371
- Computer network database for paleoclimatological studies. Roof, S.R., et al. [1996,eng] 50-5712
- Computer simulation of arctic shelf freezing during the Pleistocene. Sigunov, I.U.A., et al. [1995,eng] 50-6582
- Conifer relicts or paleoclimatic indicators. Mai, D.H., [1994,eng] 50-906
- Connecting links between the Arctic Paleogene and European Tertiary floras. Kvaček, Z., [1994,eng] 50-910
- Contrasting atmospheric and paleoclimate dynamics. Ditlevsen, P.D., et al. [1996,eng] 50-3352
- Contributions to research on Tibet. Pörtl, K.H., ed. et al. [1994,ger] 50-4774
- Contributions to the glacial history of Liefdefjord/NW Spitsbergen. Furrer, G., [1994,ger] 50-1579
- Cores. Kneller, M., [1996,eng] 50-4981
- Correlation of Cenozoic dinoflagellate and pollen records. Hubbard, R.N.L.B., et al. [1994,eng] 50-897
- Correlation of glacial episodes in Poland and Scandinavia. Lindner, L., et al. [1995,eng] 50-2611
- Coupling PIXE and SEM/EDAX for characterizing atmospheric aerosols in ice-cores. Laj, P., et al. [1996,eng] 50-6324
- Cryolithological structure of Quaternary deposits on Wrangel Island. Kotov, A.N., et al. [1996,rus] 50-6379
- Current status and prospects of ice age research. Liedtke, H., [1990,ger] 50-1783
- Danish lacustrine sediment evidence of paleoclimatological variability. Hammarlund, D., et al. [1996,eng] 50-5826
- Dating of Holocene solifluction in the Austrian Alps. Veit, H., [1993,eng] 50-826
- Deep ice stirs debate on climate stability. Monastersky, R., [1993,eng] 50-4800
- Deglaciation chronology of West Greenland moraines. Van Tatenhove, F.G.M., et al. [1996,eng] 50-5187
- Demarcation and paleotemperatures of the last glaciation in northern China. Sun, J.Z., et al. [1989,chi] 50-1358
- Dendrochronology of climatic change in mountain environment. Tessier, L., et al. [1995,eng] 50-1019
- Depositional sequence of the Quaternary period in Xinjiang. Peng, X.L., [1985,chi] 50-2005
- Desert and lake deposits in the Taklimakan Desert. Endo, K., et al. [1991,jpn] 50-1423
- Diatoms in South Pole ice: implications for eolian contamination of Sirius Group deposits. Kellogg, D.E., et al. [1996,eng] 50-3387
- Dinoflagellate cysts and climate change through the Neogene. Harland, R., [1994,eng] 50-899
- Discussion on the division and correlation of Holocene series in Xinjiang. Bai, M.X., [1985,chi] 50-2007
- Distribution of deuterium excess in surface snow of the antarctic ice sheet. Ren, J.W., et al. [1995,eng] 50-978
- Distribution of ice age sediments in northern Germany. Ehlers, J., [1990,ger] 50-1788
- Distribution, growth, and variation of glaciers in the Kunlun Mountains. Zhang, Z.S., et al. [1986,chi] 50-1989
- Division and duration of ice age dating from global comparisons. Brunnacker, K., [1990,ger] 50-1784
- Dust in glaciers around Taklimakan Desert. Han, J.K., et al. [1995,eng] 50-615
- Dynamics of rock glaciers: data from Tröllaskagi, north Iceland. Whalley, W.B., et al. [1995,eng] 50-4833
- Dynamics of the last glaciation in eastern Svalbard. Salvigsen, O., et al. [1995,eng] 50-4714
- Early Holocene environment on Bjørnøya from lake sediments. Wohlfarth, B., et al. [1995,eng] 50-4721
- Early Holocene land floras and faunas from Edgeøya, eastern Svalbard. Bennike, O., et al. [1995,eng] 50-4717
- Early Holocene moraine bank sedimentology of East Greenland. Huddart, D., et al. [1990,eng] 50-929
- Early Pleistocene glaciation in the Qinling Mountains of China. Rost, K.T., [1992,ger] 50-1682

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- Early Pleistocene strata and the Quaternary lower boundary in northern Xinjiang. Lu, S.A., [1985,chi] 50-2006
- Early Tertiary vegetation and paleoclimatology of arctic Canada. Basinger, J.F., et al., [1994,eng] 50-905
- Early Weichselian interstadial land biotas at Thule, northwest Greenland. Bennike, O., et al., [1992,eng] 50-2553
- Earth rotation, ocean circulation and paleoclimate. Möner, N.A., [1995,eng] 50-6063
- Eastern Canadian Arctic at ca. 6 ka BP: a time of transition. Williams, K.M., et al., [1995,eng] 50-1450
- Eemian interglacial and its termination. Dansgaard, W., et al., [1981,eng] 50-3622
- Effect of orbital variations on past eolian deposits. Kutzbach, J.E., [1989,eng] 50-5410
- Effects of climatic change on permafrost in the arid and semi-arid regions of China. Xie, Y.Y., [1995,eng] 50-3391
- ELA variations recorded by Ordes-Cevedale Glaciers, Italy. Pelfini, M., [1994,eng] 50-3766
- Encyclopedia of climate and weather. [1996,eng] 50-4973
- Encyclopedia of climate and weather. [1996,eng] 50-4973
- Ensemble of periglacial landforms in three dimensions. Karte, J., [1990,ger] 50-1792
- Eocene continental climates and latitudinal temperature gradients. Greenwood, D.R., et al., [1995,eng] 50-1808
- Eolian dust in deep sea sediments from arctic pack ice. Pfirman, S., et al., [1989,eng] 50-5408
- Erosion of the Laurentide region of North America by glacial and glaciofluvial processes. Bell, M., et al., [1990,eng] 50-1789
- Erosion on Titan: past and present. Lorenz, R.D., et al., [1996,eng] 50-5832
- Estimate of the early Tertiary paleoclimate of the southern Arctic. Tiffney, B.H., [1994,eng] 50-911
- Estimates of Greenland atmospheric impurity variations during deglaciation. Alley, R.B., et al., [1995,eng] 50-1872
- European paleoclimatic changes based on coleopteran analysis. Coope, G.R., et al., [1995,eng] 50-6565
- European paleoclimatic variations inferred from Greenland ice core isotope analysis. Hafidsson, H., et al., [1995,eng] 50-2528
- Evidence of Holocene sea level rise from Nova Scotian bottom sediments. Scott, D.B., et al., [1995,eng] 50-4528
- Evidence of paleoclimatic snow melt in lacustrine mountain deposits. Norris, R.D., et al., [1996,eng] 50-5082
- Evolution of lowland landscapes in northeastern Asia during Late Quaternary time. Tomirdiario, S.V., [1982,eng] 50-3370
- First appearance of Himalayas and its relation to global climatic events. Xu, Q.Q., [1992,chi] 50-1504
- Floristic changes in the areas surrounding the Paratethys during Neogene time. Kovar-Eder, J., et al., [1994,eng] 50-915
- Fluctuations of local glaciers at the termination of the Pleistocene: 18-8 ka BP. Clapperton, C.M., [1995,eng] 50-500
- Fluvial dynamics in the periglacial belt of the central Austrian Alps. Höfner, T., [1995,eng] 50-2751
- Foraminiferal evidence of Younger Dryas age cooling on the British Columbia shelf. Patterson, R.T., et al., [1995,eng] 50-5039
- Fossil flora of the Paleogene climatic optimum in north eastern Asia. Budantsev, L.I.U., [1994,eng] 50-912
- Fossil plants as paleoenvironmental indicators. Chaloner, W.G., [1994,eng] 50-894
- Four Scandinavian glaciations in the Vistula Gap of the South Polish Uplands. Pozaryski, W., et al., [1995,eng] 50-2612
- General circulation (GCM) modelling of paleoclimates: a critique. Street-Perrott, F.A., [1991,eng] 50-3303
- Geochemical criterion for recognition of Pleistocene ice rafting events. Thomson, J., et al., [1995,eng] 50-1250
- Geochemical evolution and paleoclimatology of a salt lake in the Qaidam Basin. Han, F.Q., et al., [1995,chi] 50-4126
- Geocryological reconstructions for the central Russian Plain. Ershov, E.D., et al., [1996,rus] 50-6354
- Geometry and genesis of the glacialic sediments in the southern Barents Sea. Vorren, T.O., et al., [1990,eng] 50-928
- Geomorphological altitude zones in the Qinghai-Xizang Plateau. Hövermann, J., et al., [1994,ger] 50-4775
- Geomorphological studies on the arid regions of northwest China. Yang, X.P., [1991,ger] 50-2770
- Geomorphology and dynamics of the Laurentide Ice Sheet in Wisconsin. Ham, N.R., [1994,eng] 50-693
- Glacial and fluvial geomorphology of western Himalaya (Liddar Valley). Kaul, M.N., [1990,eng] 50-5550
- Glacial crushing, weathering and diagenetic histories of quartz grains. Mahaney, W.C., [1995,eng] 50-3595
- Glacial drainage towards the Mediterranean during the Middle and Late Pleistocene. Arkhipov, S.A., et al., [1995,eng] 50-1799
- Glacial drift and the glacial epoch in the Quaternary period of Xinjiang. Peng, X.L., [1985,chi] 50-2000
- Glacial environments. Menzies, J., [1995,eng] 50-3581
- Glacial evidence of climatic cooling during the Younger Dryas. Osborn, G.D., et al., [1995,eng] 50-4625
- Glacial geology: how ice shapes the land. Erickson, J., [1996,eng] 50-3555
- Glacial geomorphic features in the northern Barents Sea. Solheim, A., et al., [1990,eng] 50-927
- Glacial isostatic uplift of Tibet as a consequence of a former ice sheet. Kuhle, M., [1995,eng] 50-6064
- Glacial overdeepened valleys in the Austrian Alps. Van Husen, D., [1990,ger] 50-1790
- Glacially-influenced sedimentation on the Hebridean slope. Stoker, M.S., [1990,eng] 50-933
- Glacially-influenced Yakataga Formation on Middleton I. Eyles, C.H., et al., [1990,eng] 50-934
- Glacier geophysics at Taylor Dome: year 4. Waddington, E.D., et al., [1994,eng] 50-1899
- Glaciers and climate of the mountains of the former USSR during the Neoglacial. Serebrianniy, L.R., et al., [1996,eng] 50-6552
- Glacimarine deposits in southwestern Sweden. Stevens, R.L., [1990,eng] 50-930
- Glacimarine sediments from the Celtic Sea. Scourse, J.D., et al., [1990,eng] 50-932
- Global change research at Glacier Bay National Park. Powell, R.D., [1995,eng] 50-3731
- Global glacial chronologies and causes of glaciation. Calkin, P.E., et al., [1995,eng] 50-3582
- Global Younger Dryas? Peteet, D., [1995,eng] 50-504
- Great Qinghai-Xizang ice sheet. Han, T.L., [1991,chi] 50-2176
- Greenland and United Kingdom paleotemperatures comparisons from Greenland snow accumulation rates. Lowe, J.J., et al., [1995,eng] 50-1082
- Greenland ice core records and rapid climate change. Dowdeswell, J.A., et al., [1995,eng] 50-5239
- Greenland ice core sediments correlated with oceanic sediments. Grönvold, K., et al., [1995,eng] 50-1251
- Greenland ice sheet climate record of the past 16,500 years. Stuiver, M., et al., [1995,eng] 50-2015
- Greenland ice sheet in response to various climate scenarios. Calov, R., et al., [1996,eng] 50-6435
- Greenland Ice-Core Project (GRIP): three years of activity. Maggi, V., et al., [1994,ita] 50-2821
- Greenland paleotemperatures derived from ice core isotope profiles. Johnsen, S.J., et al., [1995,eng] 50-2027
- Greenland's ice holds key to climate puzzle. Kiernan, V., [1996,eng] 50-6546
- Growth and decay of the Laurentide Ice Sheet and comparisons with Fennoscandia. Ives, J.D., et al., [1990,eng] 50-1787
- Gulf of Alaska paleoclimatological influence on marine ecology. Lagoe, M.B., et al., [1996,eng] 50-6625
- Gulf of Mexico meltwater influx during Laurentide deglaciation. Marchitto, T.M., et al., [1995,eng] 50-340
- Hemispheric climate relations revealed by bottom sediment/ice core correlations. Charles, C.D., et al., [1996,eng] 50-6632
- High-resolution ammonium ice core record covering a complete glacial-interglacial cycle. Fuhrer, K., et al., [1996,eng] 50-3448
- History of the steppe-tundra concept. Hibbert, D., [1982,eng] 50-3375
- Holocene environmental changes in a Tibetan lake basin. pt.1. Fontes, J.C., et al., [1996,eng] 50-5090
- Holocene environmental changes in a Tibetan lake basin. pt.2. Van Campo, E., et al., [1996,eng] 50-5091
- Holocene environmental changes in a Tibetan lake basin. pt.3. Fan, H., et al., [1996,eng] 50-5092
- Holocene environmental changes in a Tibetan lake basin. pt.4. Gasse, F., et al., [1996,eng] 50-5093
- Holocene mass movement on Scottish mountains. Ballantyne, C.K., [1993,eng] 50-831
- Holocene solifluction in the Swiss Alps: dating and climatic implications. Gamper, M., [1993,eng] 50-824
- Holocene subalpine lake fluctuations in France. Magny, M., [1992,eng] 50-2560
- Holocene vegetation history of the eastern Qinghai-Xizang Plateau. Frenzel, B., [1994,ger] 50-4778
- Hudson Bay-Hudson Strait jökulhlaups and Heinrich events: a hypothesis. Johnson, R.G., et al., [1995,eng] 50-354
- Ice age research. Liedtke, H., ed., [1990,ger] 50-1780
- Ice age sea level. Gornitz, V., [1996,eng] 50-4990
- Ice age significance of Rhine terraces. Boenigk, W., [1990,ger] 50-1786
- Ice age terrestrial carbon changes revisited. Crowley, T.J., [1995,eng] 50-1148
- Ice ages. Kneller, M., [1996,eng] 50-4989
- Ice core records for analyzing desertification. Nakawo, M., et al., [1995,eng] 50-614
- Ice sheet modeling and reconstruction. Hughes, T.J., [1995,eng] 50-3583
- Ice-age history of Alaskan national parks. Elias, S.A., [1995,eng] 50-857
- Ice-age tropics revisited. Anderson, D.M., et al., [1994,eng] 50-3771
- Ice-sheet growth and high-latitudes sea-surface temperature. Berger, A., et al., [1996,eng] 50-5862
- Ice-volume forcing of East Asian winter monsoon variations in the past 800,000 years. Ding, Z.L., et al., [1995,eng] 50-965
- Iceberg furrows as paleowind indicators in Lake Ojibway. Veille, J.E., et al., [1996,eng] 50-2498
- Iceland paleoclimatology dynamics from volcanic ash in lacustrine deposits. Björck, S., et al., [1992,eng] 50-2547
- Identification of paleosol types and their applicability for paleoclimatic reconstructions. Morozova, T., [1995,eng] 50-1046
- Identification of the Holocene-Pleistocene boundary in the Bering Sea by diatoms. Baldauf, J.G., [1982,eng] 50-3382
- Inquiry on ice ages in Mount Xixia Bangma region. Shi, Y.F., et al., [1982,chi] 50-6605
- Internal melt figures in Japanese pond ice and microparticles in antarctic ice cores. Higashi, A., [1996,jpn] 50-4931
- Invasion of arcto-tertiary elements in the Palaeogene of central Europe. Walther, H., [1994,eng] 50-909
- Isotope analysis of Greenland ice sheet stratigraphic disturbances. Fuchs, A., et al., [1996,eng] 50-5461
- Isotope tracking of Pleistocene ice-rafted debris. Gwiazda, R.H., et al., [1996,eng] 50-4399
- Isotopic climatic records in the Alleröd-Bölling-Younger Dryas and post-Younger Dryas events. Epstein, S., [1995,eng] 50-2804
- Japanese glaciological environmental studies in the arctic cryosphere. Watanabe, O., [1995,jpn] 50-3507
- Karakorum ice cover variations during the last glaciation. Kuhle, M., [1994,eng] 50-1533
- Last Scottish ice-sheet: facts and speculative discussion. Sissons, J.B., [1981,eng] 50-3620
- Late Cenozoic geology and environmental evolution of the Qaidam Basin in Qinghai. [1986,chi] 50-1981
- Late Cenozoic history of the Scandinavian and Barents Sea ice sheets. Mangerud, J., et al., [1996,eng] 50-5305
- Late Cretaceous arctic platanoids and high latitude climate. Herman, A.B., [1994,eng] 50-903
- Late Eocene-Oligocene dinoflagellate provincialism in the North Atlantic Ocean. Damassa, S.P., et al., [1994,eng] 50-898
- Late Holocene record of aeolian and fire activity in northern Québec, Canada. Filion, L., et al., [1991,eng] 50-3304
- Late Pleistocene environment of north China. Zheng, H.H., et al., [1991,chi] 50-1844
- Late Pleistocene equilibrium-line reconstructions in the northern Peruvian Andes. Rodbell, D.T., [1992,eng] 50-2549
- Late Pleistocene sea level fluctuations and marine terraces. Radtke, U., [1990,ger] 50-1795
- Late Pleistocene sedimentary environment near Urumqi. Han, S.T., et al., [1985,chi] 50-1998
- Late Pleistocene-Holocene diatom record and paleoenvironment of Bangong Lake, Western Tibet. Fan, H., et al., [1994,eng] 50-1532
- Late Quaternary climatic fluctuations of the Venezuelan Andes. Yuretich, R., ed., [1991,eng] 50-5643
- Late Quaternary environmental history of Bátorliget. N.E. Hungary. Willis, K.J., et al., [1995,eng] 50-2165
- Late Quaternary flux of eolian dust to the pelagic ocean. Rea, D.K., et al., [1994,eng] 50-1242
- Late Quaternary glacial and climatic history of the Liddar Valley, Kashmir Himalaya. Kaul, M.N., [1994,eng] 50-5549
- Late Quaternary glacial and environmental history of Kongsoya, Svalbard. Ingólfsson, Ö., et al., [1995,eng] 50-4713
- Late Quaternary glacial history and landscape development in Spitsbergen. Blümel, W.D., et al., [1994,ger] 50-1578
- Late Quaternary lake-level record from northern Eurasia. Harrison, S.P., et al., [1996,eng] 50-4578
- Late Quaternary paleoceanography of the mid- to outer continental shelf, East Greenland. Williams, K.M., et al., [1995,eng] 50-2810
- Late Quaternary sediments of the Qinghai-Xizang Plateau. Frenzel, B., et al., [1994,ger] 50-4779
- Late Quaternary stratigraphy and glaciology in the Thule area, Northwest Greenland. Funder, S., ed., [1990,eng] 50-5169
- Late Younger Dryas to Holocene paleoenvironments of the southern Kattegat, Scandinavia. Conradsen, K., [1995,eng] 50-2861
- Late-glacial and early Holocene vegetation of Snowdonia. Ince, J., [1996,eng] 50-4254
- Late-glacial palynology of the Myrtaceae of southern Chile. Zhou, M.M., et al., [1996,eng] 50-4744
- Lateglacial and Holocene variations of the Grey Glacier, an outlet of the South Patagonian icefield. Marden, C.J., [1993,eng] 50-3013
- Linear least squares method for time series analysis. Khalil, M.A.K., et al., [1995,eng] 50-2388
- Lithium and boron geochemistry of salt lakes in the Qaidam Basin. Zheng, X.Y., [1986,chi] 50-1992
- Little Ice Age evidence from a south-central North American ice core. U.S.A. Naftz, D.L., et al., [1996,eng] 50-4334
- Little Ice Ages. Grove, J.M., [1996,eng] 50-4993
- Loess distribution, origin, and chronology. Pécsi, M., [1990,ger] 50-1794
- Loess layer and the paleoclimate of northern piedmont of Tian Shan. Zhang, H.Y., et al., [1985,chi] 50-2003
- Loess sediment isotopic properties related to paleoclimate. Li, C.Y., et al., [1995,eng] 50-1555
- Loess-paleosol dating method. Zhu, Z.Y., [1995,eng] 50-1050
- Low probability of east Antarctica Pliocene deglaciation. Warnke, D.A., et al., [1996,eng] 50-6628
- Low-order model of the Heinrich event cycle. MacAyeal, D.R., [1993,eng] 50-2868
- Magnetic climatology: mineral magnetism and the ice ages. Heller, F., et al., [1996,ger] 50-4743
- Maintenance of the last great ice sheets: a UGAMP GCM study. Hall, N.M.J., et al., [1996,eng] 50-5531
- Marine record of deglaciation from the continental margin off Nova Scotia. Keigwin, L.D., et al., [1995,eng] 50-3001
- Marine sedimentation rates as evidence of continental glaciation. Goldschmidt, P.M., [1995,eng] 50-1828
- Mechanism of the development of the Pomeranian Phase marginal zone in the Lake Drawa district. Kyscz, P., [1990,pol] 50-5004
- Meltwater event in the North Atlantic during last glacial maximum. Seidov, D., et al., [1996,eng] 50-6217
- Meteor impact and the Cretaceous-Tertiary transition in arctic plant fossils. Spicer, R.A., et al., [1994,eng] 50-904
- Method for the study of Quaternary environmental evolution of the loess plateau in China. Zhang, Z.H., et al., [1995,eng] 50-1045

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Paleoclimatology

- Method of determining the surface boundary conditions for geocryological forecasting. Ershov, E.D., et al. [1996.rus] 50-6838
- Methodology of loess palynology. Zelikson, E.M., [1995.eng] 50-1049
- Migrations and evolution: computerised maps from computerised data. Brown, S.M., [1994.eng] 50-914
- Mineral dust record in a high altitude alpine glacier (Colle Gnifetti, Swiss Alps). Wagenbach, D., et al. [1989.eng] 50-5411
- Model of Northern Hemisphere glaciation. Dong, B.W., et al. [1995.eng] 50-1328
- Modelling of permafrost depth in France during the last 120,000 years. Lebre, P., et al. [1996.fre] 50-4570
- Modern glacial environments: processes, dynamics and sediments. Menzies, J., ed. [1995.eng] 50-3580
- Moraine bank facies in Ireland. McCabe, A.M., et al. [1995.eng] 50-921
- Moraine dating supports Younger Dryas cooling event. Gosse, J.C., et al. [1995.eng] 50-1255
- Moraine types from the last glaciation in the Qinghai-Xizang Plateau. Liu, S.J., et al. [1994.eng] 50-4782
- Neoglaciation and vegetation change in British Columbia. Clague, J.J., et al. [1996.eng] 50-4332
- New data on the geology and paleogeography of the Late Pliocene-Middle Pleistocene in Eurasia. Kostin, A.G., [1996.rus] 50-6355
- No evidence for extreme, long term warming in early Pliocene sediments of the Southern Ocean. Burckle, L.H., et al. [1996.eng] 50-6627
- Nonglacial interval in Canadian Pleistocene sediments. Hicock, S.R., et al. [1995.eng] 50-1087
- North Atlantic paleoclimatic effects on primary productivity. Versteegh, G.J.M., et al. [1996.eng] 50-6620
- North Sea paleoenvironments during the last deglaciation. Knudsen, K.L., et al. [1996.eng] 50-6534
- Norwegian Sea Pleistocene ice-core indicators of climatic change. Sejrup, H.P., et al. [1995.eng] 50-6564
- Note on rock glaciers in the Albanian Alps. Palmentola, G., et al. [1996.eng] 50-6702
- Numerical modelling of ice sheet fluctuation in the Russian Arctic. Siegert, M.J., et al. [1995.eng] 50-1800
- On ancient ice-sheet and ice age in the Tibetan Plateau. Xu, D.M., et al. [1995.chi] 50-5632
- On changes of air pressure during an ice age. Loewe, F., [1973.ger] 50-4617
- On the connexion of vegetation dynamics with climatic changes in High Asia. Mische, G., [1996.eng] 50-5089
- On the definition of stratigraphical division boundaries in the Quaternary for the Scandinavian glaciated areas. Mojski, J.E., [1995.eng] 50-2610
- On the environmental and climatic changes in the Lop Nur area. Xia, X.C., et al. [1985.chi] 50-1997
- On the paleoclimatology of the Tibetan Plateau during the last glaciation. Frenzel, B., [1994.ger] 50-4777
- On the Quaternary paleoglacial action of the northern Tianshan. Zhang, H.Y., [1985.chi] 50-2001
- On the sedimentary environment in the northern piedmont of the eastern Tian Shan Mountains. Han, S.T., [1985.chi] 50-1999
- On the sedimentary environment of the glaciofluvial terraces of the Tian Shan Mountains near Urumqi. Han, S.T., [1985.chi] 50-2002
- Organic carbon in late Quaternary Arctic Ocean sediments. Schubert, C.J., [1995.ger] 50-2454
- Organic carbon paleo- pCO_2 and marine-ice core correlations and chronology. Raymo, M.E., et al. [1996.eng] 50-3601
- Origin of sylvites and salts in the Qaidam Basin. Yang, Q., [1986.chi] 50-1987
- Paleoecophysiological studies on cretaceous and tertiary fossil floras. Beerling, D.J., [1994.eng] 50-895
- Paleoclimate of the North Atlantic seaboard during the last glacial/interglacial transition. Lowe, J.J., et al. [1995.eng] 50-501
- Paleoecological reconstruction of the Late Pleistocene, based on loess Malacofauna in Hungary. Kropf, E., et al. [1995.eng] 50-1048
- Paleoecology of a cushion bog, southern Tierra del Fuego. Heusser, C.J., [1995.eng] 50-2726
- Paleogene flora of Spitsbergen: implications for arcticotertiary climatostatigraphy. Manum, S.B., [1994.eng] 50-907
- Paleogeographic surface water variations derived from ice-raised sediments. Maslin, M.A., et al. [1995.eng] 50-565
- Paleoclimate data constraints on climate sensitivity: the paleocalibration method. Covey, C., et al. [1996.eng] 50-4150
- Paleoclimate from diatom distribution in a marine core. Zhan, Y.F., [1989.chi] 50-6780
- Paleoclimate of the Taklimakan Desert from glacier ice cores. Nakawo, M., [1991.jpn] 50-1424
- Paleoclimates. Martinson, D.G., [1996.eng] 50-4996
- Paleoclimatic atmospheric changes inferred from fossil leaf density. Beerling, D.J., et al. [1995.eng] 50-6563
- Paleoclimatic change from Lake Baikal sediments. Edgington, D.N., et al. [1996.eng] 50-6633
- Paleoclimatic changes and glacier variations in Colombia. Thoutet, J.C., et al. [1996.eng] 50-6706
- Paleoclimatic changes on the northern side of the central Himalaya. Fort, M., [1996.eng] 50-5096
- Paleoclimatic CO_2 record related to changes in oceanic thermohaline circulation. Figue, R.A., et al. [1995.eng] 50-1149
- Paleoclimatic implications of Norwegian postglacial avalanches. Blikra, L.H., et al. [1993.eng] 50-835
- Paleoclimatic implications of Swedish lake-level fluctuations. Almqvist-Jacobson, H., [1995.eng] 50-2716
- Paleoclimatic import of gravel deposits on a Chinese plateau. Liu, T.S., et al. [1996.eng] 50-5098
- Paleoclimatic interpretation of rock glacier dating. Nicholas, J.W., et al. [1996.eng] 50-5577
- Paleoclimatic interpretation of topographic variations in Tibetan lake shorelines. Avouac, J.P., et al. [1996.eng] 50-5094
- Paleoclimatic models of Chinese loess and paleosol sequences. Thompson, R., et al. [1995.eng] 50-2542
- Paleoclimatic reconstructions from antarctic volcanic ash deposits. Marchant, D.R., et al. [1996.eng] 50-4233
- Paleoclimatic significance of a new Arctic Ocean foraminiferal fauna. Mullen, M.W., et al. [1995.eng] 50-3349
- Paleoclimatological implications of lacustrine ostracod ecology. Heaton, T.H.E., et al. [1995.eng] 50-2859
- Paleoclimatological import of Himalayan tree palynological samples. Nakagawa, T., et al. [1996.eng] 50-4745
- Paleoclimatological significance of Quaternary diatom lake deposits in Qinghai-Xizang (Tibet). Li, J.Y., et al. [1994.eng] 50-1536
- Paleoclimatological variations from isotope analysis of marine deposits. Rial, J.A., [1995.eng] 50-1286
- Paleoclimatology of Kamchatka from Cenozoic plant and foraminifera fossils. Fotianova, L.I., et al. [1994.eng] 50-900
- Paleoclimatic implications of frost-shattered sediments on the Norwegian coast. Blikra, L.H., et al. [1995.eng] 50-2167
- Paleoclimatic implications of Patagonian Quaternary pollen diagrams. Heusser, C.J., [1995.eng] 50-2164
- Paleoecological record of 6 ka BP climate in the Canadian prairie provinces. Vance, R.E., et al. [1995.eng] 50-1455
- Paleoecological study of Pleistocene mountain vegetation patterns. Gregory, K.M., et al. [1996.eng] 50-5081
- Paleoecology of arctic lake sediment macrofossils. Birks, H.H., [1991.eng] 50-3305
- Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st, Burg Wartenstein, Austria, June 8-17, 1979. [1982.eng] 50-3369
- Paleoenvironmental history of a Canadian freshwater lake. Hickman, M., et al. [1996.eng] 50-6666
- Paleoenvironmental implications of modern periglacial eolian deposits. Dijkman, J.W.A., et al. [1991.eng] 50-5172
- Paleogeographic conditions of continental syncretism on Central Yamal. Bolikhovskaya, N.S., et al. [1996.rus] 50-6351
- Paleogeographic implications of ostracod fauna in Karakorum Mountain lacustrine deposits. Li, Y.F., et al. [1994.eng] 50-1537
- Paleogeographical conditions of the degradation of Pleistocene frozen ground. Astakhov, V.I., [1990.rus] 50-1624
- Paleogeography of Cenozoic lithofacies and their evolution in the Qaidam Basin. Yang, Z.L., [1986.chi] 50-1982
- Paleogeography's grand unsolved problem. Grosval'd, M.G., et al. [1995.eng] 50-453
- Paleogeography: subject and methods, tasks and achievements. Avsiuk, G.A., et al. [1972.rus] 50-537
- Paleographic conditions for the formation of ice in homogenous ice varved clays. Karpov, E.G., et al. [1996.rus] 50-6377
- Paleohydrological changes in French mountains due to paleoclimatic changes. Magny, M., [1995.eng] 50-5038
- Paleomagnetism of a glacialine sequence, South Australia. Schmidt, P.W., et al. [1995.eng] 50-411
- Paleovegetation and paleoclimatic changes in the Yukon at 6 ka BP. Cwynar, L.C., et al. [1995.eng] 50-1451
- Palynology and sediment slumping in a high arctic Greenland lake. Fredskild, B., [1995.eng] 50-3368
- Palynology of the Quaternary glaciolacustrine deposits of Mount Xixia Bangma. Chen, S.M., et al. [1982.chi] 50-6604
- Past and present oceanic energy balance patterns. Newell, R.E., et al. [1989.eng] 50-5409
- Past changes in climate and tree growth in the western Americas. D'Arrigo, R.D., et al. [1996.eng] 50-4061
- Past glaciation and sea levels on Bjørnøya, Svalbard. Salvigsen, O., et al. [1995.eng] 50-4720
- Peat bog paleoclimatology and ecology adjoining an Italian glacier. Burga, C.A., [1995.fre] 50-862
- Periglacial deformations at an archaeological dig near Salzgritter. Preul, F., [1985.ger] 50-2790
- Periglacial denudation in the Richardson Mountains. Fried, G., et al. [1993.eng] 50-1675
- Periglacial landforms and sediments. Semmel, A., [1990.ger] 50-1793
- Periglacial phenomena found in Mount Xixia Bangma region. Zheng, B.X., et al. [1982.chi] 50-6607
- Permafrost distribution in the northern hemisphere under scenarios of climatic change. Anisimov, O.A., et al. [1996.eng] 50-6619
- Permafrost in glaciofluvial sediments of the last glaciation. Habbe, K.A., [1993.eng] 50-1678
- Permafrost variation in Hokkaido since the last glacial maximum. Nakayama, T., [1995.jpn] 50-906
- Permafrost, glaciifluvial and fluvial sediment transfer in the Austrian Alps. Veit, H., et al. [1993.eng] 50-1676
- Permafrost, the active layer, and changing climate. Lachenbruch, A.H., [1994.eng] 50-5930
- Photogrammetry and geomorphology of high arctic push moraines. King, L., et al. [1993.eng] 50-1673
- Phytogeographic relationships in the cool temperate rainforests of Chile. Arroyo, M.T.K., et al. [1996.eng] 50-4064
- Plan for the Japan-China joint study of the Taklimakan Desert. Japan. Science and Technology Agency. Research and Development Bureau. [1991.jpn] 50-1422
- Plankton blooms as evidence of Holocene climatic fluctuations. Thorsen, T.A., et al. [1995.eng] 50-2860
- Plate tectonics and climate change in the Cenozoic. Eldholm, O., et al. [1994.eng] 50-896
- Plausible hydrological scenario for the Belling-Allerød atmospheric methane increase. Kalin, R.M., et al. [1996.eng] 50-4376
- Pleistocene climatic changes in arctic marine atmospheres. Seidenkrantz, M.S., et al. [1996.eng] 50-5584
- Pleistocene glaciations in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1993.eng] 50-1677
- Pleistocene lacustrine record of a Chinese lake. Rhodes, T.E., et al. [1996.eng] 50-5095
- Pleistocene mountain glacier fluctuation in Chile. Andersen, B.G., et al. [1995.eng] 50-516
- Pleistocene paraglacial landsliding in South Wales. Shakesby, R.A., et al. [1996.eng] 50-5859
- Pleistocene termination in northern Eurasia. Velichko, A.A., [1995.eng] 50-505
- Plio-Pleistocene foraminiferal stratigraphy in North Greenland. Feyling-Haansen, R.W., [1990.eng] 50-5171
- Plio-Pleistocene megacycles: record of climate and tectonics. Kukla, G., et al. [1996.eng] 50-5099
- Plio-Pleistocene stratigraphy and paleobotany of the Kap København Formation. Bennike, O., [1990.eng] 50-5170
- Pliocene climates: the nature of the problem. Crowley, T.J., [1996.eng] 50-6624
- Pliocene paleoclimate of Dry Valleys of Southern Victoria Land. Marchant, D.R., et al. [1996.eng] 50-6629
- Pliocene record in the central Arctic Ocean. Clark, D.L., [1996.eng] 50-6626
- Polar news/Notizie polari, Vol.11, No.3. Centro Ricerca e Documentazione Polare, Rome. [1996.ita] 50-4768
- Pollen assemblages from a borehole in Dabsan Lake. Du, N.Q., et al. [1986.chi] 50-1986
- Pollen assemblages from small Canadian arctic lakes. Gajewski, K., [1995.eng] 50-6666
- Pollen content of Pleistocene deposits in the St. Lawrence Estuary. Clet, M., et al. [1995.fre] 50-4884
- Post-glacial mass flow and associated deposits in paleovalleys of Greenland. Collinson, J.D., et al. [1989.eng] 50-5168
- Postglacial development of river valleys in the middle part of the northern slope of Pomerania. Florek, W., [1991.pol] 50-4940
- Postglacial microbiological weathering of granite rocks moutonnées. André, M.F., [1995.eng] 50-4832
- Potential role of peatland dynamics in ice-age initiation. Klinger, L.F., et al. [1996.eng] 50-4587
- Precambrian glacioclastic sedimentation in East Greenland. Moncrieff, A.C.M., et al. [1990.eng] 50-935
- Preliminary study on fossil dunes in the Qaidam Basin. Zhong, D.C., [1986.chi] 50-1990
- Present and early Holocene foraminiferal distribution in eastern Svalbard. Hansen, A., et al. [1995.eng] 50-4718
- Primary division of Quaternary in Xinjiang. Yang, Z.X., et al. [1985.chi] 50-2004
- Problem on dividing the neotectonic units in Xinjiang. Bai, M.X., [1985.chi] 50-2008
- Problematic ice sheets. Rutter, N.W., [1995.eng] 50-498
- Proceedings. [1994.eng] 50-1531
- Progress in glaciology and Quaternary glaciation research in China since 1978. Shi, Y.F., et al. [1995.eng] 50-4510
- Progress report on studies to explain the mechanisms of desertification. [1989.jpn] 50-2034
- Qinghai Lake paleohydrological variations due to climatic changes. Nakao, K., et al. [1995.eng] 50-6718
- Qinghai-Xizang Plateau as a source region for climatic changes. Tang, M.C., et al. [1992.chi] 50-1479
- Qinghai-Xizang Plateau during the maximum glaciation. Shi, Y.F., et al. [1995.chi] 50-5616
- Quaternary bryophyte palaeo-ecology. Birks, H.J.B., [1982.eng] 50-5414
- Quaternary eolian deposits at a salt lake in the Qaidam Basin. Wang, J.D., et al. [1986.chi] 50-1994
- Quaternary Fourier stratigraphy: orbital templates and Milankovitch anomalies. Berger, W.H., [1994.eng] 50-1066
- Quaternary geology and cryogenic structure of Taymyr. Derivagin, A.I.U., et al. [1996.rus] 50-6375
- Quaternary geology and the last two glaciations in Alberta. Jackson, L.E., Jr. [1994.eng] 50-86
- Quaternary glacial in the Andes. Heine, K., [1995.eng] 50-4837
- Quaternary glaciation in the Karakoram and Himalayas. Derbyshire, E., [1996.eng] 50-5097
- Quaternary glaciations in the eastern and central Qinghai-Xizang Plateau. Hövermann, J., et al. [1994.ger] 50-4776
- Quaternary insects and their environments. Elias, S.A., [1994.eng] 50-2009
- Quaternary loess and stratigraphy in Inner Mongolia. Dong, G.R., et al. [1986.chi] 50-1991
- Quaternary of the loess plateau. Sun, J.Z., ed. et al. [1991.chi] 50-2010
- Quaternary processes in eastern China and international correlation. Yang, Z.G., et al. [1993.chi] 50-1843
- Quaternary record of eastern Svalbard—an overview. Landvik, J.Y., et al. [1995.eng] 50-4711
- Quaternary terraces and related deposits in the western Wind River Basin, Wyoming. Jaworowski, C., [1993.eng] 50-702

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- Questions in the application of the actualism principle in glaciology. Tronov, M.V., [1972.rus] 50-538
- Radiocarbon balances of two Tibetan Lakes from 13,000 BP. Fontes, J.C., et al., [1993.eng] 50-5027
- Radiocarbon date list VIII: Canada, Greenland, Iceland, and Antarctica. Manley, W.F., ed., et al., [1996.eng] 50-5927
- Radiocarbon dated common mussels *Mytilus edulis* from eastern Svalbard. Hjort, C., et al., [1995.eng] 50-4719
- Radiocarbon dating of glacial moraines in California. Dorn, R.I., [1996.eng] 50-6098
- Radiochronometry of the ice sheet in the Upper Pleistocene. Serebriannyi, L.R., [1972.rus] 50-539
- Radiolaria biostratigraphy of core S₁₁ in the area northwest of Antarctic Peninsula. Chen, W.B., [1989.chi] 50-6779
- Rapid climatic shifts during isotope stages 2-4 in the polar North Atlantic. Dokken, T.M., et al., [1996.eng] 50-6105
- Rapid oscillations in Vostok and GRIP ice cores. Yiou, P., et al., [1995.eng] 50-772
- Recent progress in Vostok ice core analysis studies on ancient air stored in ice cores. Uchida, T., [1995.jpn] 50-992
- Recent progress in Vostok ice core analysis: paleoclimate and paleoenvironment. Osada, K., [1995.jpn] 50-1000
- Reconstructing the climate of the Little Ice Age and its modeling. Kislov, A.V., et al., [1995.rus] 50-3773
- Reconstruction of the late Palaeozoic ice sheet on southwestern Gondwana. Visser, J.N.J., [1993.eng] 50-6318
- Reconstruction of the paleotemperature of the air according to ground ice isotopes. Koniakhin, M.A., [1990.rus] 50-1632
- Record of Holocene paleoclimate changes from glacial marine sediments in Lallemand Fjord. Shevenell, A.E., [1996.eng] 50-4074
- Relationship between surface and subsurface glaciation on the East European Plain in the Dnepr cold epoch. Nechaev, V.P., [1996.rus] 50-6357
- Report on the Mount Xixia Bangma region scientific expedition. [1964.1982.chi] 50-6593
- Research on the glaciation of the Larsemann Hills, East Antarctica. Li, S.K., [1995.chi] 50-3641
- Resolved: the Arctic controls global climate change. Alley, R.B., [1995.eng] 50-1167
- Response functions of tree-ring chronologies in western Tianshan Mountains. Yuan, Y.J., et al., [1995.chi] 50-5626
- Review of Late Cretaceous floras and climates of arctic Russia. Herman, A.B., [1994.eng] 50-902
- Review of multi-proxy data for the Younger Dryas in Atlantic Canada. Mayle, F.E., et al., [1995.eng] 50-4624
- Review of working groups on paleoclimate reconstruction from extinct plant data. Hubbard, R.N.L.B., ed., [1994.eng] 50-918
- Revision of the lateglacial Swedish varve chronology. Strömberg, B., [1990.eng] 50-1791
- Rhythmic nature of the Pleistocene. Maksimov, E.V., [1972.rus] 50-542
- Rhythmic sedimentation in Glacial Lake Hitchcock, Massachusetts-Connecticut. Ashley, G.M., [1975.eng] 50-4820
- Role of climate in periglacial solifluction. Harris, C., [1993.eng] 50-845
- Role of North Atlantic margin uplift in Cenozoic glaciation. Eyles, N., [1996.eng] 50-3386
- Role of principles and methods in loess-paleosol investigations. Pécsi, M., [1995.eng] 50-1035
- Scientific plan for a regional research programme in the Arctic on global change. International Arctic Science Committee (IASC), Oslo, Norway, [1994.eng] 50-1508
- Sea floor morphology and glacial history of the Barents Sea. Solheim, A., et al., [1988.eng] 50-887
- Sedimentary paleoclimatic indicators: what they are and what they tell us. Parrish, J.T., et al., [1993.eng] 50-1208
- Sedimentological data on cores from the Joides Basin. Corradi, N., et al., [1995.eng] 50-4394
- Shrinking of Quaternary lakes and environmental changes on the Tibetan Plateau. Zhao, Y.T., [1994.eng] 50-4781
- Siberian future climate predictions. Volkova, V.S., et al., [1995.eng] 50-6584
- Significance of the analysis of dominant boulders and the orientation of long axes of pebbles in moraines. Raukas, A.V., [1972.rus] 50-544
- Simulation of Quaternary loess deposit magnetic profiles. Anderson, R.S., et al., [1996.eng] 50-4584
- Soil isotopic evidence of Quaternary atmospheric circulation variations in North America. Amundson, R., et al., [1996.eng] 50-2722
- Soil polygenesis as a function of Quaternary climate change, northern Great Basin, USA. Chadwick, O.A., et al., [1995.eng] 50-1831
- Solifluction and climate in the Holocene: a North American perspective. Smith, D.J., [1993.eng] 50-834
- Solifluction and climatic variation in the Holocene. Frenzel, B., ed., et al., [1993.eng] 50-823
- Solifluction and climatic variation in the Holocene: discussion and synthesis. Mathews, J.A., et al., [1993.eng] 50-848
- Solifluction and related slope processes in the mountains of central Asia (Mongolia). Pekala, K., et al., [1993.eng] 50-832
- Solifluction in northern Eurasia: a review. Serebriannyi, L.R., et al., [1993.eng] 50-833
- Some contributions to the study of landforms and geomorphic processes. Barsch, D., ed., et al., [1993.eng] 50-1671
- Some early Palaeogene species from western Kamchatka. Lavrenko, O.D., et al., [1994.eng] 50-913
- Some geological problems regarding salt lakes on the Qinghai-Xizang Plateau. Zhang, P.X., [1986.chi] 50-1985
- Some late Pliocene and early Pleistocene pollen profiles from Poland. Stuchlik, L., [1994.eng] 50-916
- Some paleomagnetic study results in the Kuntuy Lake region of the Qaidam Basin. An, Z.S., [1986.chi] 50-1993
- Southern ocean Pleistocene water mass circulation variations. Diester-Haass, L., et al., [1996.eng] 50-3389
- Southwest Pacific paleoceanography and development of the East Antarctic Ice Sheet. Flower, B.P., et al., [1995.eng] 50-2609
- Spectroscopy of ice clathrate decomposition to air bubbles. Pauer, F., et al., [1996.eng] 50-3067
- Steepland geomorphology. Slaymaker, O., ed., [1995.eng] 50-4827
- Stratified slope deposits: the stone-banked sheets and lobes model. Bertran, P., et al., [1995.eng] 50-4834
- Stratigraphic detection of Greenland ice sheet chemical changes. Wolff, E.W., et al., [1995.eng] 50-584
- Stratigraphic position of kame deposits to the north of Bielsk Podlaski. Mycielska-Dowgiadło, E., et al., [1995.eng] 50-2617
- Stratigraphy of slope deposits and soils in the northeastern Great Basin and vicinity. Kleber, A., [1993.eng] 50-1681
- Stratigraphy of valley sediments of Polish river drainage basins. Superson, J., [1995.eng] 50-2616
- Studies on Holocene fluvial geomorphodynamics on the upper Oberweser. Thomas, J., [1993.ger] 50-2769
- Study on the sequences of the Quaternary glaciations in the Bayan Har Mountains. Zhou, S.Z., [1995.chi] 50-5633
- Subglacial sediment deformation and rapid changes in the Laurentide ice sheet. Jenson, J.W., et al., [1996.eng] 50-5915
- Summary of Project IGCP-253. Lundqvist, J., et al., [1995.eng] 50-497
- Summer temperatures from an ice core at Law Dome. Han, J.K., [1989.chi] 50-6771
- Swiss alpine palaeoclimate during the Holocene: pollen analytical evidence and general features. Burga, C.A., [1993.eng] 50-825
- Syngentic layered ground ice in littoral marine deposits in Baydaratskaya Bay. Spesivtsev, V.I., [1996.rus] 50-6384
- System of climatic geomorphology based on landscape typing. Hövermann, J., [1990.ger] 50-1782
- Taxus in plant communities of the Mazovian Interglacial Age in Central Europe. Krupinski, K.M., [1995.eng] 50-2613
- Taymyr Peninsula vegetation response to climatic changes. Koshkarova, V.L., [1995.eng] 50-4701
- Temperature fluctuations in climatic optima in the Holocene and Pleistocene. Klimanov, V.A., et al., [1995.rus] 50-4117
- Ten million year histories of obliquity and precession: the influence of the ice-age cycle. Jiang, X.H., et al., [1996.eng] 50-5044
- Terrestrial molluscs as indicators of global aeolian dust fluxes during glacial states. Rousseau, D.D., [1992.eng] 50-2552
- Tertiary climatic changes in the Russian Far East. Krassilov, V.A., [1994.eng] 50-901
- Thermoluminescence ages of loess and associated sediments in central Nebraska. USA. Pye, K., et al., [1995.eng] 50-2166
- Toba eruption sulfates recorded in GISP2 ice core. Zielinski, G.A., et al., [1996.eng] 50-5288
- Towards a review of Tertiary palaeobotany in the boreal realm. Boulter, M.C., [1994.eng] 50-893
- Tree-ring chronologies at the upper tree line in eastern Tibet. Bräuning, A., [1994.ger] 50-4780
- Treeline/midge correlation, Northwest Territories, Canada. Walker, I.R., et al., [1995.eng] 50-3326
- Use of karst deposits in the French Jura for paleoclimatological analysis. Chaline, J., et al., [1995.eng] 50-1122
- Variations of Upsala Glacier in southern Patagonia since the late Holocene to the present. Malagino, E., et al., [1992.eng] 50-379
- Vegetation and climate of Holocene megathermal in Zoige, northwestern Sichuan, China. Liu, G.X., et al., [1995.chi] 50-5635
- Vegetation and climate of maritime Canada 6000 years BP: a synthesis. Jetté, H., et al., [1995.eng] 50-1458
- Vegetation and climatic changes in the Qinghai-Xizang Plateau. Liu, G.X., et al., [1995.chi] 50-5620
- Vegetation of land-bridge Beringia. Young, S.B., [1982.eng] 50-3377
- Vegetation succession in ice age dating. Frenzel, B., [1990.ger] 50-1785
- Ventifacts as palaeo-wind indicators in southern Scandinavia. Schlyter, P., [1996.eng] 50-6698
- Vostok ice core deuterium variations over the last two glacial cycles. Waelbroeck, C., et al., [1995.eng] 50-4089
- Warming at 18,000 yr B.P. in the tropical Andes. Helmens, K.F., et al., [1996.eng] 50-5189
- Warta Glaciation (stage) within the Widawka drainage basin and the Bektatow mine. Baraniecka, M.D., [1993.pol] 50-3652
- Water fern residue as Chilean paleoclimatic indicator. Heusser, C.J., et al., [1996.eng] 50-5488
- What really ended the last ice age? Scientists say the oceans did it. [1992.eng] 50-720
- Younger Dryas as viewed through the Summit Greenland ice cores. Mayewski, P.A., [1994.eng] 50-5301
- Paleoecology**
- 12,000 year radiocarbon date of deglaciation from the continental divide of northwestern Montana. Carrara, P.E., [1995.eng] 50-3299
- 6 ka BP reconstruction for Newfoundland from pollen records. Macpherson, J.B., [1995.eng] 50-1459
- Alaskan Palaeogene climates as inferred from the CLAMP database. Wolfe, J.A., [1994.eng] 50-908
- Antarctic bottom water formation and the global cadmium to phosphorus relationship. Frew, R.D., [1995.eng] 50-752
- Applications of freshwater diatoms to geographical research. Moser, K.A., et al., [1996.eng] 50-5013
- Approaches to mathematical modeling of the steppe-tundra paleoclimate. Gal-Chen, T., [1982.eng] 50-3379
- Approaches to reconstructing the climate of the steppe-tundra biome. Barry, R.G., [1982.eng] 50-3378
- Arctic tundra biodiversity: a temporal perspective from Late Quaternary pollen records. Brubaker, L.B., et al., [1995.eng] 50-3894
- Arcto-Tertiary '93: perspectives and prospects. Collinson, M.E., [1994.eng] 50-917
- Beardmore Glacier glacial successions. Transantarctic Mountains. Webb, P.N., et al., [1996.eng] 50-6630
- Biogenic composition of ice-rafted debris in Atlantic Ocean bottom sediment. van Kreveld, S.A., et al., [1996.eng] 50-5219
- Boreal ecosystem development in the northwestern Alaska Range since 11,000 yr B.P. Hu, F.S., et al., [1996.eng] 50-4581
- Boundary of permafrost region in east China during last glacial epoch. Xu, S.Y., et al., [1989.chi] 50-1357
- British Columbia vegetation and climate history with focus on 6 ka BP. Hebda, R.J., [1995.eng] 50-1454
- Calibration of radiocarbon ages and the interpretation of paleoenvironmental records. Bartlein, P.J., et al., [1995.eng] 50-2018
- Canadian contribution to the Paleoclimate Model Intercomparison Project (PMIP). Jetté, H., [1995.eng] 50-1449
- Canadian paleoenvironments derived from pollen macrofossils. Gajewski, K., et al., [1995.eng] 50-2131
- Canadian permafrost distribution during the Holocene. Zolnai, S.C., [1995.eng] 50-1453
- Carbonate minerals in glacial sediments: geochemical clues to paleoenvironment. Fairchild, I.J., et al., [1990.eng] 50-925
- Cenozoic plants and climates of the Arctic. Boulter, M.C., ed., et al., [1994.eng] 50-892
- Climatic implications of ostracode deposits in Greenland Quaternary sediments. Brouwers, E.M., et al., [1991.eng] 50-2564
- Climatic significance of bristlecone pine frost-ring records. Brunstein, F.C., [1996.eng] 50-4338
- Comparison of tundra-steppe development in Beringia. Gitterman, R.E., et al., [1982.eng] 50-3371
- Composition, properties and radiocarbon age of humus in paleosols. Chichagova, O.A., [1995.eng] 50-1047
- Conifer relicts or paleoclimatic indicators. Mai, D.H., [1994.eng] 50-906
- Connecting links between the Arctic Palaeogene and European Tertiary floras. Kvaček, Z., [1994.eng] 50-910
- Correlation of Cenozoic dinoflagellate and pollen records. Hubbard, R.N.L.B., et al., [1994.eng] 50-897
- Cretaceous and Tertiary deposits in southern Xizang. Zhou, Z.C., et al., [1992.chi] 50-1502
- Cretaceous/Tertiary marine stratigraphy and petroleum potential. Tarim Basin. Tang, T.F., et al., [1989.chi] 50-1847
- Demarcation and paleotemperatures of the last glaciation in northern China. Sun, J.Z., et al., [1989.chi] 50-1358
- Desert and lake deposits in the Taklimakan Desert. Endo, K., et al., [1991.jpn] 50-1423
- Determination of alpine treeline variations from soil charcoal sediments. Carcaillet, C., et al., [1996.eng] 50-4746
- Determination of the mineral composition of similar types of paleosols intercalated in loess sequences. Gerei, L., et al., [1995.eng] 50-1044
- Determination of total carbonate content in some representative loess-paleosol profiles. Gerei, L., et al., [1995.eng] 50-1043
- Developmental conditions of the Farnham bog, Québec. Lavoie, M., et al., [1995.fre] 50-4885
- Diatom distribution on Baffin Island, Canada. Wolfe, A.P., [1996.eng] 50-6514
- Dinoflagellate cysts and climate change through the Neogene. Harland, R., [1994.eng] 50-899
- Early Holocene environment on Bjørnøya from lake sediments. Wohlfarth, B., et al., [1995.eng] 50-4721
- Early Holocene land floras and faunas from Edgeøya, eastern Svalbard. Bennike, O., et al., [1995.eng] 50-4717
- Early Tertiary vegetation and paleoclimatology of arctic Canada. Basinger, J.F., et al., [1994.eng] 50-905
- Early Weichselian interstadial land biotas at Thule, northwest Greenland. Bennike, O., et al., [1992.eng] 50-2553
- Early Weichselian interstadial sediments at Härnösand, Sweden. García Ambrosiani, K., et al., [1992.eng] 50-2559
- East Beringia during Late Wisconsin time: a review of the biotic evidence. Matthews, J.V., Jr., [1982.eng] 50-3374
- Eastern Canadian Arctic at ca. 6 ka BP: a time of transition. Williams, K.M., et al., [1995.eng] 50-1450
- Emilian interglacial and its termination. Dansgaard, W., et al., [1981.eng] 50-3622
- Effects of mammals on ecosystem change at the Pleistocene-Holocene boundary. Zimov, S.A., et al., [1995.eng] 50-3895
- Enhanced dating procedures for arctic Quaternary marine deposits. Goodfriend, G.A., et al., [1996.eng] 50-4580
- Eocene continental climates and latitudinal temperature gradients. Greenwood, D.R., et al., [1995.eng] 50-1808
- Estimate of the early Tertiary paleoclimate of the southern Arctic. Tiffney, B.H., [1994.eng] 50-911
- European paleoclimatic changes based on coleopteran analysis. Coope, G.R., et al., [1995.eng] 50-4665

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- Evidence for Holocene seismic triggering of Arctic Ocean turbidites. Grantz, A., et al. [1996,eng] 50-6223
- Evidence of Pleistocene drainage of a Scandinavian ice lake. Bergsten, H., et al. [1992,eng] 50-2555
- Expanded record of Quaternary oceanographic change: Amerasia Arctic Ocean. Ishman, S.E., et al. [1996,eng] 50-3388
- First appearance of Himalayas and its relation to global climatic events. Xu, Q.Q., [1992,chi] 50-1504
- Floristic changes in the areas surrounding the Paratethys during Neogene time. Kovar-Eder, J., et al. [1994,eng] 50-915
- Fluvial dynamics in the periglacial belt of the central Austrian Alps. Höfner, T., [1995,eng] 50-2751
- Fluvial sediment transfer in the Central Alps. Höfner, T., [1993,ger] 50-3335
- Foraminiferal evidence of Younger Dryas age cooling on the British Columbia shelf. Patterson, R.T., et al. [1995,eng] 50-5039
- Forest changes in the Great Lakes region at 5-7 ka BP. Anderson, T.W., [1995,eng] 50-1456
- Fossil burrows of mammals in the loess-ice deposits of the Kolyma-Indigirka Lowland. Gubin, S.V., et al. [1996,eng] 50-4146
- Fossil charophytes from the Qaidam Basin. Tang, L.H., et al. [1991,chi] 50-2032
- Fossil flora of the Paleogene climatic optimum in north eastern Asia. Budantsev, L.I.U., [1994,eng] 50-912
- Fossil plants as paleoenvironmental indicators. Chaloner, W.G., [1994,eng] 50-894
- Fossilization potential of arctic fjord and continental shelf benthic macrofaunas. Aitken, A.E., [1990,eng] 50-923
- Full-glacial shoreline vegetation during the maximum highstand at Owens Lake, California. Koehler, P.A., et al. [1994,eng] 50-1543
- Glaciomarine sediments from the Celtic Sea. Scourse, J.D., et al. [1990,eng] 50-932
- Global Younger Dryas? Peteet, D., [1995,eng] 50-804
- Gondwana stratigraphy in the Qinghai-Xizang Plateau. Yin, J.X., [1992,chi] 50-1503
- Gould Pond, Maine: late-glacial transitions from marine to upland environments. Anderson, R.S., et al. [1992,eng] 50-2561
- Greenland and United Kingdom paleotemperatures comparisons from Greenland snow accumulation rates. Lowe, J.J., et al. [1995,eng] 50-1082
- Gulf of Alaska paleoclimatological influence on marine ecology. Lagoe, M.B., et al. [1996,eng] 50-6625
- Hemispheric climate relations revealed by bottom sediment/ice core correlations. Charles, C.D., et al. [1996,eng] 50-6632
- History of the steppe-tundra concept. Hibbert, D., [1982,eng] 50-3375
- Holocene climatic, vegetation and pollen data of Siberia adjacent to the Laptev Sea. Naidina, O.D., [1995,eng] 50-2091
- Holocene environmental changes in a Tibetan lake basin, pt.2. Van Campo, E., et al. [1996,eng] 50-5091
- Holocene environmental changes in a Tibetan lake basin, pt.3. Fan, H., et al. [1996,eng] 50-5092
- Holocene solifluction at Okstindan, northern Norway: a reassessment. Worstley, P., [1993,eng] 50-829
- Holocene vegetation history of the eastern Qinghai-Xizang Plateau. Frenzel, B., [1994,ger] 50-4778
- Ice age terrestrial carbon changes revisited. Crowley, T.J., [1995,eng] 50-1148
- Ice-age history of Alaskan national parks. Elias, S.A., [1995,eng] 50-857
- Iceland paleoclimatology dynamics from volcanic ash in lacustrine deposits. Björck, S., et al. [1992,eng] 50-2547
- Identification of the Holocene-Pleistocene boundary in the Bering Sea by diatoms. Baldauf, J.G., [1982,eng] 50-3382
- Invasion of arcto-tertiary elements in the Paleogene of central Europe. Walther, H., [1994,eng] 50-909
- Isotope analysis of Bering Sea Pleistocene sediment variations. Nakatsuka, T., et al. [1995,eng] 50-3002
- Isotopic climatic records in the Alleröd-Bølling-Younger Dryas and post-Younger Dryas events. Epstein, S., [1995,eng] 50-2804
- Lake surface pollen sediments across the Siberian tree line. Clayden, S.L., et al. [1996,eng] 50-6746
- Late Cretaceous arctic plateaus and high latitude climate. Herman, A.B., [1994,eng] 50-903
- Late Eocene-Oligocene dinoflagellate provincialism in the North Atlantic Ocean. Damassa, S.P., et al. [1994,eng] 50-898
- Late glacial sedimentation and history of the Lake Nipigon Basin, Ontario. Lemoine, R.M., et al. [1995,eng] 50-4880
- Late Holocene record of aeolian and fire activity in northern Québec, Canada. Filion, L., et al. [1991,eng] 50-3304
- Late Pleistocene environment of north China. Zheng, H.H., et al. [1991,chi] 50-1844
- Late Pleistocene sedimentary environment near Urumqi. Han, S.T., et al. [1985,chi] 50-1998
- Late Pleistocene soil formation on coastal lowlands of northern Yakutia. Gubin, S.V., [1995,eng] 50-963
- Late Pleistocene vegetation of eastern Beringia: pollen analysis of dated alluvium. Schweger, C.E., [1982,eng] 50-3373
- Late Pleistocene-Holocene diatom record and paleoenvironment of Bangong Lake, Western Tibet. Fan, H., et al. [1994,eng] 50-1532
- Late Quaternary environmental history of Bátorliget, N.E. Hungary. Willis, K.J., et al. [1995,eng] 50-2165
- Late Quaternary foraminiferal stratigraphy from western Svalbard. Lycke, A.K., et al. [1992,eng] 50-2557
- Late Quaternary paleoceanography of the Eurasian Basin, Arctic Ocean. Cronin, T.M., et al. [1994,eng] 50-658
- Late Quaternary vegetation variations in western Beringia. Anderson, P.M., et al. [1996,eng] 50-4341
- Late-glacial and early Holocene vegetation of Snowdonia. Ince, J., [1996,eng] 50-4254
- Late-glacial palynology of the Myrtaceae of southern Chile. Zhou, M.M., et al. [1996,eng] 50-4744
- Latest Quaternary foraminifers and sediment transport in Perovets Canyon, Bering Sea. Starrau, S.W., [1995,eng] 50-3347
- Meteor impact and the Cretaceous-Tertiary transition in arctic plant fossils. Spicer, R.A., et al. [1994,eng] 50-904
- Method for the study of Quaternary environmental evolution of the loess plateau in China. Zhang, Z.H., et al. [1995,eng] 50-1045
- Methodology of loess palynology. Zelikson, E.M., [1995,eng] 50-1049
- Methods for classifying apparently homogeneous loess sequences. Molnár, B., et al. [1995,eng] 50-1041
- Migrations and evolution: computerised maps from computerised data. Brown, S.M., [1994,eng] 50-914
- Monitoring Termination II at high latitude: anomalies in the planktic foraminiferal record. Bauch, H.A., [1996,eng] 50-5223
- Neoglaciation and vegetation change in British Columbia. Clague, J.J., et al. [1996,eng] 50-4332
- New development in the study on Carboniferous biostratigraphy in northern Xinjiang. Liao, Z.T., et al. [1993,chi] 50-2356
- New paleontological evidence for continental drift in the Qinghai-Xizang Plateau. Wen, S.X., [1992,chi] 50-1506
- Nilssoniocladus* in the Cretaceous Arctic: new species and biological insights. Spicer, R.A., et al. [1996,eng] 50-6541
- North Sea lithostratigraphy related to glacial isostasy. Ekman, S.R.R., [1995,eng] 50-6560
- North Sea paleoenvironments during the last deglaciation. Knudsen, K.L., et al. [1996,eng] 50-6534
- Norwegian Sea Pleistocene ice-core indicators of climatic change. Sejrup, H.P., et al. [1995,eng] 50-6564
- On the connexion of vegetation dynamics with climatic changes in High Asia. Miehe, G., [1996,eng] 50-5089
- Organic compounds in a permafrost sediment core from Siberia. Matsumoto, G.I., et al. [1995,eng] 50-3844
- Paleoecophysiological studies on cretaceous and tertiary fossil floras. Beerling, D.J., [1994,eng] 50-895
- Paleoecological reconstruction of the Late Pleistocene, based on loess Malaco fauna in Hungary. Krollop, E., et al. [1995,eng] 50-1048
- Paleoecology of a cushion bog, southern Tierra del Fuego. Heusser, C.J., [1995,eng] 50-2726
- Paleoecology of two lake basins from Disko, West Greenland. Bennike, O., [1995,eng] 50-1081
- Paleogene flora of Spitsbergen: implications for arctic/tertiary climatostratigraphy. Manum, S.B., [1994,eng] 50-907
- Paleobotany and cladistics and cladistics in paleobotany: enlightenment and uncertainty. Nixon, K.C., [1996,eng] 50-4001
- Paleoclimate from diatom distribution in a marine core. Zhan, Y.F., [1989,chi] 50-6780
- Paleoclimatic atmospheric chemical changes inferred from fossil leaf density. Beerling, D.J., et al. [1995,eng] 50-6563
- Paleoclimatic changes and glacier variations in Colombia. Thourer, J.C., et al. [1996,eng] 50-6706
- Paleoclimatic implications of Swedish lake-level fluctuations. Almqvist-Jacobson, H., [1995,eng] 50-2716
- Paleoclimatic significance of a new Arctic Ocean foraminiferal fauna. Mullen, M.W., et al. [1995,eng] 50-3349
- Paleoclimatological significance of Quaternary diatom lake deposits in Qinghai-Xizang (Tibet). Li, J.Y., et al. [1994,eng] 50-1536
- Paleoclimatology of Kamchatka from Cenozoic plant and foraminifera fossils. Fotianova, L.I., et al. [1994,eng] 50-900
- Paleoecological implications of frost-shattered sediments on the Norwegian coast. Blikra, L.H., et al. [1995,eng] 50-2167
- Paleoecological implications of Patagonian Quaternary pollen diagrams. Heusser, C.J., [1995,eng] 50-2164
- Paleoecological record of 6 ka BP climate in the Canadian prairie provinces. Vance, R.E., et al. [1995,eng] 50-1455
- Paleoecological study of fire-induced lake water acidity variations. Korhola, A., et al. [1996,eng] 50-5020
- Paleoecological study of forest lines in southern Sweden. Björck, L., [1995,eng] 50-6080
- Paleoecological study of Pleistocene mountain vegetation patterns. Gregory, K.M., et al. [1996,eng] 50-5081
- Paleoecology of arctic lake sediment macrofossils. Birks, H.H., [1991,eng] 50-3305
- Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st, Burg Warstein, Austria, June 8-17, 1979. [1982,eng] 50-3369
- Paleoecology of Finnish lacustrine deposits. Sarmaja-Korjonen, K., [1995,eng] 50-4738
- Paleoecology of Swedish bogs. Segerström, U., et al. [1996,eng] 50-4373
- Paleoenvironmental history of a Canadian freshwater lake. Hickman, M., et al. [1996,eng] 50-6696
- Paleogeographic implications of ostracod fauna in Karakorum Mountain lacustrine deposits. Li, Y.F., et al. [1994,eng] 50-1537
- Paleogeographical studies of permafrost in the eastern Taymyr lowland. Sieget, C., et al. [1995,eng] 50-2092
- Paleorecords of plant biodiversity in the Alps. Ammann, B., [1995,eng] 50-3896
- Paleovegetation and paleoclimatic changes in the Yukon at 6 ka BP. Cwynar, L.C., et al. [1995,eng] 50-1451
- Palynology and sediment slumping in a high arctic Greenland lake. Fredskild, B., [1995,eng] 50-3368
- Peat bog paleoclimatology and ecology adjoining an Italian glacier. Burga, C.A., [1995,fre] 50-862
- Plankton blooms as evidence of Holocene climatic fluctuations. Thorsen, T.A., et al. [1995,eng] 50-2860
- Plankton ecosystems in the Norwegian and Greenland Sea. Samdøen, C., et al. [1995,eng] 50-749
- Pleistocene foraminifera in Arctic Ocean piston cores. Evans, J.R., et al. [1995,eng] 50-3348
- Pleistocene glaciomarine isostatic rebound, Puget Lowland, Washington. Dethier, D.P., et al. [1995,eng] 50-1832
- Pleistocene mountain glacier fluctuation in Chile. Andersen, B.G., et al. [1995,eng] 50-516
- Pleistocene slope deposits related to the Saint-Maurice Rhytmities, St. Lawrence Valley, Québec. Héty, B., et al. [1995,fre] 50-4883
- Pleistocene stratigraphy in the Lappajärvi meteorite crater in Ostrobothnia, Finland. Salonen, V.P., et al. [1992,eng] 50-2556
- Pleistocene treeline fluctuation in the Swiss Alps. Tinner, W., et al. [1996,eng] 50-5487
- Plio-Pleistocene foraminiferal stratigraphy in North Greenland. Feyling-Hanssen, R.W., [1990,eng] 50-5171
- Pollen assemblages from small Canadian arctic lakes. Gajewski, K., [1995,eng] 50-966
- Pollen content of Pleistocene deposits in the St. Lawrence Estuary. Clet, M., et al. [1995,fre] 50-4884
- Present and early Holocene foraminiferal distribution in eastern Svalbard. Hansen, A., et al. [1995,eng] 50-4718
- Qualitative successional models in Glacier Bay. Sharman, L.C., et al. [1995,eng] 50-3753
- Quaternary bryophyte paleo-ecology. Birks, H.J.B., [1982,eng] 50-5414
- Quaternary insects and their environments. Elias, S.A., [1994,eng] 50-2009
- Quaternary processes in eastern China and international correlation. Yang, Z.G., et al. [1993,chi] 50-1843
- Radioactive dating of pollen deposits in a Swedish lake. Regnell, J., [1992,eng] 50-2562
- Radiocarbon dated common mussels *Mytilus edulis* from eastern Svalbard. Hjort, C., et al. [1995,eng] 50-4719
- Radiocarbon dating of glacial moraines in California. Dorn, R.L., [1996,eng] 50-6098
- Radiolaria biostratigraphy of core S₁₁ in the area northwest of Antarctic Peninsula. Chen, W.B., [1989,chi] 50-6779
- Relics of the xerophyte vegetation of Beringia in northeastern Asia. Urtsev, B.A., [1982,eng] 50-3376
- Research on Tertiary palynology from the Qaidam Basin. Zhu, Z.H., et al. [1985,chi] 50-2033
- Review of Late Cretaceous floras and climates of arctic Russia. Herman, A.B., [1994,eng] 50-902
- Review of multi-proxy data for the Younger Dryas in Atlantic Canada. Mayle, F.E., et al. [1995,eng] 50-4624
- Review of working groups on paleoclimate reconstruction from extinct plant data. Hubbard, R.N.L.B., ed. [1994,eng] 50-918
- Role of principles and methods in loess-paleosol investigations. Pécsi, M., [1995,eng] 50-1035
- Siberian future climate predictions. Volkova, V.S., et al. [1995,eng] 50-6584
- Solifluction and related slope processes in the mountains of central Asia (Mongolia). Pekala, K., et al. [1993,eng] 50-832
- Some early Paleogene species from western Kamchatka. Lavrenko, O.D., et al. [1994,eng] 50-913
- Some late Pliocene and early Pleistocene pollen profiles from Poland. Stuchlik, L., [1994,eng] 50-916
- Southern ocean Pleistocene water mass circulation variations. Diester-Haass, L., et al. [1996,eng] 50-3389
- Stratigraphy and palynology of boreal peat in French bogs. Juigné, E., et al. [1995,fre] 50-4879
- Stratigraphy of redeposited fossils in Norwegian Pleistocene sediments. Vorren, T.O., et al. [1981,eng] 50-3625
- Succession in the Hudson Bay lowland, northern Ontario, Canada. Klinger, L.F., et al. [1996,eng] 50-5491
- Swiss alpine paleoclimate during the Holocene: pollen analytical evidence and general features. Burga, C.A., [1993,eng] 50-825
- Taymyr Peninsula vegetation response to climatic changes. Koshkarova, V.L., [1995,eng] 50-4701
- Terrestrial molluscs as indicators of global aeolian dust fluxes during glacial states. Rousseau, D.D., [1992,eng] 50-2552
- Tertiary climate changes in the Russian Far East. Krassilov, V.A., [1994,eng] 50-901
- Towards a review of Tertiary paleobotany in the boreal realm. Boulter, M.C., [1994,eng] 50-893
- Treeline/midge correlation, Northwest Territories, Canada. Walker, I.R., et al. [1995,eng] 50-3326
- Use of karst deposits in the French Jura for paleoclimatological analysis. Chaline, J., et al. [1995,eng] 50-1122
- Variations in Atlantic Ocean surface paleoceanography. Sarnthein, M., et al. [1995,eng] 50-3003
- Vegetation and climate of maritime Canada 6000 years BP: a synthesis. Jetté, H., et al. [1995,eng] 50-1458
- Vegetation cover of Québec-Labrador 6000 years BP: an essay. Richard, P.J.H., [1995,fre] 50-1457

Palsen

- Vegetation of land-bridge Beringia. Young, S.B., [1982.eng] 50-3377
- Vegetation of the continental Northwest Territories at 6 ka BP. MacDonald, G.M., [1995.eng] 50-1452
- Vegetation succession in ice age dating. Frenzel, B., [1990.ger] 50-1785
- Vegetational history of western Alaska during the Wisconsin glacial interval and the Holocene. Ager, T.A., [1982.eng] 50-3372
- Warming at 18,000 yr B.P. in the tropical Andes. Helmens, K.F., et al., [1996.eng] 50-5189
- Water fern residue as Chilean paleoclimatic indicator. Heusser, C.J., et al., [1996.eng] 50-5488
- Weichselian glaciation in Svalbard before 15,000 B.P. Salvigsen, O., et al., [1981.eng] 50-3623
- West Siberian Quaternary stratigraphy. Arkhipov, S.A., et al., [1994.eng] 50-1210
- White spruce light rings in northwestern Canada. Szeicz, J.M., [1996.eng] 50-5492
- Zooplankton communities of lakes in Glacier Bay National Park. Olson, O.G., et al., [1995.eng] 50-3751

Palsen

See [also]: Frost mounds

Paludification

- Myth of the classic hydrosere model of bog succession. Klinger, L.F., [1996.eng] 50-4331

Palyology

- 6 ka BP reconstruction for Newfoundland from pollen records. Macpherson, J.B., [1995.eng] 50-1459
- Arctic tundra biodiversity: a temporal perspective from Late Quaternary pollen records. Brubaker, L.B., et al., [1995.eng] 50-3894
- Biodiversity and climate in the coastal temperate rainforests of North America. Alaback, P.B., [1996.eng] 50-4063
- Biostratigraphic evidence of an Icelandic paleoclimatic oscillation. Rundgren, M., [1995.eng] 50-2017
- Boreal ecosystem development in the northwestern Alaska Range since 11,000 yr B.P. Hu, F.S., et al., [1996.eng] 50-4581
- British Columbia vegetation and climate history with focus on 6 ka BP. Hebda, R.J., [1995.eng] 50-1454
- Canadian paleoenvironments derived from pollen macrofossils. Gajewski, K., et al., [1995.eng] 50-2131
- Climate of western Siberia: past and future. Bukreeva, G.F., et al., [1995.eng] 50-6583
- Climatological interpretation of a firn pollen profile. Ambach, W., et al., [1967.ger] 50-5746
- Cold Wara stage in the light of palynological investigations. Jastrzebska-Mameka, M., [1993.pol] 50-3656
- Comparison of tundra-steppe development in Beringia. Gierman, R.E., et al., [1982.eng] 50-3371
- Correlation of Cenozoic dinoflagellate and pollen records. Hubbard, R.N.L.B., et al., [1994.eng] 50-897
- Developmental conditions of the Farnham bog. Québec. Lavoie, M., et al., [1995.fre] 50-4885
- East Beringia during Late Wisconsin time: a review of the biotic evidence. Matthews, J.V., Jr., [1982.eng] 50-3374
- Forest changes in the Great Lakes region at 5-7 ka BP. Anderson, T.W., [1995.eng] 50-1456
- Glacio-isostatic implications of Swedish Holocene shore displacement. Berghlund, M., [1995.eng] 50-3367
- Global Younger Dryas? Petet, D., [1995.eng] 50-504
- Holocene climatic, vegetation and pollen data of Siberia adjacent to the Laptev Sea. Naidina, O.D., [1995.eng] 50-2091
- Holocene environmental changes in a Tibetan lake basin, pt.2. Van Campo, E., et al., [1996.eng] 50-5091
- Holocene vegetation history of the eastern Qinghai-Xizang Plateau. Frenzel, B., [1994.ger] 50-4778
- Ice age terrestrial carbon changes revisited. Crowley, T.J., [1995.eng] 50-1148
- Lake surface pollen sediments across the Siberian tree line. Clayden, S.L., et al., [1996.eng] 50-6746
- Late Pleistocene deposits at Block Fen, Cambridgeshire, England. West, R.G., et al., [1995.eng] 50-6214
- Late Pleistocene vegetation of eastern Beringia: pollen analysis of dated alluvium. Schweger, C.E., [1982.eng] 50-3373
- Late Quaternary environmental history of Bátorliget, N.E. Hungary. Willis, K.J., et al., [1995.eng] 50-2165
- Late Quaternary paleoceanography of the mid- to outer continental shelf, East Greenland. Williams, K.M., et al., [1995.eng] 50-2810
- Late Quaternary vegetation variations in western Beringia. Anderson, P.M., et al., [1996.eng] 50-4341
- Late stage 5 glacio-isostatic sea in the St. Lawrence Valley, Canada and the United States. Occhipinti, S., et al., [1996.eng] 50-4577
- Late-glacial and early Holocene vegetation of Snowdonia. Ince, J., [1996.eng] 50-4254
- Late-glacial palynology of the Myrtaceae of southern Chile. Zhou, M.M., et al., [1996.eng] 50-4744
- Methodology of loess palynology. Zelikson, E.M., [1995.eng] 50-1049
- Micro-scale patterns of modern pollen deposition within three alpine plant communities. Pardoe, H.S., [1996.eng] 50-4253
- North Atlantic paleoclimatic effects on primary productivity. Versteegh, G.J.M., et al., [1996.eng] 50-6620
- Organic deposits at the bottom and top of sediments suggested to be Wartian. Goździk, J., et al., [1993.pol] 50-3654
- Paleoclimatic implications of Swedish lake-level fluctuations. Almquist-Jacobson, H., [1995.eng] 50-2716

- Paleoclimatological import of Himalayan tree palynological samples. Nakagawa, T., et al., [1996.eng] 50-4745
- Paleoecological implications of Patagonian Quaternary pollen diagrams. Heusser, C.J., [1995.eng] 50-2164
- Paleoecological study of forest lines in southern Sweden. Björkman, L., [1995.eng] 50-6080
- Paleoecology of arctic lake sediment macrofossils. Birks, H.H., [1991.eng] 50-3305
- Paleoecology of Finnish lacustrine deposits. Sarmaja-Korjonen, K., [1995.eng] 50-4738
- Paleoenvironmental history of a Canadian freshwater lake. Hickman, M., et al., [1996.eng] 50-6696
- Paleorecords of plant biodiversity in the Alps. Ammann, B., [1995.eng] 50-3896
- Paleovegetation and paleoclimatic changes in the Yukon at 6 ka BP. Cwynar, L.C., et al., [1995.eng] 50-1451
- Palynology and sediment slumping in a high arctic Greenland lake. Fredskild, B., [1995.eng] 50-3368
- Palynology of the Quaternary glaciolacustrine deposits of Mount Xixia Bangma. Chen, S.M., et al., [1982.chi] 50-6604
- Peat bog paleoclimatology and ecology adjoining an Italian glacier. Burga, C.A., [1995.fre] 50-862
- Plankton blooms as evidence of Holocene climatic fluctuations. Thorsen, T.A., et al., [1995.eng] 50-2860
- Pleistocene stratigraphy in the Lappajärvi meteorite crater in Ostrobothnia, Finland. Salonen, V.P., et al., [1992.eng] 50-2556
- Pleistocene termination in northern Eurasia. Velichko, A.A., [1995.eng] 50-505
- Pleistocene treeline fluctuation in the Swiss Alps. Tinner, W., et al., [1996.eng] 50-5487
- Pollen assemblages from a borehole in Dabsan Lake. Du, N.Q., et al., [1986.chi] 50-1986
- Pollen assemblages from small Canadian arctic lakes. Gajewski, K., [1995.eng] 50-966
- Pollen content of Pleistocene deposits in the St. Lawrence Estuary. Clet, M., et al., [1995.fre] 50-4884
- Profile of the sub-moraine organogenetic sediments in the forefield of the Renard Glacier. Dzierzek, J., et al., [1989.pol] 50-2890
- Profiles at Brus and Ruda (Lublin Polesie), and their significance for Mesopleistocene stratigraphy. Wojtanowicz, J., [1995.eng] 50-2615
- Quaternary loess and stratigraphy in Inner Mongolia. Dong, G.R., et al., [1986.chi] 50-1991
- Radioactive dating of pollen deposits in a Swedish lake. Regnell, J., [1992.eng] 50-2562
- Research on Tertiary palynology from the Qaidam Basin. Zhu, Z.H., et al., [1985.chi] 50-2033
- Review of multi-proxy data for the Younger Dryas in Atlantic Canada. Mayle, F.E., et al., [1995.eng] 50-4624
- Siberian future climate predictions. Volkova, V.S., et al., [1995.eng] 50-6584
- Some late Pliocene and early Pleistocene pollen profiles from Poland. Stuchlik, L., [1994.eng] 50-916
- Stratigraphic setting and paleogeography of the Warta Glaciation in northeastern Poland. Krupinski, K.M., et al., [1993.pol] 50-3661
- Stratigraphical position of kame deposits to the north of Bielsk Podlaski. Mycielska-Dowgiało, E., et al., [1995.eng] 50-2617
- Stratigraphy and palynology of boreal peat in French bogs. Juigné, E., et al., [1995.fre] 50-4879
- Succession in the Hudson Bay lowland, northern Ontario, Canada. Klinger, L.F., et al., [1996.eng] 50-5491
- Swiss alpine paleoclimate during the Holocene: pollen analytical evidence and general features. Burga, C.A., [1993.eng] 50-825
- Vegetation and climate of Holocene megathermal in Zoige, northwestern Sichuan, China. Liu, G.X., et al., [1995.chi] 50-5635
- Vegetation and climate of maritime Canada 6000 years BP: a synthesis. Jetté, H., et al., [1995.eng] 50-1458
- Vegetation and climatic changes in the Qinghai-Xizang Plateau. Liu, G.X., et al., [1995.chi] 50-5620
- Vegetation cover of Québec-Labrador 6000 years BP: an essay. Richard, P.J.H., [1995.fre] 50-1457
- Vegetation of land-bridge Beringia. Young, S.B., [1982.eng] 50-3377
- Vegetation of the continental Northwest Territories at 6 ka BP. MacDonald, G.M., [1995.eng] 50-1452
- Vegetational history of western Alaska during the Wisconsin glacial interval and the Holocene. Ager, T.A., [1982.eng] 50-3372
- Warming at 18,000 yr B.P. in the tropical Andes. Helmens, K.F., et al., [1996.eng] 50-5189
- Warta Glaciation deposits within the non-glaciated zone in the Polesie Lubelskie. Wojtanowicz, J., [1993.pol] 50-3668
- Weichselian chronostratigraphy and correlations. Möner, N.A., [1981.eng] 50-3624

See [also]: Pollen

Pamir-Alay

- Map of the annual river runoff in the Pamirs and Pamir-Alay. Kemmerikh, A.O., [1972.rus] 50-533
- Tien Shan: trends of changes in the geocryological conditions. Gorbunov, A.P., et al., [1996.rus] 50-6841
- Vertical temperature gradient of the air in the high mountains of Central Asia. Davidovich, N.V., [1972.rus] 50-534

Pamirs

- Building a glaciological information system for a surging glacier. Garelik, I.S., et al., [1994.rus] 50-3489

Particle size distribution

- Characteristics of the photosynthetic apparatus of plants. Pliankov, V.I., et al., [1995.rus] 50-4107
- Map of the annual river runoff in the Pamirs and Pamir-Alay. Kemmerikh, A.O., [1972.rus] 50-533
- Vertical temperature gradient of the air in the high mountains of Central Asia. Davidovich, N.V., [1972.rus] 50-534
- Panel heating**
See [also]: Radiant heating
- Panels**
Heat losses through outer protective enclosures with "Bridges of cold". Shapoval, A.F., et al., [1995.rus] 50-3086
- Laboratory testing of air retarders in metal building panels. Flanders, S.N., et al., [1995.eng] 50-1980
- Manual of ice protection. Sipos, B., ed., [1973.hun] 50-443
- New, low-cost, ice- and wave-resistant port facility at Nome, Alaska. Swigart, W.S., et al., [1991.eng] 50-1732
- Underground fuel tanks for Alaska. Freas, G.C., [1991.eng] 50-4226
- Particle collision**
See [also]: Ice crystal collision
- Particle size distribution**
Aerial component of the soil-foundation substrate in the southern part of the Maritime Territory. Elpatievskii, P.V., et al., [1995.eng] 50-3876
- Aerosols used as tracers for stratosphere-troposphere exchange in the Arctic. Foltescu, V.L., et al., [1995.eng] 50-777
- Age of carbon black atmospheric aerosols over Finland. Raunmaa, T., et al., [1996.eng] 50-5257
- Analysis of stone size and shape in arctic environments. King, C.A.M., et al., [1968.eng] 50-5760
- Arctic atmospheric aerosol number size distributions. Covert, D.S., et al., [1996.eng] 50-4315
- Arctic atmospheric particle measurements from forward scattering spectrometer. Dye, J.E., et al., [1990.eng] 50-5995
- Arctic stratospheric cloud and temperature variations, 1989. Hofmann, D.J., [1990.eng] 50-5985
- Atmospheric aerosol in the Finnish Arctic. Virkkula, A., et al., [1995.eng] 50-4952
- Block moraine formation of antarctic glaciers. Fitzsimons, S.J., [1996.eng] 50-6242
- Cloud condensation nuclei over the Arctic Ocean in early spring. Hegg, D.A., et al., [1995.eng] 50-348
- Cloud ice mass content from satellite radiometry and aircraft data. Matrosov, S.Y., et al., [1996.eng] 50-5277
- Contributions of snow and fog to Greenland ice sheet ionic variations. Bergin, M.H., et al., [1995.eng] 50-586
- Determination of the mineral composition of similar types of paleosols intercalated in loess sequences. Gerei, L., et al., [1995.eng] 50-1044
- Determination of total carbonate content in some representative loess-paleosol profiles. Gerei, L., et al., [1995.eng] 50-1043
- Dimethyl sulfide in the arctic atmosphere. Ferek, R.J., et al., [1995.eng] 50-2850
- Dispersion-by-chemical-reaction technology to stabilize asphalt tar. Brar, G.S., et al., [1995.eng] 50-727
- Distributions of volcanic aerosols in antarctic polar stratospheric clouds. Adriani, A., et al., [1995.eng] 50-2848
- Effect of breakup of melting snowflakes on the resulting size distribution of raindrops. Fujiyoshi, Y., et al., [1996.eng] 50-6724
- Effect of particle nonsphericity on bidirectional reflectance of cirrus clouds. Mishchenko, M.I., et al., [1996.eng] 50-5278
- Evidence of mechanism for polar stratospheric cloud dehydration. Gandrud, B.W., et al., [1990.eng] 50-6003
- For the control of blowing snow (1)—structure of blowing snow. Takeuchi, M., [1996.jpn] 50-4930
- Frazil evolution in channels. Hammar, L., et al., [1995.eng] 50-647
- Freeze/thaw treatment on zone settling of waste activated sludges. Chen, G.W., et al., [1996.eng] 50-5043
- Grading, degradation and compaction considerations in relation to specimen preparation. Hughes, R., [1977.eng] 50-2316
- Ground-based remote sensing of cloud ice particle sizes. Matrosov, S.Y., et al., [1995.eng] 50-3257
- Ice content retrieval from clouds using Doppler radar. Sauvageot, H., [1996.eng] 50-2772
- Ice nucleation activity in antarctic plants. Worland, M.R., et al., [1996.eng] 50-6221
- Ice rafting history from the Spitsbergen ice cap over the last 200 kyr. Lloyd, J.M., et al., [1996.eng] 50-5224
- Ion-induced nucleation around radon daughters in remote arctic maritime air. Bigg, E.K., [1996.eng] 50-4322
- Laboratory study of sediment deformation: stress heterogeneity and grain-size evolution. Iverson, N.R., et al., [1996.eng] 50-6256
- Laboratory technique for measurement of spectral induced polarization response of soil samples. Vanhala, H., et al., [1995.eng] 50-2998
- Magnetic analysis of glaciogenic sediment weathering. Walden, J., et al., [1995.eng] 50-6562
- Measuring snow particle size from video radar images. Hatanaka, M., et al., [1995.eng] 50-2579
- Measuring the density of snow particles and snowfall rate. Muramoto, K.I., et al., [1995.eng] 50-4573
- Model study of polar stratospheric clouds, pt.1. De Ridder, A., et al., [1996.eng] 50-6638
- Model study of polar stratospheric clouds, pt.2. Tie, X.X., et al., [1996.eng] 50-6639
- Observed particle evolution in the polar stratospheric cloud of January 24, 1989. Dye, J.E., et al., [1990.eng] 50-5996

Particles

Peat

- Oil-soluble resin-diverting agents in Prudhoe Bay acidizing operations. Strassner, J.E., et al. [1991,eng] 50-1698
- On the global variation of precipitating layer clouds. Ryan, B.F., [1996,eng] 50-3293
- On the sedimentological character of alpine basal ice facies. Hubbard, B., et al. [1996,eng] 50-6259
- Parameterization of cloud ice crystal conversion processes, pt.1. Harrington, J.Y., et al. [1995,eng] 50-3260
- Particle concentration of snow transported by wind. Martinez, H., et al. [1995,fre] 50-4643
- Passive microwave remote sensing of snow: volume scattering in antarctic firn. Tsang, L., et al. [1995,eng] 50-4181
- Physical interpretation of results from the HIPLEX-1 experiment. Cooper, W.A., et al. [1984,eng] 50-4920
- Potential of using spaceborne millimeter wavelength radar for ice cloud studies. Matrosov, S.Y., et al. [1994,eng] 50-1113
- Predicting sediment load of Swiss rivers. Hunziker, R.P., [1995,ger] 50-4173
- Profiles of particle characteristics in blowing snow. Naaim, M., et al. [1995,eng] 50-1062
- Radar and radiation properties of ice clouds. Atlas, D., et al. [1995,eng] 50-1246
- Radar observation of ice crystal orientation in thunderstorms. Caylor, J.J., et al. [1996,eng] 50-5684
- Radiative properties of cirrus clouds derived from surface interferometric measurements. Beck, G.H., et al. [1996,eng] 50-6569
- Radiative properties of ice clouds. Mitchell, D.L., et al. [1996,eng] 50-5279
- Role of droplet composition in polar stratospheric cloud freezing. Meilinger, S.K., et al. [1995,eng] 50-4874
- Rotating multicyclinder for measuring cloud water content and droplet size. Jones, K.F., et al. [1996,eng] 50-4032
- SAM II and lidar aerosol profile comparisons during AASE. Osborn, M.T., et al. [1990,eng] 50-5993
- Satellite monitoring of antarctic stratosphere volcanic aerosols. Saxena, V.K., et al. [1995,eng] 50-591
- Seasonal aerosol variability in the arctic marine boundary layer. Leck, C., et al. [1996,eng] 50-4320
- Simulation of rain production in convective clouds, pt.1. Reisin, T., et al. [1996,eng] 50-4369
- Size parameters of snow grains in scattering and emission models. Jin, Y.Q., [1995,eng] 50-4179
- Sounding of aerosol formation in the arctic stratosphere. Hofmann, D.J., et al. [1990,eng] 50-4725
- Sounding of arctic polar stratospheric clouds, 1990. Hofmann, D.J., et al. [1990,eng] 50-4731
- Source of summer arctic atmospheric aerosols. Maenhaut, W., et al. [1996,eng] 50-4321
- Statistical analysis of Thayer Hill Road heave data. Harr, M.E., et al. [1995,eng] 50-2030
- Sudden changes in arctic atmospheric aerosol concentrations during summer and autumn. Bigg, E.K., et al. [1996,eng] 50-4319
- Sulfate aerosols and climate change. Kerminen, V.-M., et al. [1994,eng] 50-3188
- Theoretical aspects of modeling backscattering by cirrus ice particles at millimeter wavelengths. Schneider, T.L., et al. [1995,eng] 50-3261
- Thunderstorm electrification analysis: the dependence on the temperature-LWC diagram. Scavuzzo, C.M., et al. [1996,eng] 50-3342
- Traction and hardening tests of mobile missile launcher over frozen ground. Chamberlain, E.J., et al. [1988,eng] 50-2524
- Transport of sand particles and dune shifting by wind in the Taklimakan Desert. Nagashima, H., [1991,jpn] 50-1431
- Transport of sand particles and dune shifting by wind in the Taklimakan Desert. Okumura, T., et al. [1991,jpn] 50-1432
- Ultrafine aerosol presence in the arctic atmospheric boundary layer. Wiedensohler, A., et al. [1996,eng] 50-4316
- Volcanic ash variations in the antarctic stratosphere. Anderson, J., et al. [1996,eng] 50-5613
- Volcanic perturbation of the atmosphere in both polar regions: 1991-1994. Herber, A., et al. [1996,eng] 50-3444
- Weddell Sea glaciomarine sedimentation variations. Crawford, K., et al. [1996,eng] 50-6261
- Particles**
- Aircraft observations of ice formation over the Japan Sea. Asuma, Y., et al. [1995,eng] 50-6716
- Comment on paper by Papasporis et al. Hill, S.C., et al. [1996,eng] 50-6336
- Competition of precipitation particles in a model with parameterized cloud microphysics. Wacker, U., [1995,eng] 50-413
- Ejection velocity of ice impact fragments. Arakawa, M., et al. [1995,eng] 50-2153
- Mechanism of formation of nanocrystalline hematite prepared by freeze-drying. Bermejo, E., et al. [1995,eng] 50-4289
- Noctilucent clouds and the thermal structure near the arctic mesopause in summer. Lübken, F.J., et al. [1996,eng] 50-5453
- On the particle characteristics of PSCs inferred from polarimetric experiment. Maslowska, A., et al. [1994,eng] 50-1114
- On the scattering behaviour of bullet-rose and bullet-shaped ice crystals. Strauss, B., [1996,eng] 50-6228
- Particle model for quasibrittle fracture and application to sea ice. Jirasek, M., et al. [1995,eng] 50-495
- Pelagic processes in the Norwegian and Greenland Seas. von Bodungen, B., et al. [1995,eng] 50-746
- Persistence of white phosphorus particles in sediment. Walsh, M.E., et al. [1995,eng] 50-878
- Possible high ice particle production during graupel-graupel collisions. Takahashi, T., et al. [1995,eng] 50-3005
- Power law determination of ice crystal particle velocities. Mitchell, D.L., [1996,eng] 50-6558
- Radio wave scattering from melting snow particles. Zhang, W., et al. [1996,eng] 50-6622
- Sulfate aerosols and climate change. Kerminen, V.-M., et al. [1994,eng] 50-3188
- Theoretical aspects of modeling backscattering by cirrus ice particles at millimeter wavelengths. Schneider, T.L., et al. [1995,eng] 50-3261
- See [also]: Aerosols*
- Patagonia**
- Characteristics of dynamics and ablation of glaciers in Patagonia. Naruse, R., [1995,jpn] 50-1173
- Moraines and ice scoured topographies in southern Patagonia. Yamada, S., [1992,eng] 50-380
- Recent glacier variations in the Patagonia icefield. Aniya, M., et al. [1996,jpn] 50-3505
- Statistical analysis of precipitation and air temperature in the southern Patagonia icefield. Peña, H., et al. [1992,eng] 50-381
- Variations of Upsala Glacier in southern Patagonia since the late Holocene to the present. Malagino, E., et al. [1992,eng] 50-379
- Water balance in the Patagonia icefield. Escobar, F., et al. [1992,eng] 50-382
- Patterned ground**
- Active patterned ground and cryoturbation on Muckish Mountain. Co. Donegal, Ireland. Wilson, P., et al. [1995,eng] 50-665
- Cryogenic fissures as a factor of soil anisotropy. Kulikov, A.I., [1996,eng] 50-5449
- Ecological aspects of the development of flat-polygonal bogs of Yamal. Kanev, V.V., et al. [1996,eng] 50-6580
- Electric soundings on polar landforms of the Northern Foothills. Guglielmin, M., et al. [1995,eng] 50-4391
- Forms of unusual patterned ground: examples from the Falkland Islands. South Atlantic. Wilson, P., [1995,eng] 50-2718
- Implications of frost heave for patterned ground, Tibet Plateau, China. Wang, B.L., et al. [1995,eng] 50-2808
- Landscape evolution in Antarctica. Campbell, I.B., et al. [1988,eng] 50-6526
- Patterned ground in the inner Woodford-area, NW Spitsbergen. Thannheiser, D., et al. [1994,ger] 50-1589
- Permafrost distribution in the southern circumpolar region. Bockheim, J.G., [1995,eng] 50-666
- Rates of heave and surface rotation of periglacial frost boils in the White Mountains, California. Wilkerson, F.D., [1995,eng] 50-3785
- Relict sorted patterned ground in Rostu, northernmost Sweden. Kling, J., [1996,eng] 50-5581
- Solifluction in the Swiss Alps and Bolivia. Graf, K., [1993,eng] 50-838
- See [also]: Polygonal topography*
- Pavement bases**
- Comparison of load restriction timings determined using FHWA guidelines and frost tubes. Yesiller, N., et al. [1996,eng] 50-4752
- Concepts for frost design for upgraded runway at CONUS Base 18. Johnson, T.C., [1984,eng] 50-2308
- Effect of fines content on frost heave. Tester, R.E., et al. [1996,eng] 50-6752
- Effect of water-table position on frost heave. Burns, J., [1977,eng] 50-2326
- Frost heave investigation of I 275. Novak, E.C., Jr., [1982,eng] 50-2058
- Heaving pressures and frost heave. Kettle, R.J., [1977,eng] 50-2324
- Incorporation of a drainage layer and infiltration into FROST. Abdel-Salam, A., et al. [1993,eng] 50-6050
- Mathematical model of frost heave and thaw settlement in pavements—draft. Guymon, G.L., et al. [1986,eng] 50-4348
- Mathematical model to correlate frost heave of pavements with laboratory predictions. Final report. Berg, R.L., et al. [1996,eng] 50-3333
- Predictive model of frost heave and thaw weakening. Guymon, G.L., et al. [1985,eng] 50-2310
- Proceedings. Seminar on the Prediction of Frost Heave, Nottingham, England, Apr. 9, 1981. [1981,eng] 50-2135
- Resilient modulus of cohesive soils and the effect of freeze-thaw. Lee, W.J., et al. [1995,eng] 50-578
- Soil sample compaction degradation related to grading variations. Pike, D.C., [1977,eng] 50-2321
- Universal frost susceptibility test apparatus. Chamberlain, E.J., [1986,eng] 50-1974
- Pavement heaving**
- See [also]: Frost heave*
- Pavement icing**
- See [also]: Road icing*
- Pavements**
- Asphalt pavements in permafrost on the Qinghai-Xizang Highway. Li, N.Y., et al. [1996,eng] 50-6178
- Asphaltic compositions and uses therefor. Long, H.W., [1995,eng] 50-3465
- Basic characteristics of antiskid rubber mats for roads. Yoshino, M., et al. [1995,jpn] 50-6805
- Bituminous pavements: building a bridge between theory and reality. Said, S.F., [1995,swe] 50-949
- Bituminous surface treatment (BST) of northern highways. MacLeod, D.R., et al. [1996,eng] 50-6184
- Case study of insulated pavement in Jackman, Maine. Kestler, M.A., et al. [1995,eng] 50-1155
- Cold recycling of reclaimed asphalt concrete. Test road in Värmland—three years experience. Jacobson, T., [1995,swe] 50-950
- Crack filler works well—even in freezing weather. Shorten, R., [1995,eng] 50-1559
- Cracking of asphalt pavement and its prevention. Tian, D.T., et al. [1989,chi] 50-1394
- Critical height of asphalt-paved highway embankments in permafrost. Zhu, L.N., et al. [1989,chi] 50-1393
- Device for the removal of snow and ice from road pavements. Vetter, V.I., et al. [1992,rus] 50-1934
- Effect of color and texture on the surface temperature of asphalt concrete pavements. Berg, R.L., [1985,eng] 50-4362
- Effect of microclimate on road superstructures. Final report. Dysli, M., et al. [1986,fre] 50-3320
- Effect of the environment on the bearing capacity of a road. Final report. Part 1. Pfister, R., et al. [1979,fre] 50-2451
- Environmental-induced longitudinal cracking in cold regions pavements. Scher, R.L., [1996,eng] 50-6181
- Evaluating the applicability of frost resistant pavements. Ninomiya, H., et al. [1995,jpn] 50-6803
- Evaluation of cold mixes for winter pothole repair. Powell, B.D., et al. [1995,eng] 50-2792
- Experimental pavement for road freezing countermeasures in Sapporo City. Katayama, K., et al. [1995,jpn] 50-6804
- Fatigue criteria for asphalt pavements. Laboratory and field criteria. Committee 34. Wiman, L.G., ed. [1996,swe] 50-5603
- Forecasting of deformation of asphalt paved frozen roadbed of the Qinghai-Xizang Highway. Wu, Z.W., et al. [1989,chi] 50-1392
- Ice-pavement bond disbonding—fundamental study. Blackburn, R.R., et al. [1993,eng] 50-876
- Innovative materials development and testing. Volume 2: pothole repair. Wilson, T.P., et al. [1993,eng] 50-1071
- Long-term evaluations of insulated roads and airfields in Alaska. Esch, D.C., [1995,eng] 50-1156
- Material properties, specifications and testing for pavements in cold regions. Chamberlain, E.J., et al. [1996,eng] 50-6195
- Mathematical model to correlate frost heave of pavements with laboratory predictions. Final report. Berg, R.L., et al. [1996,eng] 50-3333
- Measuring salt's effectiveness in New York. Hart, R.D., et al. [1995,eng] 50-1560
- Mitigation and durability of icy roads with urethane filled pavement grooving. Takeda, Y., et al. [1995,jpn] 50-6806
- Open graded base to reduce thaw weakening in flexible pavements. Kestler, M.A., [1996,eng] 50-6179
- Pavement design applying allowable frost heave. Saarela, S., [1996,eng] 50-6180
- Pavement distress caused by deep heave in Anchorage, Alaska. Tart, R.G., Jr., et al. [1996,eng] 50-6183
- Prediction of frost penetration beneath West Virginia pavements. Moulton, L.K., [1968,eng] 50-4549
- Process and product for removing ice or snow from a traffic surface. Dieupart, F., [1995,eng] 50-3468
- Research program for reducing frost heave with geosynthetic capillary barriers. Henry, K.S., et al. [1996,eng] 50-6129
- Road and airfield development in the subarctic and Arctic, Alaska and northwest Canada. Rooney, J.W., et al. [1996,eng] 50-6186
- Road surfaces under severe climatic conditions. Pigois, M.L., [1980,fre] 50-2444
- Roads and airfields in cold regions. Vinson, T.S., ed., et al. [1996,eng] 50-6185
- Studded tire research in Norway, Finland and Sweden. Johnson, E., et al. [1996,eng] 50-6163
- Study on methods to restore the performance of drainable pavements. Abe, A., et al. [1995,jpn] 50-6802
- Temperature and elasticity modulus of asphalt pavements. Balzer, S., [1992,eng] 50-2476
- Tests of asphalt pavements with improved drainage in cold regions. Toya, K., et al. [1995,jpn] 50-6801
- Thermal machine for clearing airport pavements of snow and ice. Mogutnov, A.A., [1992,rus] 50-1910
- Thermal stress measurements in asphalt concrete. Janoo, V.C., et al. [1993,eng] 50-760
- Use of alternative materials in pavement frost protection. Doré, G., et al. [1995,eng] 50-1157
- Use of layered theory in the design and evaluation of pavement systems. Hicks, R.G., et al. [1982,eng] 50-5914
- See [also]: Concrete pavements*
- Peat**
- Accumulation rates of carbon in mires in Finland and implications for climate change. Tolonen, K., et al. [1995,eng] 50-6078
- Atmospheric CO₂ in peat. White, J.W.C., et al. [1994,eng] 50-3770
- Biomass and production of vascular plants in a mesotrophic fen. Saarinen, T., et al. [1994,eng] 50-3215
- Canadian paleoenvironments derived from pollen macrofossils. Gajewski, K., et al. [1995,eng] 50-2131
- Canadian permafrost distribution during the Holocene. Zolai, S.C., [1995,eng] 50-1453
- Changes in the level of industrial air pollutants in peat bogs in the cryolithozone. Evseev, A.V., et al. [1996,rus] 50-6853
- Characteristics of working in permafrost in Transbaikalia. Kozlov, V.A., et al. [1993,rus] 50-111
- Cryogenic state of soil in the cryolithozone (Yakutia). Gavril'ev, P.P., et al. [1996,rus] 50-6844

Peatbog ice

- Developmental conditions of the Farnham bog, Québec. Lavoie, M., et al. [1995,fr] 50-4885
- Differences in carbon accumulation of two cut-over peatlands in Finland. Roderfeld, H., et al. [1994,eng] 50-3226
- Ecological aspects of the development of flat-polygonal bogs of Yamal. Kanev, V.V., et al. [1996,eng] 50-6580
- Ecological controls on peatland methane emissions in discontinuous permafrost. Bubier, J.L., et al. [1995,eng] 50-2803
- Effect of drainage intensity and fertilization on peat carbon compounds and their mineralization. Karsisto, M., et al. [1994,eng] 50-3225
- Effect of forest drainage on the carbon balance of peatland ecosystems. Laine, J., et al. [1994,eng] 50-3224
- Effect of technogenic disturbances on the thermal regime of soils in Central Yakutia. Skriabin, P.N., et al. [1996,rus] 50-6394
- Emissions of methane and nitrogen oxides from peatland ecosystems. Martikainen, P.J., et al. [1994,eng] 50-3220
- Energy flow to arctic tundra surface and experiences of induced disturbances. Rydén, B.E., [1993,eng] 50-2209
- Engineering-geocryological environment and changes in natural conditions in Puginsk. Shamanova, I.I., et al. [1985,rus] 50-247
- Fine root production and decomposition on drained peatlands. Finer, L., et al. [1994,eng] 50-3217
- Geographic information system for SILMU and the modelling of soil carbon flows. Alm, J., et al. [1994,eng] 50-3230
- Ground penetrating radar study of peat stratigraphy. Nobes, D.C., et al. [1992,eng] 50-63
- Heavy metal concentrations in peat profiles from the high Arctic. Headley, A.D., [1996,eng] 50-3721
- Large volume oil spill on land surface: the Vozey oil field, Russia. Zoltai, S.C., et al. [1995,eng] 50-5733
- Leaching of organic carbon and nitrogen from forested catchments. Kortelainen, P., et al. [1994,eng] 50-3221
- Naturalist's guide to the Arctic. Pielou, E.C., [1994,eng] 50-3804
- Paleoclimatic CO₂ record related to changes in oceanic thermohaline circulation. Figge, R.A., et al. [1995,eng] 50-1149
- Paleoecology of Swedish bogs. Segerström, U., et al. [1996,eng] 50-4373
- Peat bog paleoclimatology and ecology adjoining an Italian glacier. Burga, C.A., [1995,fr] 50-862
- Peat formation in the tundra of the Amguema valley and the Anadyr lowland. Smirnov, I.P., [1992,eng] 50-3435
- Permafrost change in a peatland in northern Quebec, 1983-1993. Laberge, M.J., et al. [1995,eng] 50-77
- Potential role of peatland dynamics in ice-age initiation. Klinger, L.F., et al. [1996,eng] 50-4587
- Rate of carbon accumulation in boreal mires. Tolonen, K., et al. [1994,eng] 50-3223
- Reactivating the ecosystems in the Russian Arctic. Zarubin, S.I., et al. [1994,rus] 50-289
- Response of leaching from mire ecosystems to changing climate. Sallantausta, T., [1994,eng] 50-3222
- Role of above-ground biomass in carbon cycling in drained peatland ecosystems. Laiho, R., et al. [1994,eng] 50-3216
- Searching for ways of stimulating oil biodegradation in soil. Kazakova, E.N., et al. [1994,rus] 50-281
- Stratigraphy and palynology of boreal peat in French bogs. Juviné, E., et al. [1995,fr] 50-4879
- Study on theoretical problems of peat resources of the Qinghai-Xizang Plateau. Sun, G.Y., [1992,chi] 50-1497
- Succession in the Hudson Bay lowland, northern Ontario, Canada. Klinger, L.F., et al. [1996,eng] 50-5491
- Using local peat and stripped rocks from quarries to revegetate lands in the Far North. Rozhdestvenskii, I.U.F., et al. [1994,rus] 50-296
- Vegetation of the continental Northwest Territories at 6 ka BP. MacDonald, G.M., [1995,eng] 50-1452
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995,eng] 50-3127
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995,eng] 50-4610
- Winter methane dynamics in a temperate peatland. Melloh, R.A., et al. [1996,eng] 50-6052

Peatbog ice

See [also]: Ground ice

Pedogenesis

See [also]: Soil formation

Pedology

See [also]: Soil science

Pellets

See [also]: Snow pellets

Penetration tests

- Borehole penetration and expansion devices for ice testing. Ladanyi, B., [1996,eng] 50-5048
- Breakthrough loads of floating ice sheets: small-scale tests with urea model ice. Sodhi, D.S., [1995,eng] 50-2939
- Cone penetration test (CPT) in cold regions engineering. Fortier, R., et al. [1996,eng] 50-6145
- Determining the mechanical resistance of snow by the Pandalp penetrometer. Daudon, D., et al. [1995,fr] 50-4683
- Effect of aging on the penetration resistance of sands. Joshi, R.C., et al. [1995,eng] 50-1823
- Effects of localized deformation on melting processes in ice. Wilson, C.J.L., et al. [1996,eng] 50-5470
- Hopkinson bar perforation of laminated composite. Nwosu, S.N., et al. [1995,eng] 50-2466
- Interpretation of field measurements for ice engineering applications. Gold, L.W., [1996,eng] 50-5050

- Interpretation of in situ borehole ice strength measurement tests. Masterson, D.M., [1996,eng] 50-5049
- Jet-cutting as an ice-breaking aid. Preliminary report on field tests for U.S. Coast Guard. Mellor, M., et al. [1973,eng] 50-3762
- Permafrost foundation creep prediction from cone penetration tests. Ladanyi, B., et al. [1995,eng] 50-1825
- Sea ice data report. Kovacs, A., et al. [1970,eng] 50-3854
- Penetrometers**
- Determining the mechanical resistance of snow by the Pandalp penetrometer. Daudon, D., et al. [1995,fr] 50-4683
- Sea ice data report. Kovacs, A., et al. [1970,eng] 50-3854
- Percussion drilling**
- Working element of a tool with lifting-percussion action. Glebov, V.D., et al. [1992,rus] 50-1915
- Perennially frozen ground**
- See [also]: Permafrost

Performance

- Analysis of outer shell wear for ice-going ships. Shemendiuk, G.P., et al. [1996,eng] 50-4467
- Arctic atmospheric particle measurements from forward scattering spectrometer. Dye, J.E., et al. [1990,eng] 50-5995
- Arctic platform evacuation vehicle. [1990,eng] 50-5588
- Arctic research vessel preliminary design report. University of Alaska. Institute of Marine Science, [1994,eng] 50-5437
- Buoy for all arctic seasons: the Ice-Ocean Environmental Buoy. Honjo, S.S., [1996,eng] 50-6673
- Calibration of a small, low-cost thermal infrared radiometer. Rapiet, C.B., et al. [1996,eng] 50-6623
- Can the Northern Sea Route be profitable. Schwarz, J., [1996,eng] 50-4490
- Comparison between neural network and statistical snowfall prediction methods. McGinnis, D.L., [1994,eng] 50-4356
- Compositional simulation and performance analysis of the Prudhoe Bay Miscible Gas Project. McGuire, P.L., et al. [1991,eng] 50-1702
- Design of ice-navigating cargo vessels. Kitagawa, H., [1996,eng] 50-4470
- Development of a portable ice-thickness measuring instrument. Glynn, D.P., et al. [1992,eng] 50-4908
- Development of a vehicle underfloor snow-melting robot. Imai, T., et al. [1995,eng] 50-1970
- Development of optimum hull forms for icebreaking cargo ships for the Northern Sea Route. Kishi, S., et al. [1996,eng] 50-4473
- Effects of steam quality on cyclic steam stimulation at Cold Lake, Alberta. Ho, D.W., et al. [1991,eng] 50-1703
- Electron cryo-microscopy of graphite in amorphous ice. Bötcher, B., [1995,eng] 50-1647
- Experimental study of skiing turns. pt.3. Sahashi, T., et al. [1996,eng] 50-5919
- Experimental voyage through Northern Sea Route. Yamaguchi, H., [1996,eng] 50-4425
- Fishing with 1.5- and 1.75-in. coiled tubing at western Prudhoe Bay, Alaska. Mullin, M.A., et al. [1991,eng] 50-1699
- Free vibrations of a snowboard. Sakata, T., et al. [1996,eng] 50-4568
- Frost heave—testing facilities. Kettle, R.J., [1977,eng] 50-2315
- Gas measurement with large Venturi tubes at Prudhoe Bay, Alaska. Metz, W.P., et al. [1991,eng] 50-1759
- High performance fiber optic hydrophones in the arctic environment. Yurek, A.M., et al. [1995,eng] 50-1211
- Hydrodynamic performance of ship hull forms designed for the NSR cargo ship. Uto, S., et al. [1996,eng] 50-4474
- Ice resistance of three bow forms for the NSR cargo ship. Izumiya, K., et al. [1996,eng] 50-4471
- Ice/snow thickness measuring system. Tank, C.L., et al. [1995,eng] 50-716
- Icebreaker transit analysis for a voyage across the Arctic Ocean. Brigham, L.W., [1996,eng] 50-4460
- Icing conditions encountered by a research aircraft. Sand, W.R., et al. [1984,eng] 50-4493
- Identification of ice classes and rules for ships intended to navigate in the Arctic. Karavanov, S.B., et al. [1996,eng] 50-4464
- International Arctic Buoy Program Meeting in Oslo. Dugan, J.P., [1992,eng] 50-3932
- Introductory analysis of boundary-layer development on de/anti-icing fluid. Perron, E., et al. [1996,eng] 50-4217
- Investigation into ice detection parameters for turboprop aircraft. Render, P.M., et al. [1996,eng] 50-4218
- Laboratory tests for ice interaction with steel booms. Timco, G.W., et al. [1996,eng] 50-5812
- Literature review on decontaminating groundwater sampling devices; organic pollutants. Parker, L.V., [1995,eng] 50-729
- Lost circulation material usage in coiled tubing remedial cementing at Prudhoe Bay. Krause, R.E., [1991,eng] 50-1706
- Millimetric radar backscatter from snowcover. Williams, L.D., et al. [1987,eng] 50-6200
- New device for the measurement of air content in polar ice. Lipenkov, V.I.A., et al. [1995,eng] 50-462
- Performance of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996,eng] 50-3408
- Pilot techniques during icing conditions. den Hertog, R., [1992,eng] 50-3795
- Precipitation hydrometer characterization by a CW Doppler radar. Duvernoy, J., et al. [1996,eng] 50-5165

- Preliminary study of tankers for year-round transportation of crude oil from Ob Gulf. Tsoi, L.G., et al. [1996,eng] 50-4461
- Remote sensing ice detection capabilities—East Coast. Rossiter, J.R., et al. [1995,eng] 50-1412
- Response of a research aircraft to icing and evaluation of severity indices. Politovich, M.K., [1996,eng] 50-4406
- Salient features of the design of large arctic ships with a restricted draft. Tsoi, L.G., [1996,eng] 50-4431
- Series of model tests in ice of ice-going cargo ships for future traffic in the Northern Sea Route. Ishikawa, S., et al. [1996,eng] 50-4472
- Simulation of ship transit for Baltic ice conditions. La Prairie, D., et al. [1995,eng] 50-4583
- Smart skis and other adaptive structures. Ashley, S., [1995,eng] 50-4618
- Standardization of corrosion wear of shell plating for ice ships operations. Kulesh, V.A., et al. [1996,eng] 50-4466
- Still the Great Lakes' best icebreaker. [1995,eng] 50-3039
- Submersible remote controlled vehicles for glacier-ocean-sediment study. Dowdswell, J.A., et al. [1996,eng] 50-4902
- Temporal weather impacts upon exterior intrusion detection systems. Ryerson, C.C., et al. [1995,eng] 50-4544
- Testing facilities—self refrigerating units. Frost cabinet temperature distribution. Hill, J., [1977,eng] 50-2314
- Thermal insulating geosynthetics as a soil protective cover substitute. Deutsch, W.L., Jr., [1995,eng] 50-2866
- Thixotropic, crosslinking polymer/borate/salt plug: development and application. Powell, J.W., et al. [1991,eng] 50-1707
- Towed geophone system for use in snow-covered terrain. King, E.C., et al. [1996,eng] 50-6225
- Universal frost susceptibility test apparatus. Chamberlain, E.J., [1986,eng] 50-1974
- Use of geosynthetics to prevent waterfowl white phosphorus poisoning. Henry, K.S., et al. [1995,eng] 50-2865
- Waterflood monitoring enhancement of offshore Alaskan oil reservoir management. Stiarzer, M.R., et al. [1991,eng] 50-1712
- See [also]: Cold weather performance

Periglacial processes

- Active patterned ground and cryoturbation on Muckish Mountain, Co. Donegal, Ireland. Wilson, P., et al. [1995,eng] 50-665
- Alpine tree line soil erosion derived from bedrock geomorphological map analysis. Stocker, E., [1996,ger] 50-6678
- Analysis of stone size and shape in arctic environments. King, C.A.M., et al. [1968,eng] 50-5760
- Boundary of permafrost region in east China during last glacial epoch. Xu, S.Y., et al. [1989,chi] 50-1357
- Central Appalachian periglacial geomorphology: a field excursion guidebook. Clark, G.M., ed. [1992,eng] 50-3712
- Changes in permafrost conditions. Vaikmäe, R., et al. [1995,eng] 50-506
- Changes in the Late Cenozoic environment of the Gonghe Basin in Qinghai. Xu, S.Y., [1986,chi] 50-1983
- Chronology of Upper Pleistocene stratified slope-waste deposits in central Italy. Coltrini, M., et al. [1996,eng] 50-6700
- Climatic controls on rates of solifluction: variations within Europe. Matthews, J.A., et al. [1993,eng] 50-849
- Comments on paper by González Suárez et al. Frochoso, M., et al. [1995,eng] 50-463
- Cryogenic landslides on the Yamal Peninsula, Russia: preliminary observations. Leibman, M.O., [1996,eng] 50-6703
- Dating of Holocene solifluction in the Austrian Alps. Veit, H., [1993,eng] 50-826
- Demarcation and paleotemperatures of the last glaciation in northern China. Sun, J.Z., et al. [1989,chi] 50-1358
- Development of the middle and lower course of the Weser River during the Late Pleistocene. Meinke, K., [1995,eng] 50-2746
- Dusty deposits (loesses) of the contemporary arctic zone. Wojtanowicz, J., [1993,eng] 50-2214
- Early Pleistocene glaciation in the Qinling Mountains of China. Rost, K.T., [1992,ger] 50-1682
- Ecologic-genetic analysis of tundra-steppe soils in northeastern Siberia. Cherniakhovskii, D.A., [1996,eng] 50-5447
- Ecological significance of German mountain periglacial deposits. Frühauf, M., [1990,ger] 50-4565
- Ecological situation in Russia and environmental protection in Magadan. Chernen'ko, B.I., [1991,rus] 50-439
- Effects of climatic change on permafrost in the arid and semiarid regions of China. Xie, Y.Y., [1995,eng] 50-3391
- Ensemble of periglacial landforms in three dimensions. Karte, J., [1990,ger] 50-1792
- Environmental research project for Yamburg gas fields. Chlenov, A.V., [1991,eng] 50-1766
- European soil thermal contraction related to ice sheet dynamics. van Vliet-Lanoe, B., [1996,fr] 50-6340
- Evolution of lowland landscapes in northeastern Asia during Late Quaternary time. Tomiadiro, S.V., [1982,eng] 50-3370
- Experimental design for laboratory simulation of periglacial solifluction processes. Harris, C., et al. [1996,eng] 50-5778
- Field guide to the Churchill region, Manitoba. Dredge, L.A., [1992,eng] 50-3910
- Finite element analysis of the creep of debris containing thin ice bodies. Azizi, F., et al. [1995,eng] 50-183
- Fluvial dynamics in the periglacial belt of the central Austrian Alps. Höfner, T., [1995,eng] 50-2751
- Fluvial morphology and streamflow on Deception Island, Antarctica. Inbar, M., [1995,eng] 50-4190
- Fluvial sediment transfer in the Central Alps. Höfner, T., [1993,ger] 50-3335

Periodic variations

Periodic variations

- Freeze-thaw weathering: the cold region "panacea". Hall, K., [1995,eng] 50-4697
- Frost denudation landforms at the hinterland on the Qinghai-Xizang Plateau. Zhang, W.X., et al. [1989,chi] 50-1354
- Gelifluction in the alpine periglacial environment of the Tianshan Mountains, China. Liu, G.N., et al. [1996,eng] 50-6704
- Genetic and ecological significance of alpine debris mulch soils. Liu, C.D., [1992,chi] 50-1493
- Geochemical process responses to potential Scandinavian climatic change. Dixon, J.C., et al. [1995,eng] 50-4194
- Geology of the eastern coast of Discovery Bay, Greenwich Island and the South Shetlands. Rudowski, S., [1989,pol] 50-2880
- Geomorphic effects of the retreat of Jamapa Glacier, Pico de Orizaba Volcano (Mexico). Palacios, D., et al. [1996,eng] 50-5578
- Geomorphological altitude zones in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4775
- Geomorphological mapping by remote sensing in Spitsbergen. Ståblein, G., et al. [1994,ger] 50-1583
- Geoscientific Spitsbergen Expedition 1990-1992. Blümel, W.D., ed. [1994,ger] 50-1574
- Glaciology and glacial geomorphology of fjords in Spitsbergen. King, L., et al. [1994,ger] 50-1586
- Gravimetric investigation of permafrost on the Blockglaciers Murtel-Corvatsch (Oberengadin). Klingel, E., et al. [1993,ger] 50-4909
- Ground temperature and frost heave near Showa Station. Sawagaki, T., [1995,eng] 50-3696
- Hillslope ice wedges and landform evolution on coastal arctic Canada. Mackay, J.R., [1995,eng] 50-3298
- Holocene climate fluctuations and geomorphic impact of extreme events in Svalbard. André, M.F., [1995,eng] 50-4192
- Holocene debris-flow activity in northern Sweden. Jonasson, C., [1993,eng] 50-837
- Holocene development of a debris slope in subarctic Québec, Canada. Marion, J., et al. [1995,eng] 50-2857
- Holocene mass movement on Scottish mountains. Ballantyne, C.K., [1993,eng] 50-831
- Holocene solifluction at Okstindan, northern Norway: a reassessment. Worsley, P., [1993,eng] 50-829
- How to make a palsa: a field experiment on permafrost formation. Seppälä, M., [1995,eng] 50-874
- Ice age research. Liedtke, H., ed. [1990,ger] 50-1780
- Icelandic turf-banked terrace geomorphology. Douglas, T.D., et al. [1996,eng] 50-5498
- Implications of frost heave for patterned ground, Tibet Plateau, China. Wang, B.L., et al. [1995,eng] 50-2808
- Influence of local factors on solifluction rates. Spitsbergen, Svalbard. Repelewski-Pekalowa, J., et al. [1993,eng] 50-842
- Italian research on solifluction in the Alps. Meneghel, M., [1993,eng] 50-827
- Land form development and pedogenesis: the effects of the last glacial cycle in the forest of Fougères (Ille et Villaine, Brittany, France). Van Vliet-Lanoë, B., et al. [1995,fre] 50-2996
- Late Pleistocene sedimentary environment near Urumqi. Han, S.T., et al. [1985,chi] 50-1998
- Late Quaternary glaciation history and landscape development in Spitsbergen. Blümel, W.D., et al. [1994,ger] 50-1578
- Late Weichselian deglaciation in the Murman offshore. Samoilovich, I.L.G., et al. [1993,eng] 50-2210
- Lichenometric dating of arctic/alpine slope processes. McCarroll, D., [1993,eng] 50-847
- Limestone karst morphology in the Himalayas of Nepal and Tibet. Waltham, A.C., [1996,eng] 50-4875
- Little Ice Age temperature estimated by arctic heather growth variations. Havström, M., et al. [1995,eng] 50-1121
- Modelling of permafrost depth in France during the last 120,000 years. Lebre, P., et al. [1996,fre] 50-4570
- Mountain permafrost and slope instability in the Italian Alps: the Val Pola landslide. Dramis, F., et al. [1995,eng] 50-669
- New Zealand talus-derived rock glacier climatic responses. Kirkbride, M., et al. [1995,eng] 50-6561
- Nivation in the High Tatras, Poland. Rączkowska, Z., [1995,eng] 50-4193
- Norwegian gelifluction stages from dated buried soils. Nesje, A., [1993,eng] 50-828
- Note on rock glaciers in the Albanian Alps. Palmentola, G., et al. [1996,eng] 50-6702
- Nunataks of the last ice sheet in northwest Scotland. McCarroll, D., et al. [1995,eng] 50-3366
- On the connexion of vegetation dynamics with climatic changes in High Asia. Miehe, G., [1996,eng] 50-5089
- On the definition of stratigraphical division boundaries in the Quaternary for the Scandinavian glaciated areas. Mojski, J.E., [1995,eng] 50-2610
- Paleocryogenic analysis of loess-paleosol sequences. Velichko, A.A., et al. [1995,eng] 50-1036
- Paleoclimatic interpretation of rock glacier dating. Nicholas, J.W., et al. [1996,eng] 50-5577
- Paleogeological implications of frost-shattered sediments on the Norwegian coast. Blikra, L.H., et al. [1995,eng] 50-2167
- Paleoenvironmental implications of modern periglacial eolian deposits. Dijkman, J.W.A., et al. [1991,eng] 50-5172
- Paleogeographic significance of Norwegian block field periglacial processes. Sellier, D., [1995,fre] 50-4878
- Paleogeographic significance of Norwegian block field periglacial processes. Sellier, D., [1995,fre] 50-4878
- Paleomagnetism of a glacial sequence, South Australia. Schmidt, P.W., et al. [1995,eng] 50-411
- Patterned ground in the inner Woodfjord-area, NW Spitsbergen. Thannheiser, D., et al. [1994,ger] 50-1589
- Patterns and causes of arctic plant community diversity. Walker, M.D., [1995,eng] 50-3889
- Pedogenic processes and evolution of the soils on moraines in alpine periglacial environments. Liu, G.N., et al. [1995,chi] 50-5631
- Periglacial deformations at an archaeological dig near Salzgitter. Preul, F., [1985,ger] 50-2790
- Periglacial denudation in the Richardson Mountains. Fried, G., et al. [1993,eng] 50-1675
- Periglacial elements in the geological structure and relief of northern Czestochowa. Kobjek, S., [1990,pol] 50-4941
- Periglacial landforms and sediments in Argentina. Trombato, D., [1991,ger] 50-1684
- Periglacial landforms and sediments. Semmel, A., [1990,ger] 50-1793
- Periglacial overlaying strata in the Bavarian forest. Völkel, J., [1993,eng] 50-1679
- Periglacial phenomena found in Mount Xixia Bangma region. Zheng, B.X., et al. [1982,chi] 50-6607
- Periodic water saturation of ice wedges: results of an oxygen-18 and deuterium study. Lauriol, B., et al. [1995,fre] 50-667
- Permafrost distribution in the southern circumpolar region. Bockheim, J.G., [1995,eng] 50-666
- Permafrost on the Tibet Plateau, China. Wang, B.L., et al. [1995,eng] 50-1856
- Permafrost, gelifluction and fluvial sediment transfer in the Austrian Alps. Veit, H., et al. [1993,eng] 50-1676
- Pleistocene glaciation of the Outer Hebrides, Scotland. Ballantyne, C.K., et al. [1995,eng] 50-6212
- Pleistocene soil evolution in a Russian upland. Sycheva, S.A., [1995,eng] 50-2147
- Pliocene paleoclimatic of Dry Valleys of Southern Victoria Land. Marchant, D.R., et al. [1996,eng] 50-6629
- Problems of dead ice and ground ice in the central part of the north European plain. Böse, M., [1995,eng] 50-508
- Proximal formation mechanisms in Norwegian sediments. Shakesby, R.A., et al. [1995,eng] 50-3328
- Quartz grain in the glacier and periglacial environment of Oscar II Land. Kowalkowski, A., et al. [1989,pol] 50-2900
- Quaternary glacial in the Andes. Heine, K., [1995,eng] 50-4837
- Quaternary periglacial conditions of a Himalayan river valley fill. Marb, B.S., et al. [1994,eng] 50-5548
- Radiocarbon dating of buried soils with particular reference to Holocene solifluction. Matthews, J.A., [1993,eng] 50-846
- Rates of heave and surface rotation of periglacial frost boils in the White Mountains, California. Wilkerson, F.D., [1995,eng] 50-3785
- Rates of rock surface lowering. Princess Elizabeth Land, eastern Antarctica. Spate, A.P., et al. [1995,eng] 50-4149
- Recent fluvial sediment budgets in glacial and periglacial environments, NW Spitsbergen. Barsch, D., et al. [1994,eng] 50-1584
- Relict sorted patterned ground in Rostu, northernmost Sweden. Kling, J., [1996,eng] 50-5581
- Relict sub-thermokarst of the periglacial region in the Quaternary glaciation. Molodtch, I.L., [1996,rus] 50-6356
- Role of climate in periglacial solifluction. Harris, C., [1993,eng] 50-845
- Scottish landform examples. 8: Solifluction sheets in the Bowmont Valley, Cheviot Hills. Harrison, S., [1993,eng] 50-3015
- Seasonal frost mounds of arctic beaches, Tuktoyaktuk Peninsula, Northwest Territories. Campeau, S., et al. [1995,fre] 50-4882
- Secondary precipitates in Pleistocene and present cryogenic environments. Vogt, T., et al. [1996,eng] 50-4045
- Slope processes and climate in the Abisko Mountains, northern Sweden. Rapp, A., et al. [1993,eng] 50-836
- Soil development on a glacier foreland, Kerguelen Is. Frenot, Y., et al. [1995,eng] 50-71
- Solifluction and climatic variation in the Holocene. Frenzel, B., ed. et al. [1993,eng] 50-823
- Solifluction and climatic variation in the Holocene: discussion and synthesis. Matthews, J.A., et al. [1993,eng] 50-848
- Solifluction and creep rates 1972-1991, Kapp Linné, West Spitsbergen. Åkerman, H.J., [1993,eng] 50-841
- Solifluction and related slope processes in the mountains of central Asia (Mongolia). Pekala, K., et al. [1993,eng] 50-832
- Solifluction controls in the French Alps. Pissart, A., [1993,eng] 50-839
- Solifluction in northern Eurasia: a review. Serebrianniy, L.R., et al. [1993,eng] 50-833
- Solifluction in northern Finland: past and present. Seppälä, M., [1993,eng] 50-830
- Solifluction in the Arctic and subarctic during the Holocene. Van Vliet-Lanoë, B., [1993,eng] 50-844
- Solifluction in the Swedish mountains. Ulfstedt, A.C., [1993,eng] 50-840
- Solifluction in the Swiss Alps and Bolivia. Graf, K., [1993,eng] 50-838
- Some contributions to the study of landforms and geomorphic processes. Barsch, D., ed. et al. [1993,eng] 50-1671
- Steepland geomorphology. Slaymaker, O., ed. [1995,eng] 50-4827
- Stratified slope deposits: the stone-banked sheets and lobes model. Bertran, P., et al. [1995,eng] 50-4834
- Suprapermafrost groundwater seepage in gravelly terrain. Resolute, NWT, Canada. Woo, M.K., et al. [1995,eng] 50-668
- System of climatic geomorphology based on landscape typing. Hövermann, J., [1990,ger] 50-1782
- Thermal differentiation in slopes of a small periglacial valley (Bellsund, Spitsbergen). Lanczont, M., et al. [1989,pol] 50-2910
- Thermal erosion in high arctic ecosystems in Spitsbergen. King, L., et al. [1993,eng] 50-843
- Tian Shan rock glaciers and periglacial processes. Cui, Z.J., et al. [1989,chi] 50-1355
- Valley bottoms in the late Quaternary. Schirmer, W., [1995,eng] 50-2748
- Vegetation cover and moisture effects on solifluction in Spitsbergen. Schmitt, E., [1994,ger] 50-1591
- Wutach gorge in SW Germany: late Würmian (periglacial) downcutting versus Holocene processes. Einsele, G., et al. [1995,eng] 50-2750
- See [also]: Glacial deposits
- Periodic variations**
- 10-century comparison of prominent bipolar volcanic events in ice cores. Langway, C.C., Jr., et al. [1995,eng] 50-583
- 130 years deposition record of sulfate, nitrate and chloride from a high-alpine glacier. Döschner, A., et al. [1995,eng] 50-4079
- Active layer thermal diffusivity from finite difference mathematical methods. Zhang, T., et al. [1995,eng] 50-1141
- Alaskan glacier races forward. [1993,eng] 50-4791
- Albedo of dirty snow during conditions of melt. Conway, H., et al. [1996,eng] 50-5969
- Alpine glacial advances derived from summer air temperature records. Bray, J.R., [1982,eng] 50-3380
- Alpine glaciers in the Little Ice Age—catalogue and C¹⁴ documentation. Zumbühl, H.J., et al. [1990,ger] 50-3398
- Alpine glaciers in the Little Ice Age. Zumbühl, H.J., et al. [1988,ger] 50-3397
- Analysis of periodic variations in paleoclimatic indicators. Bolton, E.W., et al. [1995,eng] 50-1216
- Asian glacier ice flow and mass continuity. Cherkasov, P.A., et al. [1996,eng] 50-6057
- Assessment of rock glacier sliding velocity. Whalley, W.B., et al. [1995,eng] 50-2809
- Atmospheric CO₂ variations inferred from antarctic ice composition. Etheridge, D.M., et al. [1996,eng] 50-3446
- Atmospheric contribution to hydrologic variations in the Arctic. Walsh, J.E., et al. [1994,eng] 50-1034
- Atmospheric deposition at Niwot Ridge, CO. Rusch, D., et al. [1995,eng] 50-2395
- Beach sedimentation on paraglacial coasts. Forbes, D.L., et al. [1995,eng] 50-1119
- Calculated and measured air and soil freeze-thaw frequencies. Baker, D.G., et al. [1995,eng] 50-1217
- Catastrophic storm surges in the southern part of the Laptev Sea. Ashik, I.M., et al. [1995,eng] 50-2068
- Century of accumulation and temperature changes in Dronning Maud Land, Antarctica. Isaksson, E., et al. [1996,eng] 50-4352
- Changes in the configuration of ice stream flow from the West Antarctic ice sheet. Jacobel, R.W., et al. [1996,eng] 50-4360
- Characteristics of tide-water calving at Glacier San Rafael, Chile. Warren, C.R., et al. [1995,eng] 50-450
- Climatic and geographic patterns in snow density dynamics, northern Eurasia. Onuchin, A.A., et al. [1996,eng] 50-4342
- Climatic controls on rates of solifluction: variations within Europe. Matthews, J.A., et al. [1993,eng] 50-849
- Climatic effects on terminus variations of a Norwegian glacier. Nesje, A., et al. [1995,eng] 50-1836
- Climatic implications of solar modulation of cosmogenic isotopes in antarctic ice cores. Steig, E.J., et al. [1996,eng] 50-3549
- Climatic implications of solar modulation of cosmogenic isotopes in antarctic ice cores. Steig, E.J., et al. [1996,eng] 50-3549
- CO₂ flux through a Wyoming seasonal snowpack: diffusional and pressure pumping effects. Massman, W., et al. [1995,eng] 50-2400
- Coastal Greenland Holocene sea level changes. Rasch, M., et al. [1995,eng] 50-5533
- Crop-hail damage in the Midwest corn belt. Hillaker, H.J., Jr., et al. [1985,eng] 50-4592
- Cryospheric indices of global change. Barry, R.G., et al. [1994,eng] 50-4789
- Dating of Holocene solifluction in the Austrian Alps. Veit, H., [1993,eng] 50-826
- Detection of climate change in the Arctic: an updated report. Ye, H.C., et al. [1994,eng] 50-3026
- Earth rotation, ocean circulation and paleoclimate. Möner, N.A., [1995,eng] 50-6063
- Effects of solar radiation variations on ice age initiation. Ledley, T.S., et al. [1995,eng] 50-1254
- Elastic response of the earth to interannual variations in antarctic precipitation. Conrad, C.P., et al. [1995,eng] 50-3089
- Electrodynamics of the upper atmosphere and radio aurora in the northern polar cap. Kustov, A.V., et al. [1994,eng] 50-1964
- Evaluation of controls on iceberg-calving glaciers. Wiles, G.C., et al. [1995,eng] 50-3324
- Evidence of a 22-year cycle in air temperature. Ol', A.I., et al. [1991,rus] 50-1639
- Evidence of Holocene sea level rise from Nova Scotian bottom sediments. Scott, D.B., et al. [1995,eng] 50-4528
- Floods resulting from glacial lake outbursts, Yrqiag River basin, Xinjiang, China. Li, J., et al. [1994,eng] 50-1535

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- Flow trajectories in the Bering Sea: evidence for chaos. Reed, R.K., et al. [1990,eng] 50-4730
- Foraminiferal evidence for Greenland environmental change. Jennings, A.E., et al. [1995,eng] 50-6079
- Forest changes in the Great Lakes region at 5-7 ka BP. Anderson, T.W., [1995,eng] 50-1456
- Frost-free record reconstruction for eastern Massachusetts, 1733-1980. Baron, W.R., et al. [1984,eng] 50-4915
- General circulation (GCM) modelling of palaeoclimates: a critique. Street-Perrott, F.A., [1991,eng] 50-3303
- Glacial isostasy and lateral mantle viscosity. Sabadini, R., et al. [1989,eng] 50-4710
- Glacier-fed delta at a Barents Sea fjord. Laberg, J.S., et al. [1996,eng] 50-5921
- Glaciers and global warming. Koerner, R.M., et al. [1995,eng] 50-5040
- Glaciological studies in the high central Andes using digital processing of satellite images. Llorens, R.E., et al. [1995,eng] 50-3339
- Global sea level rise and glacial isostatic adjustment. Peltier, W.R., [1996,eng] 50-4310
- Greenland ice sheet thickness changes measured by laser altimetry. Krabill, W., et al. [1995,eng] 50-751
- Greenland ice sheet thickness changes measured by laser altimetry. Thomas, R., et al. [1993,eng] 50-4803
- Growth curves for calcium-tolerant lichens in the Canadian Rocky Mountains. McCarthy, D.P., et al. [1995,eng] 50-3330
- Hail in southwestern France. I: Halfall characteristics and hailstorm environment. Dessens, J., [1986,eng] 50-4911
- Herb reproductive timing in relation to snow conditions. Morton, M.L., [1994,eng] 50-1542
- Historical record of blizzards/major snow events in the British Isles, 1880-1989. Wild, R., et al. [1996,eng] 50-3961
- Historical records of fatty acids in an ice core from Site-J, Greenland. Kawamura, K., et al. [1995,eng] 50-3247
- Holocene climate fluctuations and geomorphic impact of extreme events in Svalbard. André, M.F., [1995,eng] 50-4192
- Holocene debris-flow activity in northern Sweden. Jonasson, C., [1993,eng] 50-837
- Holocene mass movement on Scottish mountains. Ballantyne, C.K., [1993,eng] 50-831
- Holocene solifluction in the Swiss Alps: dating and climatic implications. Gampier, M., [1993,eng] 50-824
- Holocene subalpine lake fluctuations in France. Magny, M., [1992,eng] 50-2560
- Ice age terrestrial carbon changes revisited. Crowley, T.J., [1995,eng] 50-1148
- Ice buoy tests of Barents Sea tidal motions. Pease, C.H., et al. [1995,eng] 50-2776
- Ice flow vectors on the debris-mantled Tasman Glacier, 1957-1986. Kirkbride, M., [1995,eng] 50-2717
- Ice-crystal fogs of central Sakha. Osipov, D.A., [1995,eng] 50-4702
- Ice-flow indications of complex Alaskan deglaciation events. Syverson, K.M., [1995,eng] 50-1801
- Ice-volume forcing of East Asian winter monsoon variations in the past 800,000 years. Ding, Z.L., et al. [1995,eng] 50-965
- Influence of local factors on solifluction rates, Spitsbergen, Svalbard. Repelewski-Pekalowa, J., et al. [1993,eng] 50-842
- Instability trends of inertially coupled galloping, part 2: periodic variations. Yu, P., et al. [1995,eng] 50-1054
- Interdecadal climate variability in the subpolar North Atlantic. Wöhlehen, T.M.H., et al. [1995,eng] 50-2743
- Late Holocene snow avalanche activity in southern Norway. McCarroll, D., et al. [1995,eng] 50-3336
- Late Quaternary flux of eolian dust to the pelagic ocean. Rea, D.K., et al. [1994,eng] 50-1242
- Late Quaternary paleoceanography of the mid- to outer continental shelf, East Greenland. Williams, K.M., et al. [1995,eng] 50-2810
- Late-glacial advances in the western Italian Alps. Porter, S.C., et al. [1982,eng] 50-3383
- Laurentide ice sheet oscillations as cause of Atlantic Ocean Heinrich events. MacAyeal, D.R., [1993,eng] 50-2869
- Lichenometric analysis of the Kärkerieppe slush-avalanche fan, Kärkevagge, Sweden. Bull, W.B., et al. [1995,eng] 50-4191
- Links between proglacial stream sediments and glacier motion. Willis, I.C., et al. [1996,eng] 50-6091
- Long-term observations for monitoring of the cryosphere. Walsh, J.E., [1995,eng] 50-3350
- Long-term snow variations at Nagaoka, Japan. Nakamura, T., et al. [1996,eng] 50-4898
- Long-term trend in sea ice thickness variation in the Arctic basin. Nagurnyi, A.P., [1995,eng] 50-5479
- Low-order model of the Heinrich event cycle. MacAyeal, D.R., [1993,eng] 50-2868
- Measurements of upward turbulent ozone fluxes above a subalpine spruce-fir forest. Zeller, K., et al. [1996,eng] 50-5289
- Meltwater drainage patterns from alpine glaciers. Collins, D.N., [1995,eng] 50-2430
- Mid stratospheric ozone minima in polar regions. Austin, J., et al. [1995,eng] 50-1181
- Model of Greenland and antarctic ice sheet thickness variations. Verbitskii, M.I.A., et al. [1995,eng] 50-642
- Mountain hemlock expansion in a subalpine ecosystem. Taylor, A.H., [1995,eng] 50-3321
- New ice jam database. White, K.D., [1996,eng] 50-4410
- Nonlinear acoustic effects due to cracks in ice cover. Ekimov, A.E., et al. [1996,eng] 50-5291

- Northern exposures. Thomson, K.S., [1993,eng] 50-3146
- Numerical analysis of atmospheric water cycle over Antarctica. Bromwich, D.H., et al. [1995,eng] 50-2020
- Numerical prediction of sea surges and ice conditions on the Laptev and East-Siberian Sea. Ashik, I.M., [1995,eng] 50-2069
- On the interannual variability of precipitation and runoff in the Mackenzie drainage basin. Björnsson, H., et al. [1995,eng] 50-2737
- Origin of present-day antarctic precipitation from surface snow deuterium excess data. Clais, P., et al. [1995,eng] 50-636
- Oscillatory behavior in arctic sea ice concentrations. Gloersen, P., et al. [1996,eng] 50-4300
- Paleoclimatic implications of Swedish lake-level fluctuations. Almquist-Jacobson, H., [1995,eng] 50-2716
- Paleoclimatological variations from isotope analysis of marine deposits. Rial, J.A., [1995,eng] 50-1286
- Paleoglaciology's grand unsolved problem. Grosvald, M.G., et al. [1995,eng] 50-453
- Periodic variations in air-water gas exchange of Arctic Ocean insecticide pollutants. Jantunen, L.M., et al. [1995,eng] 50-1862
- Photometry of Mt. Pinatubo aerosols at Spitsbergen. Beyerle, G., et al. [1995,eng] 50-1183
- Planetary waves in total ozone and their relation to antarctic ozone depletion. Bodeker, G.E., et al. [1995,eng] 50-4541
- Pleistocene glaciation and the Earth's precession constant. Mitrovica, J.X., et al. [1995,eng] 50-517
- Pleistocene-Holocene fluxes are not the Earth's norm. Hay, W.W., [1994,eng] 50-1237
- Polar cap aurorae tell the time. Egeland, A., et al. [1995,eng] 50-1151
- Preliminary hydrological results from Sarennes glacier basin, French Alps. Barbet, D., et al. [1993,eng] 50-5690
- Probability distributions used in 100-year return period of air-freezing index. Steurer, P.M., [1996,eng] 50-4753
- Quaternary fluvio-morphological processes. Bibus, E., et al. [1995,eng] 50-2747
- Quaternary Fourier stratigraphy: orbital templates and Milankovitch anomalies. Berger, W.H., [1994,eng] 50-1066
- Recent air pollution variations inferred from Greenland ice sheet heavy metal concentrations. Candelone, J.P., et al. [1995,eng] 50-590
- Recent history of the Bering Strait. Svitoch, A.A., et al. [1995,eng] 50-2535
- Recent oscillations of the San Quintin and San Rafael glaciers, Patagonia Chile. Winchester, V., et al. [1996,eng] 50-5579
- Reconstruction of 1000-year winter precipitation from tree rings in New Mexico. D'Arrigo, R.D., et al. [1991,eng] 50-5032
- Reconstruction of the ice winter severity since 1701 in the western Baltic. Koslowski, G., et al. [1995,eng] 50-1957
- Relations between atmospheric circulation and glacier mass balance. McCabe, G.J., Jr., et al. [1995,eng] 50-3323
- Satellite imagery of the onset of streaming flow of ice streams C and D, West Antarctica. Hodge, S.M., et al. [1996,eng] 50-4301
- Sea level variations related to glacial isostasy. Mitrovica, J.X., et al. [1995,eng] 50-1185
- Sediment flux along glaciated continental margins. Andrews, J.T., et al. [1994,eng] 50-1241
- Simulation of Quaternary loess deposit magnetic profiles. Anderson, R.S., et al. [1996,eng] 50-4584
- Slope processes and climate in the Abisko Mountains, northern Sweden. Rapp, A., et al. [1993,eng] 50-836
- Snow accumulation rate from synthesis of microwave and altimeter data. Davis, C.H., [1995,eng] 50-162
- Snow and sea ice correlation to Chinese summer air temperatures. Fu, C.B., [1983,eng] 50-4099
- Solar particle origin for polar ice core nitrate anomalies. Zeller, E.J., et al. [1995,eng] 50-1184
- Solifluction and climatic variability in the Holocene: discussion and synthesis. Mathews, J.A., et al. [1993,eng] 50-848
- Solifluction and creep rates 1972-1991, Kapp Linné, West Spitsbergen. Åkerman, H.J., [1993,eng] 50-841
- Solifluction in northern Finland: past and present. Seppälä, M., [1993,eng] 50-830
- Solifluction in the Arctic and subarctic during the Holocene. Van Vliet-Lanoë, B., [1993,eng] 50-844
- Space-time distribution of temperature inversions in the arctic atmospheric boundary layer. Nagurnyi, A.P., [1995,eng] 50-2728
- Spatial and temporal distribution of storm precipitation in southwestern British Columbia. Loukas, A., et al. [1996,eng] 50-2603
- Spectra of polar mesospheric noctilucent cloud ice nuclei. Sugiyama, T., et al. [1996,eng] 50-4255
- Stratigraphic detection of Greenland ice sheet chemical changes. Wolff, E.W., et al. [1995,eng] 50-584
- Study of short term variability in oceanographic data with the aid of numerical filters. Potanin, V.A., et al. [1992,eng] 50-1267
- Subglacial lake burst variations in Iceland. Gudmundsson, M.T., et al. [1995,eng] 50-449
- Sulfur hexafluoride—a powerful new atmospheric tracer. Mais, M., et al. [1996,eng] 50-5608
- Summer solstice solar radiation, the 100 kyr ice age cycle, and the next ice age. Ledley, T.S., [1995,eng] 50-1214
- Swiss alpine palaeoclimate during the Holocene: pollen analytical evidence and general features. Burga, C.A., [1993,eng] 50-825

- Technique for high time resolution snowpack dating. Braaten, D.A., [1995,eng] 50-776
- Temporal redistribution of subalpine meadow trees. Rochefort, R.M., et al. [1996,eng] 50-4336
- Tree establishment in subalpine meadows. Woodward, A., et al. [1995,eng] 50-3322
- Use of fractal parameters to detect active layer heat transfer. Hinkel, K.M., et al. [1995,eng] 50-1138
- Volcanic stratospheric loading derived from Greenland ice core measurements. Zielinski, G.A., [1995,eng] 50-1331
- Water pressure and basal sliding on Storglaciären, northern Sweden. Jansson, P., [1995,eng] 50-446
- Permafrost**
- Active layer of perennally frozen ground as a natural self-regulating system. Krivoshekov, V.S., [1996,rus] 50-6395
- Blasting frozen iron ore at Knob Lake. Lang, L.C., [1966,eng] 50-5805
- Chain dredges for working flooded placer deposits. Knyshenko, N.S., [1992,rus] 50-806
- Characteristics of bituminoids of dispersed organic matter in permafrost and sub-cryogenic deposits. Tsarev, V.P., et al. [1989,rus] 50-2258
- Characteristics of working in permafrost in Transbaikalia. Kozlov, V.A., et al. [1993,rus] 50-111
- Climatic determination of the permafrost active layer in the Hornsund region, SW Spitsbergen. Migah, K., [1989,pol] 50-2898
- Composite report on drilling and blasting of permafrost at Ferriman Mine. Lang, L.C., [1964,eng] 50-5762
- Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996,rus] 50-6382
- Danger of pollution of arable soils in Russia by pesticides. Bogdanova, M.D., et al. [1995,rus] 50-3973
- Deformation properties of saline frozen rocks. Brushkov, A.V., [1996,rus] 50-6829
- Differentiation of the composition and properties due to podzolization on the Baikal-Patom plateau. Kuz'min, V.A., [1995,eng] 50-3871
- Electric soundings on polar landforms of the Northern Foothills. Guglielmin, M., et al. [1995,eng] 50-4391
- Environment and research in Greenland and Jameson Land. Di Cesare, F., et al. [1994,ita] 50-2819
- Filtration permeability of permafrost. Olovin, B.A., [1993,rus] 50-89
- Frozen ground. [1995,eng] 50-2445
- Frozen ground. [1996,eng] 50-5661
- Geocryological bases for failure mechanics of permafrost during construction development in arctic regions. Rastegayev, I.K., [1990,rus] 50-1661
- Geocryological studies in arctic regions. Vol. 1: Planetary papers. Geokriologicheskie issledovaniya v arkticheskikh raionakh; mezhduнародnyy simpozium. SSSR, IAmburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, Avgust 1989). [1990,rus] 50-1659
- Geocryological studies in arctic regions. Vol. 2: Modern arctic cryolithozone structure. Geokriologicheskie issledovaniya v arkticheskikh raionakh; mezhduнародnyy simpozium. SSSR, IAmburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, Avgust 1989). [1990,rus] 50-1621
- Geological specifics in the natural dynamics of the subarctic cryolithozone. Oberman, N.G., [1996,rus] 50-6850
- Geophysical studies of the Antarctic Peninsula. Fournier, H.G., [1994,eng] 50-1322
- Glacial geology: how ice shapes the land. Erickson, J., [1996,eng] 50-3555
- Ground temperature and frost heave near Showa Station. Sawagaki, T., [1993,eng] 50-3696
- II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973. [1973,rus] 50-5139
- Impact fracturing of frozen ground and rocks. Fedulov, A.I., et al. [1996,eng] 50-4740
- Improved mining methods in permafrost regions. Tsygankov, A.V., [1992,rus] 50-816
- Intrapermafrost gas hydrates, Mackenzie Delta. Dallimore, S.R., et al. [1995,eng] 50-560
- Landscape evolution in Antarctica. Campbell, I.B., et al. [1988,eng] 50-6526
- Method for underground gasification of coal. Shiels, V.I., [1992,rus] 50-1943
- Migration of chemical elements and ions in the seasonal thaw layer and upper layer of perennally frozen rocks. Leibman, M.O., et al. [1996,rus] 50-6848
- Naturalist's guide to the Arctic. Pielou, E.C., [1994,eng] 50-3804
- New permafrost blasting method developed at Asbestos Hill. Lang, L.C., [1976,eng] 50-5749
- Newsletter, No.1, May 1995. International Permafrost Association, [1995,eng] 50-5147
- Newsletter, No.2, Dec. 1986. International Permafrost Association, [1986,eng] 50-5148
- Newsletter, No.3, Dec. 1987. International Permafrost Association, [1987,eng] 50-5149
- Newsletter, No.4, Jan. 1988. International Permafrost Association, [1988,eng] 50-5150
- Newsletter, No.5, Apr. 1989. International Permafrost Association, [1989,eng] 50-5151

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- Optimal parameters of the technology for mining gypsum in the Olekminsk mine. Kokovin, V.A., et al. [1992.rus] 50-809
- Perennially frozen rock as a site for burying industrial wastes. Borisov, V.N., et al. [1996.rus] 50-6824
- Possible use of the oxygen isotope method to study ground ice and permafrost. Vaikmaie, R.A., [1990.rus] 50-1629
- Preliminary results of ground ice studies in the Herschel Island area, Yukon coastal plain. Pollard, W.H., [1990.eng] 50-1622
- Problems of borehole-blasting excavation in open pit mining. Zarovniaev, B.N., [1992.rus] 50-801
- Proceedings of the First Conference of Russian Geocryologists, June 3-5, 1996, Moscow, Vol.1. Konferentsia geokriologov Rossi, 1st, Moscow State University, June 3-5, 1996, [1996.rus] 50-6349
- Proceedings of the First Conference of Russian Geocryologists, June 3-5, 1996, Moscow, Vol.2. Konferentsia geokriologov Rossi, 1st, Moscow State University, June 3-5, 1996, [1996.rus] 50-6808
- Processes in the polar cap and magnetosphere in the presence of northern permafrost. Troshichev, O.A., [1991.rus] 50-1634
- Prospects for using geochemical methods in forecasting and evaluating technogenic talik zones. Tregubov, O.D., [1996.rus] 50-6855
- Regularities in the interaction of cryolithozone and gas or hydrate beds. Melnikov, V.P., et al. [1995.rus] 50-4116
- Salted drilling mud helps prevent casing collapse in permafrost. Kutsov, I.M., [1995.eng] 50-142
- Slope engineering of benches using low density explosives in interstitial contours. Shebarshov, A.A., et al. [1992.rus] 50-799
- Swedish contribution to Permafrost Association permafrost lexicon. Åkerman, H.J., et al. [1993.eng] 50-4793
- Time series in geocryology. Melnikov, V.P., et al. [1992.rus] 50-134
- Tritium analysis of ground ice: results and prospects. Chizhov, A.B., et al. [1996.rus] 50-6385
- See [also]: Continuous permafrost; Discontinuous permafrost; Subsea permafrost
- Permafrost bases**
- Calculating the reliability of a pipeline base, constructed on surface foundations. Maksimenko, S., et al. [1989.rus] 50-2250
- Conception for the rehabilitation of transportation infrastructures in northern regions. Ladanyi, B., [1994.fre] 50-4946
- Determining the bearing strength of frozen foundations with variable temperature. Konovalov, A.A., [1989.rus] 50-2253
- Developing methods for forecasting seismic effects under cryolithozone conditions. Dzburik, V.I., et al. [1996.rus] 50-6834
- Drilling smaller surface holes results in substantial cost savings. Krawietz, T.E., et al. [1991.eng] 50-1739
- Effect of climate warming on the Qinghai-Tibet Highway, China. Tong, C.J., et al. [1996.eng] 50-3830
- Embankment. Palkin, I.U.S., [1992.rus] 50-1914
- Estimation of reliability of permafrost beds. Gerasimov, A.S., [1995.eng] 50-344
- Geocryological bases for failure mechanics of permafrost during construction development in arctic regions. Rastegaev, I.K., [1990.rus] 50-1661
- Geocryological studies in arctic regions, Vol. 4. Geokriologicheskie issledovaniia v arkticheskikh raionakh: mezhdunarodnyi simpozium, SSSR, Iamburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium, USSR, Yamburg, August 1989). [1990.rus] 50-2247
- Ground probing radar investigation of permafrost in northern Quebec. Pilon, J.A., et al. [1992.eng] 50-65
- High-temperature permafrost as building foundation. Salnikov, P.I., [1993.rus] 50-109
- Hydraulic fill ash storage design for the permafrost zone. Koritova, I.V., et al. [1995.eng] 50-1838
- II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973, [1973.rus] 50-5139
- Improved structure and construction engineering of bases and foundations on permafrost. Leikam, A.B., et al. [1989.rus] 50-2255
- Improving foundations in permafrost (in the example of the Noril'sk industrial region). Rastegaev, I.K., et al. [1989.rus] 50-2302
- Permafrost foundation creep prediction from cone penetration tests. Ladanyi, B., et al. [1995.eng] 50-1825
- Permafrost, the active layer, and changing climate. Lachenbruch, A.H., [1994.eng] 50-5930
- Piles and pile foundations under conditions of Siberia. Solov'ev, I.U.I., ed. [1994.rus] 50-5141
- Study of deformation properties of freezing and thawing soils for cold weather construction. Ganeles, L.B., et al. [1989.rus] 50-2252
- Supporting permafrost bases for tower pile-drivers of vertical mine shafts while in operation. Izakson, V.I.U., et al. [1989.rus] 50-2251
- Winter-time convection in open-graded embankments. Goering, D.J., et al. [1996.eng] 50-3827
- Permafrost beneath buildings**
- See [also]: Permafrost beneath structures
- Permafrost beneath oceans**
- See [also]: Subsea permafrost
- Permafrost beneath rivers**
- Impermeable and permeable zones in permafrost. Olovin, B.A., [1996.eng] 50-6486
- Unfrozen water content and grain size of Mackenzie Delta core samples. Patterson, D.E., [1994.eng] 50-400
- Permafrost beneath roads**
- Air convection embankments for roadway construction in permafrost zones. Goering, D.J., [1996.eng] 50-6107
- Asphalt pavements in permafrost on the Qinghai-Xizang Highway. Li, N.Y., et al. [1996.eng] 50-6178
- Bituminous surface treatment (BST) of northern highways. MacLeod, D.R., et al. [1996.eng] 50-6184
- Cold regions infrastructure: an international imperative for the 21st century. International Conference on Cold Regions Engineering, 8th, Fairbanks, AK, Aug. 12-16, 1996, [1996.eng] 50-6106
- Critical height of asphalt-paved highway embankments in permafrost. Zhu, L.N., et al. [1989.chi] 50-1393
- Critical height of road embankments in permafrost. An, W.D., et al. [1989.chi] 50-1375
- Environmental-induced longitudinal cracking in cold regions pavements. Scher, R.L., [1996.eng] 50-6181
- Forecasting of deformation of asphalt paved frozen roadbed of the Qinghai-Xizang Highway. Wu, Z.W., et al. [1989.chi] 50-1392
- Hydrogeology and engineering geology of permafrost zones. Yang, R.T., et al. [1986.chi] 50-1169
- Long-term evaluations of insulated roads and airfields in Alaska. Esch, D.C., [1995.eng] 50-1156
- Permafrost along the highway in the Kunlun Mountain Pass of Qinghai Province. Wang, S.L., et al. [1989.chi] 50-1342
- Permafrost along the Xining-Zhangye Highway. Wang, S.L., et al. [1995.chi] 50-5628
- Railway on permafrost in Siberia. Gravesen, H., et al. [1995.eng] 50-2960
- Road and airfield design for permafrost conditions. Esch, D.C., [1996.eng] 50-6190
- Shakwak Highway Project—construction challenges. Walsh, R., et al. [1996.eng] 50-6160
- Sliding of the slope of railway embankment in permafrost region and its treatment. Wang, B., [1989.chi] 50-1395
- Strengthening railroad roadbed bases constructed on icy permafrost soils. Kondrat'ev, V.G., [1996.eng] 50-6164
- Surface modifications to reduce thaw degradation of permafrost. Zarling, J.P., et al. [1996.eng] 50-6111
- Permafrost beneath structures**
- Bare poles: building design for high latitudes. Strub, H., [1996.eng] 50-4963
- Buildings with short piles and ventilated foundations in permafrost. Zhu, L.N., et al. [1995.chi] 50-5625
- Calculating the reliability of a pipeline base, constructed on surface foundations. Maksimenko, S., et al. [1989.rus] 50-2250
- Church building foundation retrofit on Saint Lawrence I. Crowther, G.S., [1996.eng] 50-6130
- Cold regions infrastructure: an international imperative for the 21st century. International Conference on Cold Regions Engineering, 8th, Fairbanks, AK, Aug. 12-16, 1996, [1996.eng] 50-6106
- Construction activities inside of air structures protected from the arctic environment. Mangus, A.R., [1991.eng] 50-1730
- Construction effects on soil temperature in Noril'sk. Kadkina, E.L., [1990.rus] 50-1617
- Corrosion of pipeline steels in permafrost. White, W.E., et al. [1996.eng] 50-5954
- Dam construction in northern environment: a numerical study. Shen, M., et al. [1996.eng] 50-6168
- Driven pile capacities in warm permafrost in Komi Republic, Russia. Thompson, S.R., et al. [1996.eng] 50-6128
- Effects of global warming on building construction on permafrost. Khristalev, L.N., [1996.eng] 50-5861
- Estimation of reliability of permafrost beds. Gerasimov, A.S., [1995.eng] 50-344
- Forecasting seismic effects under cryolithozone conditions. Dzburik, V.I., [1995.rus] 50-2506
- Forecasting settlement during the thawing of frozen ground in Ural. Evtushenko, S.I., et al. [1985.rus] 50-246
- Foundation heave induced by a subgrade cooling system over permafrost. Scher, R.L., [1991.eng] 50-1737
- Foundations for permafrost and other problem soils. Vangool, W.J., [1996.eng] 50-6132
- Frozen soil-structure interfaces. Ladanyi, B., [1995.eng] 50-3806
- Geocryological bases for failure mechanics of permafrost during construction development in arctic regions. Rastegaev, I.K., [1990.rus] 50-1661
- Geocryological studies in arctic regions, Vol. 4. Geokriologicheskie issledovaniia v arkticheskikh raionakh: mezhdunarodnyi simpozium, SSSR, Iamburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium, USSR, Yamburg, August 1989). [1990.rus] 50-2247
- Geotechnical design of the Baydaratskaya Bay pipeline crossing. Oswell, J.M., et al. [1995.eng] 50-177
- Ground penetrating radar monitoring of permafrost along the Norman Wells pipeline. Moorman, B.J., et al. [1994.eng] 50-5590
- Heat interactions between block-unit structures in permafrost soils. Gorbacheva, V.M., et al. [1990.rus] 50-1615
- High-temperature permafrost as building foundation. Salnikov, P.I., [1993.rus] 50-109
- Hydrogeology and engineering geology of permafrost zones. Yang, R.T., et al. [1986.chi] 50-1169
- II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973, [1973.rus] 50-5139
- Improved structure and construction engineering of bases and foundations on permafrost. Leikam, A.B., et al. [1989.rus] 50-2255
- Improving foundations in permafrost (in the example of the Noril'sk industrial region). Rastegaev, I.K., et al. [1989.rus] 50-2302
- Laying of oil industry pipelines in permafrost conditions in Western Siberia. Karavaev, S.S., et al. [1989.rus] 50-2249
- Living on ice: problems of urban development in Canada's north. French, H.M., [1994.eng] 50-6099
- Long-term pile load testing system performance in saline and ice-rich permafrost. Biggar, K.W., et al. [1996.eng] 50-6427
- Model pile tests in saline soils. Christopherson, A., et al. [1991.eng] 50-1719
- Oil and gas development challenges in the Russian Arctic. Ruzhanskii, V.E., et al. [1996.eng] 50-6432
- OTH-backscatter power plant foundation design for warm, ice-rich permafrost soils. Foster, M.L., et al. [1991.eng] 50-1735
- Performance of a passively refrigerated gravel pad foundation in Fairbanks. Adamczak, S., Jr., [1996.eng] 50-6108
- Performance of a Triodetic foundation near Fairbanks, Alaska. Kinney, T.C., [1996.eng] 50-6131
- Permafrost and climate change: geotechnical implications. Williams, P.J., [1995.eng] 50-5238
- Pile bearing capacity in frozen soils. Mirembert, I.U.S., [1996.eng] 50-6054
- Prediction of permafrost temperature in bed of structure from field data. Khristalev, L.N., et al. [1995.eng] 50-345
- Protection of arctic bridge crossing by refrigerated foundation. Christopherson, A.B., et al. [1991.eng] 50-1734
- Railroad tracks on ice-rich permafrost. Kondrat'ev, V.G., et al. [1992.rus] 50-1925
- Reinforcing the permafrost foundation of the Gornegrat Observatory. Voeder Mühl, D., et al. [1995.ger] 50-4174
- Steel pipe pile foundations for school building in saline permafrost. Merrill, K.S., et al. [1996.eng] 50-6127
- Thermopiles. Garaniin, L.I., [1992.rus] 50-1905
- Thermosiphon-based designs and applications for foundations built on permafrost. Zarling, J.P., et al. [1991.eng] 50-1733
- Upheaval buckling of a pipeline in an arctic environment. Quimby, T.B., et al. [1996.eng] 50-6125
- West Dock Causeway bridge piers. Christopherson, A.B., et al. [1996.eng] 50-6133
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- Asphalt pavements in permafrost on the Qinghai-Xizang Highway. Li, N.Y., et al. [1996.eng] 50-6178
- Coal mine spoil instability in discontinuous permafrost. Hardy, A.J., et al. [1996.eng] 50-6166
- Environmental-induced longitudinal cracking in cold regions pavements. Scher, R.L., [1996.eng] 50-6181
- Foundations for permafrost and other problem soils. Vangool, W.J., [1996.eng] 50-6132
- Oil and gas development challenges in the Russian Arctic. Ruzhanskii, V.E., et al. [1996.eng] 50-6432
- Performance of a Triodetic foundation near Fairbanks, Alaska. Kinney, T.C., [1996.eng] 50-6131
- Road and airfield design for permafrost conditions. Esch, D.C., [1996.eng] 50-6190
- Urea foam covers for remediation of degraded permafrost. Feklistov, V.N., et al. [1996.eng] 50-6476
- See [also]: Permafrost preservation
- Permafrost dating**
- Geocryology research in China in the last decade: review and prospect. Cheng, G.D., [1995.eng] 50-4511
- Organic compounds in a permafrost sediment core from Siberia. Matsumoto, G.I., et al. [1995.eng] 50-3844
- Permafrost in glaciofluvial sediments of the last glaciation. Habbe, K.A., [1993.eng] 50-1678
- Permafrost depth**
- Climate change impacts on glaciers and permafrost. Haeblerli, W., [1995.eng] 50-1012
- Conditions for the formation of taliks in mountain regions and foothills. Zhelezniak, M.N., et al. [1996.rus] 50-6411
- Cone penetration test (CPT) in cold regions engineering. Fortier, R., et al. [1996.eng] 50-6145
- Engineering-geocryological environment and changes in natural conditions in Punginsk. Shamanova, I.I., et al. [1985.rus] 50-247
- Method of preparing a geocryological foundation for hydrogeological mapping. Lomovtseva, N.S., [1996.rus] 50-6365
- Modelling of permafrost depth in France during the last 120,000 years. Lebret, P., et al. [1996.fre] 50-4570
- Permafrost, the active layer, and changing climate. Lachenbruch, A.H., [1994.eng] 50-5930
- Slope stability problems in open pit coal mines in permafrost regions. Vakili, J., [1991.eng] 50-1749
- Soil degradation in the steppes of northern Mongolia. Opp, C., et al. [1993.eng] 50-1680
- What makes permafrost permanent? Schoonmaker, D., [1993.eng] 50-3147
- Permafrost distribution**
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- Canadian permafrost distribution during the Holocene. Zoltai, S.C., [1995,eng] 50-1453
- Changes in permafrost conditions. Vaikmäe, R., et al., [1995,eng] 50-506
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- Conditions for the formation of taliks in mountain regions and foothills. Zhelezniak, M.N., et al., [1996,rus] 50-6411
- Cryospheric observing systems and data management. Barry, R.G., [1994,eng] 50-3415
- Degradation of the cryolithosphere in Russia under global climatic warming. Ershov, E.D., et al., [1996,rus] 50-6840
- Effects of climatic change on permafrost in the arid and semi-arid regions of China. Xie, Y.Y., [1995,eng] 50-3391
- Ensemble of periglacial landforms in three dimensions. Karte, J., [1990,ger] 50-1792
- Establishment and application of DTM of the Qinghai-Xizang Plateau. Li, X., et al., [1995,chi] 50-3994
- European soil thermal contraction related to ice sheet dynamics. van Vliet-Lanoë, B., [1996,fre] 50-6340
- Frozen ground landscapes of Yakutia: explanatory notes to a map. Fedorov, A.N., et al., [1989,rus] 50-5005
- Geocryological conditions of the eastern Bambiuka basin. Znamenskii, E.N., [1983,rus] 50-316
- Geocryology research in China in the last decade: review and prospect. Cheng, G.D., [1995,eng] 50-4511
- Geomorphological altitude zones in the Qinghai-Xizang Plateau. Hövermann, J., et al., [1994,ger] 50-4775
- Glaciological research in Hidden Valley, Mukut Himal in 1994. Fujii, Y., et al., [1996,eng] 50-5510
- Hybrid model for predicting permafrost occurrence and thickness. Wright, J.F., [1995,eng] 50-5669
- Hydrogeology and engineering geology of permafrost zones. Yang, R.T., et al., [1986,chi] 50-1169
- Impermeable and permeable zones in permafrost. Olovin, B.A., [1996,eng] 50-6486
- Living on ice: problems of urban development in Canada's north. French, H.M., [1994,eng] 50-6099
- Mode of degradation of Pleistocene permafrost in West Siberia. Astakhov, V.I., [1995,eng] 50-507
- Nordic permafrost—a bibliography. Akerman, H.J., [1993,eng] 50-5304
- Permafrost along the highway in the Kunlun Mountain Pass of Qinghai Province. Wang, S.L., et al., [1989,chi] 50-1342
- Permafrost along the Xining-Zhangye Highway. Wang, S.L., et al., [1995,chi] 50-5628
- Permafrost and glaciers of Upper Engadin, Switzerland. Hölzle, M., [1994,ger] 50-2771
- Permafrost and global warming: strategies of adaptation. Anisimov, O.A., et al., [1996,eng] 50-5057
- Permafrost and thermal interfaces from Norman Wells pipeline ditchwall logs. Nixon, J.F., et al., [1991,eng] 50-1746
- Permafrost change in a peatland in northern Quebec, 1983-1993. Laberge, M.J., et al., [1995,eng] 50-77
- Permafrost degeneration in the east of Tibetan Plateau. Zhu, L.N., et al., [1995,chi] 50-5618
- Permafrost degradation in the Greater Khingan Range. Yuan, H.Y., [1989,chi] 50-1349
- Permafrost distribution and climate change. Nelson, F.E., [1990,eng] 50-1665
- Permafrost distribution in the northern hemisphere under scenarios of climatic change. Anisimov, O.A., et al., [1996,eng] 50-6619
- Permafrost distribution in the southern circumpolar region. Bockheim, J.G., [1995,eng] 50-666
- Permafrost hydrology in the Greater Khingan Range. Lin, F.T., et al., [1989,chi] 50-1344
- Permafrost in China: past and present. Qiu, G.Q., et al., [1995,eng] 50-664
- Permafrost in the coal mining area of the Greater Khingan Range. Guo, D.X., et al., [1989,chi] 50-1341
- Permafrost on the Qinghai-Xizang Plateau. Li, S.D., et al., [1992,chi] 50-1490
- Permafrost on the Tibet Plateau, China. Wang, B.L., et al., [1995,eng] 50-1856
- Permafrost variation in Hokkaido since the last glacial maximum. Nakayama, T., [1995,jpn] 50-986
- Permafrost, the active layer, and changing climate. Lachenbruch, A.H., [1994,eng] 50-5930
- Pine tree distribution in the permafrost zone of the Greater Khingan Range. Lu, G.W., [1989,chi] 50-1346
- Plant ecology of the Greater Khingan Range permafrost zone. Yang, K.C., [1989,chi] 50-1347
- Predicting the location of permafrost in central Yukon Territory. Williams, D.J., [1995,eng] 50-5668
- Proceedings. Chinese National Conference on Permafrost, 3rd, Harbin, China, Aug. 19-24, 1986, [1989,chi] 50-1340
- Relationship between surface and subsurface glaciation on the East European Plain in the Dnepr cold epoch. Nechaev, V.P., [1996,rus] 50-6357
- Seasonal and annual dynamics of frozen ground in the central highland of Iceland. Thórhallsdóttir, T.E., [1996,eng] 50-5499
- Soil degradation in the steppes of northern Mongolia. Opp, C., et al., [1993,eng] 50-1680
- Soils in frozen regions of the biosphere, their function and use. Makeyev, O.V., [1990,rus] 50-21
- Some contributions to the study of landforms and geomorphic processes. Barsch, D., et al., [1993,eng] 50-1671

- Submarine cryolithosphere of Russian Arctic off-shore: problems of hydrocarbon recovery. Kul'pin, L.G., et al., [1995,eng] 50-2961
- Synopsis of Alaska wetland vegetation. Batten, A.R., [1987,eng] 50-3912
- Thermal effects of the ocean on permafrost. Lachenbruch, A.H., [1957,eng] 50-3943
- Thickness and structural characteristics of the cryolithosphere in northwest Siberia. Agalakov, S.E., [1996,rus] 50-6358
- Underground water of permafrost area in Da Hinggan Ling. Zheng, Q.P., [1989,chi] 50-1343

Permafrost forecasting

- Climatic warming and the degradation of warm permafrost. Lunardini, V.J., [1996,eng] 50-6482
- Forecasting the state of permafrost during climatic warming. Cherniad'ev, V.P., et al., [1993,rus] 50-4112
- Hybrid model for predicting permafrost occurrence and thickness. Wright, J.F., [1995,eng] 50-5669
- Permafrost formation and aggradation in a 23-m high homogeneous dyke: a case study. Konrad, J.M., et al., [1996,eng] 50-6165
- Permafrost variations at Mt Fenghuo in the Hoh Xil Mountains of Qinghai. Zhang, T.J., et al., [1989,chi] 50-1348
- Predicting the location of permafrost in central Yukon Territory. Williams, D.J., [1995,eng] 50-5668
- Strength sensitivity index for assessing climate warming effects on permafrost. Ladanyi, B., [1996,eng] 50-6110

Permafrost formation

See (also): Permafrost origin

Permafrost heat balance

- Climatic warming and the degradation of warm permafrost. Lunardini, V.J., [1996,eng] 50-6482
- Depth hoar influence on permafrost thermal regime. Zhang, T., et al., [1996,eng] 50-6585
- Effects of hydrology on the thermal conditions of the active layer. Woo, M.K., et al., [1994,eng] 50-5702
- Energy balance and hydrological processes in an arctic watershed. Hinzman, L.D., et al., [1996,eng] 50-4844
- Hybrid model for predicting permafrost occurrence and thickness. Wright, J.F., [1995,eng] 50-5669
- Permafrost and climate change: geotechnical implications. Williams, P.J., [1995,eng] 50-5238
- Permafrost variation in Hokkaido since the last glacial maximum. Nakayama, T., [1995,jpn] 50-986
- Permafrost variations at Mt Fenghuo in the Hoh Xil Mountains of Qinghai. Zhang, T.J., et al., [1989,chi] 50-1348
- Permafrost, the active layer, and changing climate. Lachenbruch, A.H., [1994,eng] 50-5930
- Prediction of permafrost temperature in bed of structure from field data. Khristalev, L.N., et al., [1995,eng] 50-345
- Recent climatic trend and thermal response of permafrost in Saluit, northern Quebec, Canada. Wang, B.L., et al., [1996,eng] 50-6699
- Rock breakdown during spring thaw in Spitsbergen. Ødegård, R.S., et al., [1995,eng] 50-4831
- Strength sensitivity index for assessing climate warming effects on permafrost. Ladanyi, B., [1996,eng] 50-6110
- Thermal effects of the ocean on permafrost. Lachenbruch, A.H., [1957,eng] 50-3943
- Use of fractal parameters to detect active layer heat transfer. Hinkel, K.M., et al., [1995,eng] 50-1138

Permafrost heat transfer

- Active layer thermal diffusivity from finite difference mathematical methods. Zhang, T., et al., [1995,eng] 50-1141
- Air convection embankments for roadway construction in permafrost zones. Goering, D.J., [1996,eng] 50-6107
- Climatic warming and the degradation of warm permafrost. Lunardini, V.J., [1996,eng] 50-6482
- Oilwell casing downdrag from subsidence at Prudhoe Bay. Nair, K., et al., [1971,eng] 50-4196
- OTH-backscatter power plant foundation design for warm, ice-rich permafrost soils. Foster, M.L., et al., [1991,eng] 50-1735
- Performance of a passively refrigerated gravel pad foundation in Fairbanks. Adamczak, S., Jr., [1996,eng] 50-6108
- Permafrost and the environment in Alaska. Lotspeich, F.B., [1973,eng] 50-854
- Permafrost, the active layer, and changing climate. Lachenbruch, A.H., [1994,eng] 50-5930
- Prediction of permafrost temperature in bed of structure from field data. Khristalev, L.N., et al., [1995,eng] 50-345
- Railway on permafrost in Siberia. Gravesen, H., et al., [1995,eng] 50-2960
- Thermal effects of the ocean on permafrost. Lachenbruch, A.H., [1957,eng] 50-3943
- Using heat exchange models for geocryological temperature monitoring. Izakson, V.I.U., et al., [1992,rus] 50-820
- Winter-time convection in open-graded embankments. Goering, D.J., et al., [1996,eng] 50-3827

Permafrost hydrology

- Active layer changes following forest tundra fire. Mackay, J.R., [1995,eng] 50-2807
- Basic types of underground water in permafrost area on the Qinghai-Xizang Plateau. Guo, P.F., [1989,chi] 50-1345
- Demonstrating brine water wells and toilets for Deering, Alaska. Lundell, R.H., [1996,eng] 50-6153
- Discharge and fluvial sediment transport in a semi-arid Andean catchment. Barsch, D., et al., [1994,eng] 50-1544
- Dynamics of underground waters in Calypsostranda region in 1990 (Western Spitsbergen). Bartoszewski, S., [1993,eng] 50-2194

Permafrost mass transfer

- Effects of hydrology on the thermal conditions of the active layer. Woo, M.K., et al., [1994,eng] 50-5702
- Energy balance and hydrological processes in an arctic watershed. Hinzman, L.D., et al., [1996,eng] 50-4844
- Geocryology research in China in the last decade: review and prospect. Cheng, G.D., [1995,eng] 50-4511
- Hydrogeology and engineering geology of permafrost zones. Yang, R.T., et al., [1986,chi] 50-1169
- II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973, [1973,rus] 50-5139
- Impact of subglacial groundwater flow on moraine formation. Boulton, G.S., et al., [1995,eng] 50-2129
- Impermeable and permeable zones in permafrost. Olovin, B.A., [1996,eng] 50-6486
- Isotope techniques in permafrost investigations. Michel, F.A., [1989,eng] 50-2261
- Living on ice: problems of urban development in Canada's north. French, H.M., [1994,eng] 50-6099
- Modeling of contaminant transport in groundwater in areas of discontinuous permafrost. Johnson, R., et al., [1996,eng] 50-6114
- Overview of environmental and hydrogeologic conditions at Bethel, Alaska. Dorava, J.M., et al., [1995,eng] 50-2484
- Overview of environmental and hydrogeologic conditions at Fort Yukon, Alaska. Nakanishi, A.S., et al., [1994,eng] 50-2482
- Overview of environmental and hydrogeologic conditions at Tanana, Alaska. Nakanishi, A.S., et al., [1994,eng] 50-2483
- Periodic water saturation of ice wedges: results of an oxygen-18 and deuterium study. Lauriol, B., et al., [1995,fre] 50-667
- Permafrost and the environment in Alaska. Lotspeich, F.B., [1973,eng] 50-854
- Permafrost hydrology in the Greater Khingan Range. Lin, F.T., et al., [1989,chi] 50-1344
- Permafrost influence on glacier sediment deformation. Elzeinmüller, B., et al., [1996,eng] 50-6240
- Permafrost, gelifluction and fluvial sediment transfer in the Austrian Alps. Veit, H., et al., [1993,eng] 50-1676
- Requirements for heap leaching under permafrost conditions. Putsyn, A.B., [1995,eng] 50-418
- Rock mass response to subzero temperature fluctuations. Chislov, A.I., [1991,eng] 50-1745
- Russian-German Taymyr Expedition, 1994. Siegert, C., ed., et al., [1995,eng] 50-1549
- Seasonal solute movement in continuous permafrost. Boike, J., et al., [1995,eng] 50-2093
- Subpermafrost groundwater, western Svalbard. Haldorsen, S., et al., [1994,eng] 50-5697
- Suprapermafrost groundwater seepage in gravelly terrain. Resolute, NWT, Canada. Woo, M.K., et al., [1995,eng] 50-668
- Synopsis of Alaska wetland vegetation. Batten, A.R., [1987,eng] 50-3912
- Underground water of permafrost area in Da Hinggan Ling. Zheng, Q.P., [1989,chi] 50-1343
- Use of SAR satellite imagery to measure active layer moisture contents in arctic Alaska. Kane, D.L., et al., [1994,eng] 50-5695
- Wetlands and ground water in the United States. Stone, A.W., et al., [1994,eng] 50-971

Permafrost indicators

- Application of air photo to the analysis of ground ice. Liang, F.X., et al., [1989,chi] 50-1356
- Boundary of permafrost region in east China during last glacial epoch. Xu, S.Y., et al., [1989,chi] 50-1357
- Comments on paper by González Suárez et al. Frochoso, M., et al., [1995,eng] 50-463
- Ensemble of periglacial landforms in three dimensions. Karte, J., [1990,ger] 50-1792
- European soil thermal contraction related to ice sheet dynamics. van Vliet-Lanoë, B., [1996,fre] 50-6340
- Finite element analysis of the creep of debris containing thin ice bodies. Azizi, F., et al., [1995,eng] 50-183
- Late Pleistocene deposits at Block Fen, Cambridgeshire, England. West, R.G., et al., [1995,eng] 50-6214
- Paleoecological significance of Quaternary permafrost relics in arctic Canada. Murton, J.B., [1996,eng] 50-3645
- Periglacial landforms and sediments in Argentina. Trombotto, D., [1991,ger] 50-1684
- Permafrost change in a peatland in northern Quebec, 1983-1993. Laberge, M.J., et al., [1995,eng] 50-77
- Permafrost degeneration in the east of Tibetan Plateau. Zhu, L.N., et al., [1995,chi] 50-5618
- Permafrost formation and aggradation in a 23-m high homogeneous dyke: a case study. Konrad, J.M., et al., [1996,eng] 50-6165
- Permafrost in glacioclastic sediments of the last glaciation. Habbe, K.A., [1993,eng] 50-1678
- Permafrost variation in Hokkaido since the last glacial maximum. Nakayama, T., [1995,jpn] 50-986
- Pine tree distribution in the permafrost zone of the Greater Khingan Range. Lu, G.W., [1989,chi] 50-1346
- Pleistocene paleosol soil development in northwest Alaska. Höfe, C., et al., [1996,eng] 50-36517
- Predicting the location of permafrost in central Yukon Territory. Williams, D.J., [1995,eng] 50-5668

Permafrost mass transfer

- Cryogenic landslides on the Yamal Peninsula, Russia: preliminary observations. Leibman, M.O., [1996,eng] 50-6703
- Gelifluction in the alpine periglacial environment of the Tianshan Mountains, China. Liu, G.N., et al., [1996,eng] 50-6704

Permafrost origin

- Mountain permafrost and slope instability in the Italian Alps: the Val Pola landslide. Dramis, F., et al. [1995,eng] 50-669
- Permafrost influence on glacier sediment deformation. Ezzelmueller, B., et al. [1996,eng] 50-6240
- Sedimentary petrogenesis and its characteristics in the cryolithozone. Danilov, I.D., [1995,eng] 50-6074

Permafrost origin

- Arctic Ocean—a special natural cryogenic system. Danilov, I.D., [1996,eng] 50-6374
- Development of cryogenic processes in the Baykal region. Leshchikov, F.N., [1996,eng] 50-6397
- Ensemble of periglacial landforms in three dimensions. Karte, J., [1990,ger] 50-1792
- II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973, [1973,rus] 50-5139
- Model of frozen strata in the cryolithozone. Gravis, G.F., [1996,rus] 50-6373
- Organic compounds in a permafrost sediment core from Siberia. Matsumoto, G.I., et al. [1995,eng] 50-3844
- Paleogeographic conditions of continental syncryogenesis on Central Yamal. Bolikhovskaya, N.S., et al. [1996,rus] 50-6351
- Permafrost formation and aggradation in a 23-m high homogeneous dyke: a case study. Konrad, J.M., et al. [1996,eng] 50-6165
- Quaternary geology and cryogenic structure of Taymyr. Derevianin, A.I.U., et al. [1996,rus] 50-6375

Permafrost physics

- Active layer moisture migration in Alaskan soils. Outcalt, S.I., et al. [1996,eng] 50-4631
- Adverse telluric effects on northern pipelines. Seager, W.H., [1991,eng] 50-1761
- Behavior of crystals in kimberlite and ice under the action of shock waves. Beloborodov, V.N., et al. [1995,eng] 50-1206
- Characteristics of the gas content of permafrost strata in the Bovanenok gas condensate field. Chuvilin, E.M., et al. [1996,rus] 50-6386
- Conception for the rehabilitation of transportation infrastructures in northern regions. Ladanyi, B., [1994,fre] 50-4946
- Effect of saline frozen ground on radio wave propagation in arctic shore regions. Frolov, A.D., et al. [1995,eng] 50-202
- Electrical freezing potentials measured in a pingo growing in the western Canadian Arctic. Parameswaran, V.R., et al. [1996,eng] 50-5471
- Electromagnetic methods in permafrost research. Krylov, S.S., et al. [1995,rus] 50-2511
- Geochemical fields in the cryolithozone. Makarov, V.N., [1996,rus] 50-6381
- Geophysical and laboratory methods for studying the mechanical characteristics of permafrost. Mamzelev, A.P., [1996,rus] 50-6833
- Holocene development of a debris slope in subarctic Québec, Canada. Marion, J., et al. [1995,eng] 50-2857
- Hydraulic mining of permafrost placers by boreholes. Khurlev, A.S., [1991,eng] 50-1716
- Hydraulic structures in permafrost. Gevirts, G.I.A., [1993,eng] 50-104
- Mechanical behavior of frozen earth materials under high pressure triaxial test conditions. Chamberlain, E.J., et al. [1970,eng] 50-3310
- Model pile tests in saline soils. Christopherson, A., et al. [1991,eng] 50-1719
- Modelling of permafrost depth in France during the last 120,000 years. Lebret, P., et al. [1996,eng] 50-4570
- Nordic permafrost—a bibliography. Akerman, H.J., [1993,eng] 50-5304
- Paleoecological significance of Quaternary permafrost relics in arctic Canada. Merton, J.B., [1996,eng] 50-3645
- Permafrost microbiology. Gilichinski, D.A., et al. [1996,rus] 50-6372
- Permafrost on the Tibet Plateau, China. Wang, B.L., et al. [1995,eng] 50-1856
- Results of joint Russian-Canadian geophysical studies of permafrost on the Yamal Peninsula. Burns, R.A., et al. [1995,rus] 50-2507
- Review of the geochemistry of methane in natural gas hydrate. Kvenvolden, K.A., [1995,eng] 50-6229
- What makes permafrost permanent? Schoonmaker, D., [1993,eng] 50-3147
- Winter-time convection in open-graded embankments. Goering, D.J., et al. [1996,eng] 50-3827
- World Oil's handbook of arctic well completions. Goodman, M.A., [1978,eng] 50-2057
- Permafrost preservation**
- Air convection embankments for roadway construction in permafrost zones. Goering, D.J., [1996,eng] 50-6107
- Another look at oil transportation in and from the arctic environment. Marsden, S.S., Jr., et al. [1991,eng] 50-1711
- Application of foam insulation for remediation of degraded permafrost. Feklistov, V.N., et al. [1996,eng] 50-5472
- Asphalt pavements in permafrost on the Qinghai-Xizang Highway. Li, N.Y., et al. [1996,eng] 50-6178
- Buildings with short piles and ventilated foundations in permafrost. Zhu, L.N., et al. [1995,chi] 50-5625
- Catline rehabilitation and restoration. Bolstad, R., [1971,eng] 50-3245
- Challenge of West Sak heavy oil: analysis of an innovative approach. Gondouin, M., et al. [1991,eng] 50-1713

- Church building foundation retrofit on Saint Lawrence I. Crowther, G.S., [1996,eng] 50-6130
- Coal mine spoil instability in discontinuous permafrost. Hardy, A.J., et al. [1996,eng] 50-6166
- Cold regions infrastructure: an international imperative for the 21st century. International Conference on Cold Regions Engineering, 8th, Fairbanks, AK, Aug. 12-16, 1996, [1996,eng] 50-6106
- Cold storage of agricultural products in artificial permafrost. Tsuchiya, F., et al. [1992,eng] 50-40
- Current thermal regime of permafrost in Alaska and the predicted global warming. Osterkamp, T.E., et al. [1990,eng] 50-1663
- Dam construction in northern environment: a numerical study. Shen, M., et al. [1996,eng] 50-6168
- Disposal of drilling wastes in permafrost, Prudhoe Bay, Alaska. Hansen, P., et al. [1996,eng] 50-6134
- Drilling wastes management for Alaska's North Slope. Fristoe, B.R., [1991,eng] 50-1723
- Effect of color and texture on the surface temperature of asphalt concrete pavements. Berg, R.L., [1985,eng] 50-4362
- Effects of fire in the taiga on the environment. Lotspeich, F.B., et al. [1971,eng] 50-3244
- Effects of global warming on building construction on permafrost. Khurastev, L.N., [1996,eng] 50-5861
- Energy flow to arctic tundra surface and experiences of induced disturbances. Rydén, B.E., [1993,eng] 50-2209
- Engineering-geocryology environment and changes in natural conditions in Punginsk. Shamanova, I.I., et al. [1985,rus] 50-247
- Environmental activity management and control exercised by pipelaying association. Shishov, V.N., [1991,eng] 50-1762
- Environmental-induced longitudinal cracking in cold regions pavements. Scher, R.L., [1996,eng] 50-6181
- Forecasting the state of permafrost during climatic warming. Cherniadev, V.P., et al. [1993,rus] 50-4112
- Geocryology research in China in the last decade: review and prospect. Cheng, G.D., [1995,eng] 50-4511
- Ground penetrating radar monitoring of permafrost along the Norman Wells pipeline. Moorman, B.J., et al. [1994,eng] 50-5590
- Migration of chemical elements and ions in the seasonal thaw layer and upper layer of perennially frozen rocks. Leibman, M.O., et al. [1996,rus] 50-6848
- Model of protecting the geological environment in the permafrost region. Kagan, A.A., [1995,eng] 50-343
- Oil and gas development challenges in the Russian Arctic. Ruzhanskii, V.E., et al. [1996,eng] 50-6432
- Oilwell casing downdrag from subsidence at Prudhoe Bay. Nair, K., et al. [1971,eng] 50-4196
- Parameterizing environmental assessments for oil and gas facility construction. Semenov, L.P., [1991,eng] 50-1765
- Performance of a passively refrigerated gravel pad foundation in Fairbanks. Adamczak, S., Jr., [1996,eng] 50-6108
- Permafrost and climate change: geotechnical implications. Williams, P.J., [1995,eng] 50-5238
- Permafrost and global warming: strategies of adaptation. Anisimov, O.A., et al. [1996,eng] 50-5057
- Permafrost and the environment in Alaska. Lotspeich, F.B., [1973,eng] 50-854
- Railway on permafrost in Siberia. Gravesen, H., et al. [1995,eng] 50-2960
- Reinforcing the permafrost foundation of the Gornegrat Observatory. Vonder Mühl, D., et al. [1995,ger] 50-4174
- Road and airfield design for permafrost conditions. Esch, D.C., [1996,eng] 50-6190
- Shakwak Highway Project—construction challenges. Walsh, R., et al. [1996,eng] 50-6160
- Soil freezing on the outside of a vertical two-phase closed thermosyphon. Gu, W.B., et al. [1996,eng] 50-6494
- Steel pipe pile foundations for school building in saline permafrost. Merrill, K.S., et al. [1996,eng] 50-6127
- Strengthening railroad roadbed bases constructed on icy permafrost soils. Kondrat'ev, V.G., [1996,eng] 50-6164
- Surface modifications to reduce thaw degradation of permafrost. Zarling, J.P., et al. [1996,eng] 50-6111
- Thermal recultivation of permafrost using a foam screen in the Arctic North. Feklistov, V.N., et al. [1990,rus] 50-1603
- Thermosiphon-based designs and applications for foundations built on permafrost. Zarling, J.P., et al. [1991,eng] 50-1733
- Upheaval buckling of a pipeline in an arctic environment. Quimby, T.B., et al. [1996,eng] 50-6125
- Urea foam covers for remediation of degraded permafrost. Feklistov, V.N., et al. [1996,eng] 50-6476
- Winter-time convection in open-graded embankments. Goering, D.J., et al. [1996,eng] 50-3827
- World Oil's handbook of arctic well completions. Goodman, M.A., [1978,eng] 50-2057
- See [also]: Permafrost control

Permafrost structure

- Active layer of perennially frozen ground as a natural self-regulating system. Krivoshechev, V.S., [1996,rus] 50-6395
- Applicability of Soviet arctic mining technology to northern America. Skudrzyk, F.J., [1991,eng] 50-1743
- Cone penetration test (CPT) in cold regions engineering. Fortier, R., et al. [1996,eng] 50-6145
- Cryogenic landfills on the Yamal Peninsula, Russia: preliminary observations. Leibman, M.O., [1996,eng] 50-6703
- Drilling and sampling of permafrost for site investigation purposes: a review. Riddle, C.H., et al. [1991,eng] 50-1747

Permafrost thermal properties

- Geocryology research in China in the last decade: review and prospect. Cheng, G.D., [1995,eng] 50-4511
- Glacial cirque formation in northern Scandinavia. Richardson, C., et al. [1996,eng] 50-6246
- Gravimetric investigation of permafrost on the Blockglaciers Murtel-Corvatsch (Oberengadin). Klingele, E., et al. [1993,ger] 50-4909
- Ground probing radar investigation of permafrost in northern Quebec. Pilon, J.A., et al. [1992,eng] 50-65
- Impermeable and permeable zones in permafrost. Olovin, B.A., [1996,eng] 50-6486
- Influence of local factors on solifluction rates. Spitsbergen, Svalbard. Repelewska-Pykalowa, J., et al. [1993,eng] 50-842
- Microbial life in permafrost: a historical review. Gilichinski, D.A., et al. [1996,eng] 50-6701
- Paleogeographic conditions of continental syncryogenesis on Central Yamal. Bolikhovskaya, N.S., et al. [1996,rus] 50-6351
- Paleogeographical studies of permafrost in the eastern Taymyr lowland. Siebert, C., et al. [1995,eng] 50-2092
- Permafrost and thermal interfaces from Norman Wells pipeline ditchwall logs. Nixon, J.F., et al. [1991,eng] 50-1746
- Permafrost mounds in Lapland and Spitsbergen. Meier, K.D., [1989,ger] 50-645
- Permafrost soil thawing after forest fires. Swanson, D.K., [1996,eng] 50-5497
- Thickness and structural characteristics of the cryolithozone in northwest Siberia. Agalakov, S.E., [1996,rus] 50-6358
- Permafrost surveys**
- Application of air photo to the analysis of ground ice. Liang, F.X., et al. [1989,chi] 50-1356
- Biennial report 1993-1994. Alaska. University. Geophysical Institute, [1995,eng] 50-2450
- Compilation of the map of seasonal frozen depth in Jilin Province at 1:2,000,000. Zhang, X., et al. [1989,chi] 50-1351
- Cone penetration test (CPT) in cold regions engineering. Fortier, R., et al. [1996,eng] 50-6145
- Contributions to polar geomorphology by the German Spitsbergen expeditions 1990-1992. Blümel, W.D., [1993,eng] 50-1672
- Drilling and sampling of permafrost for site investigation purposes: a review. Riddle, C.H., et al. [1991,eng] 50-1747
- Field guide to the Churchill region, Manitoba. Dredge, L.A., [1992,eng] 50-3910
- Geocryology research in China in the last decade: review and prospect. Cheng, G.D., [1995,eng] 50-4511
- Ground penetrating radar investigations of massive ground ice. Dallimore, S.R., et al. [1992,eng] 50-56
- Ground penetrating radar monitoring of permafrost along the Norman Wells pipeline. Moorman, B.J., et al. [1994,eng] 50-5590
- Ground penetrating radar. Pilon, J.A., ed. [1992,eng] 50-54
- Ground probing radar investigation of permafrost in northern Quebec. Pilon, J.A., et al. [1992,eng] 50-65
- Microbial life in permafrost: a historical review. Gilichinski, D.A., et al. [1996,eng] 50-6701
- Permafrost along the highway in the Kunlun Mountain Pass of Qinghai Province. Wang, S.L., et al. [1989,chi] 50-1342
- Permafrost along the Xining-Zhangye Highway. Wang, S.L., et al. [1995,chi] 50-5628
- Permafrost and thermal interfaces from Norman Wells pipeline ditchwall logs. Nixon, J.F., et al. [1991,eng] 50-1746
- Permafrost change in a peatland in northern Quebec, 1983-1993. Laberge, M.J., et al. [1995,eng] 50-77
- Permafrost degradation in the east of Tibetan Plateau. Zhu, L.N., et al. [1995,chi] 50-5618
- Permafrost degradation in the Greater Khingan Range. Yuan, H.Y., [1989,chi] 50-1349
- Permafrost distribution in the southern circumpolar region. Bockheim, J.G., [1995,eng] 50-666
- Permafrost formation and aggradation in a 23-m high homogeneous dyke: a case study. Konrad, J.M., et al. [1996,eng] 50-6165
- Permafrost in China: past and present. Qiu, G.Q., et al. [1995,eng] 50-664
- Permafrost in the coal mining area of the Greater Khingan Range. Guo, D.X., et al. [1989,chi] 50-1341
- Permafrost on the Qinghai-Xizang Plateau. Li, S.D., et al. [1992,chi] 50-1490
- Permafrost on the Tibet Plateau, China. Wang, B.L., et al. [1995,eng] 50-1856
- Permafrost variations at Mt Fenghuo in the Hoh Xil Mountains of Qinghai. Zhang, T.J., et al. [1989,chi] 50-1348
- Predicting the location of permafrost in central Yukon Territory. Williams, D.J., [1995,eng] 50-5668
- Recent cooling along Hudson Strait, from permafrost temperature measurements. Allard, M., et al. [1995,eng] 50-76
- Seismic refraction soundings 1993 on rock glacier permafrost in north-western Svalbard. Wagner, S., [1995,eng] 50-851
- Submarine cryolithozone of Russian Arctic off-shore: problems of hydrocarbon recovery. Kulpin, L.G., et al. [1995,eng] 50-2961
- Unfrozen water content and grain size of Mackenzie Delta core samples. Patterson, D.E., [1994,eng] 50-400
- Use of SAR satellite imagery to measure active layer moisture contents in arctic Alaska. Kane, D.L., et al. [1994,eng] 50-5695
- Permafrost thermal properties**
- Calorimetric determination of permafrost water-ice phase composition. Fortier, R., et al. [1996,eng] 50-4863

Permafrost thickness

- Climatic warming and the degradation of warm permafrost. Lunardini, V.J., [1996.eng] 50-6482
- Construction effects on soil temperature in Noril'sk. Kadkina, E.L., [1990.rus] 50-1617
- Cryolithozone of Western Siberia (thermal condition, database and mapping). An, V.V., et al., [1996.rus] 50-6359
- Current thermal regime of permafrost in Alaska and the predicted global warming. Osterkamp, T.E., et al., [1990.eng] 50-1663
- Degradation of the cryolithozone in Russia under global climatic warming. Ershov, E.D., et al., [1996.rus] 50-6840
- Determining the bearing strength of frozen foundations with variable temperature. Kononov, A.A., [1989.rus] 50-2253
- Distribution characteristics of taliks beneath lakes in the Bovanenok region. Anan'eva, G.V., et al., [1996.rus] 50-6360
- Effect of cryopegs on the temperature and salinity of surrounding permafrost. Anisimova, N.P., [1996.rus] 50-6390
- Effects of hydrology on the thermal conditions of the active layer. Woo, M.K., et al., [1994.eng] 50-5702
- Engineering-geocryological environment and changes in natural conditions in Punginsk. Shamanova, I.I., et al., [1985.rus] 50-247
- Foundation rehabilitation at ADOT/PF Jim River Maintenance Camp. Rooney, J.W., et al., [1991.eng] 50-1768
- Ground temperature of permafrost active layer in the Fugleberget catchment basin. Kamiński, A., et al., [1993.eng] 50-2203
- High-temperature permafrost as building foundation. Salnikov, P.I., [1993.rus] 50-109
- Hydraulic structures in permafrost. Gevirts, G.I.A., [1993.eng] 50-104
- II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973, [1973.rus] 50-5139
- Oil recovery from Alaskan tar sands using electromagnetic heating. Islam, M.R., et al., [1991.eng] 50-1760
- Open-cast underground technology of permafrost placer mining in the Arctic. Lavrov, N.P., et al., [1991.eng] 50-1717
- Permafrost and the environment in Alaska. Loutspeich, F.B., [1973.eng] 50-854
- Permafrost formation and aggradation in a 23-m high homogeneous dyke: a case study. Konrad, J.M., et al., [1996.eng] 50-6165
- Permafrost variations at Mt Fenghuo in the Hoh Xil Mountains of Qinghai. Zhang, T.J., et al., [1989.chi] 50-1348
- Recent climatic trend and thermal response of permafrost in Saluit, northern Quebec, Canada. Wang, B.L., et al., [1996.eng] 50-6699
- Recent cooling along Hudson Strait, from permafrost temperature measurements. Allard, M., et al., [1995.eng] 50-76
- Regularities in the interaction of frozen strata with gas or gas hydrate beds. Romanovskii, N.N., et al., [1996.rus] 50-6391
- Thermal effects of the ocean on permafrost. Lachenbruch, A.H., [1957.eng] 50-3943
- Using heat exchange models for geocryological temperature monitoring. Izakson, V.I.U., et al., [1992.rus] 50-820
- What makes permafrost permanent? Schoonmaker, D., [1993.eng] 50-3147
- Permafrost thickness**
- Climatic warming and the degradation of warm permafrost. Lunardini, V.J., [1996.eng] 50-6482
- Compilation of the map of seasonal frozen depth in Jilin Province at 1:2,000,000. Zhang, X., et al., [1989.chi] 50-1351
- Ground penetrating radar monitoring of permafrost along the Norman Wells pipeline. Moorman, B.J., et al., [1994.eng] 50-5590
- Ground probing radar investigation of permafrost in northern Quebec. Pilon, J.A., et al., [1992.eng] 50-65
- Hybrid model for predicting permafrost occurrence and thickness. Wright, J.F., [1995.eng] 50-5669
- Modelling of permafrost depth in France during the last 120,000 years. Lebreit, P., et al., [1996.fre] 50-4570
- Permafrost along the highway in the Kunlun Mountain Pass of Qinghai Province. Wang, S.L., et al., [1989.chi] 50-1342
- Permafrost along the Xining-Zhangye Highway. Wang, S.L., et al., [1995.chi] 50-5628
- Permafrost degradation in the Greater Khingan Range. Yuan, H.Y., [1989.chi] 50-1349
- Permafrost distribution in the southern circumpolar region. Bockheim, J.G., [1995.eng] 50-666
- Permafrost hydrology in the Greater Khingan Range. Lin, F.T., et al., [1989.chi] 50-1344
- Permafrost in the coal mining area of the Greater Khingan Range. Guo, D.X., et al., [1989.chi] 50-1341
- Permafrost on the Qinghai-Xizang Plateau. Li, S.D., et al., [1992.chi] 50-1490
- Permafrost variation in Hokkaido since the last glacial maximum. Nakayama, T., [1995.jpn] 50-986
- Permafrost variations at Mt Fenghuo in the Hoh Xil Mountains of Qinghai. Zhang, T.J., et al., [1989.chi] 50-1348
- Proceedings. Chinese National Conference on Permafrost, 3rd, Harbin, China, Aug. 19-24, 1986. [1989.chi] 50-1340
- Recent cooling along Hudson Strait, from permafrost temperature measurements. Allard, M., et al., [1995.eng] 50-76
- Thermal regime of Holocene Greenland ice sheet moraine formation. Van Tatenhove, F.G.M., et al., [1996.eng] 50-5582
- Thickness and structural characteristics of the cryolithozone in northwest Siberia. Agalakov, S.E., [1996.rus] 50-6358
- Underground water of permafrost area in Da Hinggan Ling. Zheng, Q.P., [1989.chi] 50-1343

Permafrost transformation

- Active layer changes following forest tundra fire. Mackay, J.R., [1995.eng] 50-2807
- Application of foam insulation for remediation of degraded permafrost. Feklistov, V.N., et al., [1996.eng] 50-5472
- Application of pipe temperature simulator for Norman Wells oil pipeline. Nixon, J.F., et al., [1996.eng] 50-4306
- Biological rehabilitation of disturbed lands in the arctic gas-producing regions. Masalkin, S.D., [1991.eng] 50-1767
- Boreal forest catchments: research sites for global change at high latitudes. Slaughter, C.W., et al., [1995.eng] 50-767
- Canadian permafrost distribution during the Holocene. Zoltai, S.C., [1995.eng] 50-1453
- Case studies of geoprocesses and environmental change in mountains of northern Sweden. Rapp, A., [1995.eng] 50-4187
- Changes in permafrost conditions. Vaikmäe, R., et al., [1995.eng] 50-506
- Cold climate concerns. Part 2. Infrastructure planning and maintenance. Ryan, W.L., [1995.eng] 50-1077
- Correlation between Pleistocene involutions in English soil and Canadian thermokarst. Murton, J.B., et al., [1995.eng] 50-1803
- Drilling waste disposal in the Arctic using below-grade freeze-back. Maunder, T.E., et al., [1991.eng] 50-1697
- Effect of climate warming on the Qinghai-Tibet Highway, China. Tong, C.J., et al., [1996.eng] 50-3830
- Effects of climatic change on permafrost in the arid and semi-arid regions of China. Xie, Y.Y., [1995.eng] 50-3391
- Effects of global warming on building construction on permafrost. Khurshatov, L.N., [1996.eng] 50-5861
- Electrical freezing potentials measured in a pingo growing in the western Canadian Arctic. Parameswaran, V.R., et al., [1996.eng] 50-5471
- Extreme fire seasons in the forests of Evenkia. Ivanova, G.A., [1995.eng] 50-4700
- Hydraulic fill ash storage design for the permafrost zone. Korotova, I.V., et al., [1995.eng] 50-1838
- Hydraulic mining of permafrost placers by boreholes. Khurshatov, A.S., [1991.eng] 50-1716
- Ice-wedge formation in northern Asia during the Holocene. Vasilchuk, I.U.K., et al., [1996.eng] 50-6705
- Impact of glaciation on the groundwater regime of northwest Europe. Boulton, G.S., et al., [1996.eng] 50-5326
- Mass exchange between meltwater streams and proglacial deposits. Holmlund, P., et al., [1996.eng] 50-6241
- Mode of degradation of Pleistocene permafrost in West Siberia. Astakhov, V.I., [1995.eng] 50-507
- Mountain permafrost and slope instability in the Italian Alps: the Val Pola landslide. Dramis, F., et al., [1995.eng] 50-669
- Open-cast underground technology of permafrost placer mining in the Arctic. Lavrov, N.P., et al., [1991.eng] 50-1717
- Paleogeographical studies of permafrost in the eastern Taymyr lowland. Siegert, C., et al., [1995.eng] 50-2092
- Permafrost distribution in the northern hemisphere under scenarios of climatic change. Anisimov, O.A., et al., [1996.eng] 50-6619
- Permafrost distribution in the southern circumpolar region. Bockheim, J.G., [1995.eng] 50-666
- Permafrost in China: past and present. Qiu, G.Q., et al., [1995.eng] 50-664
- Permafrost on the Tibet Plateau, China. Wang, B.L., et al., [1995.eng] 50-1856
- Permafrost soil thawing after forest fires. Swanson, D.K., [1996.eng] 50-5497
- Problems of dead ice and ground ice in the central part of the north European plain. Böse, M., [1995.eng] 50-508
- Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991, [1991.eng] 50-1696
- Rock massif response to subzero temperature fluctuations. Chislov, A.I., [1991.eng] 50-1745
- Seasonal and annual dynamics of frozen ground in the central highland of Iceland. Þórhalldóttir, T.E., [1996.eng] 50-5499
- Siberian tundra CO₂ flux as a source of seasonal CO₂ variations. Zimov, S.A., et al., [1996.eng] 50-5868
- Slope stability problems in open pit coal mines in permafrost regions. Vakili, J., [1991.eng] 50-1749
- Subpermafrost groundwater, western Svalbard. Haldorsen, S., et al., [1994.eng] 50-5697
- Terrestrial component of the cryosphere. Melnikov, P.A., et al., [1993.eng] 50-5483
- What makes permafrost permanent? Schoonmaker, D., [1993.eng] 50-3147
- World Oil's handbook of arctic well completions. Goodman, M.A., [1978.eng] 50-2057
- Permafrost weathering**
- Ecological controls on peatland methane emissions in discontinuous permafrost. Bubier, J.L., et al., [1995.eng] 50-2803
- Periglacial denudation in the Richardson Mountains. Fried, G., et al., [1993.eng] 50-1675
- Permafrost, gelifluction and fluvial sediment transfer in the Austrian Alps. Veit, H., et al., [1993.eng] 50-1676
- Rock breakdown during spring thaw in Spitsbergen. Ødegård, R.S., et al., [1995.eng] 50-4831
- Permeability**
- Acid stimulation of Endicott Kekikuk Formation, North Slope, Alaska. Hsi, C.K.D., et al., [1991.eng] 50-1751
- Alternative road construction for stormwater management in cold climates. Stenmark, C., [1995.eng] 50-2532

- Analysis of return drilling fluids in Prudhoe Bay oil wells. Fambrough, J.D., et al., [1991.eng] 50-1714
- Assessing frost damage in compacted clay liners. Benson, C.H., et al., [1995.eng] 50-1133
- Cement and lime for deep stabilization of soil. A chemical-physical study of stabilization effects. Åhnberg, H., et al., [1995.swe] 50-2168
- Diffusive properties of polymer membranes prepared by freeze/thaw techniques. Hickey, A.S., et al., [1995.eng] 50-2698
- Distribution, origin, and hydraulic influence of fractures in a clay-rich glacial deposit. McKay, L.D., et al., [1995.eng] 50-3254
- Effect of electroporation on intracellular ice formation in rye leaf protoplasts. Chandrasekaran, M., et al., [1995.eng] 50-1465
- Effects of freeze-thaw cycles on the properties of a sensitive clay. Roy, M., et al., [1995.fre] 50-581
- Estimation of unsaturated permeability from suction curves. Thompson, J.D., [1981.eng] 50-2144
- Experimental studies of the interaction of oil with cryogenic rocks. Ershov, E.D., et al., [1996.rus] 50-6823
- Filtration permeability of permafrost. Olovin, B.A., [1993.rus] 50-89
- Fluorimetric assessment of bacteria after freeze-thawing. Puchkov, E.O., et al., [1995.eng] 50-5865
- Formation of ice between hydrotalcite particles measured by thermoporometry. Titulaer, M.K., et al., [1996.eng] 50-6330
- Freeze-thaw effects of fine-grained soil permeability. Eigenbrod, K.D., [1996.eng] 50-6749
- Frost heave due to ice lens formation in freezing soils. 1. Theory and verification. Sheng, D., et al., [1995.eng] 50-742
- Groundwater flow through Ontario glacial deposits. Gerber, R.E., et al., [1996.eng] 50-6750
- Heat transfer through permeable cold-weather clothing. Kind, R.J., et al., [1995.eng] 50-1139
- Hydraulic conductivity of frozen granular soils. Andersland, O.B., et al., [1996.eng] 50-4048
- Impact of Cenozoic uplift on offshore Norwegian hydrocarbon exploration. Doré, A.G., et al., [1996.eng] 50-5327
- Impact of fires on mountain sod-taiga soils under larch forests in Mongolia. Krasnoshechekov, I.U.N., [1995.eng] 50-2715
- Impact of glaciation on the groundwater regime of northwest Europe. Boulton, G.S., et al., [1996.eng] 50-5326
- Impermeable and permeable zones in permafrost. Olovin, B.A., [1996.eng] 50-6486
- Influence of supercooling on salt-water saturated porous medium. Okada, M., et al., [1996.eng] 50-6762
- Optimal fracture stimulation of a moderate permeability reservoir. Kupařuk River unit. Pearson, C.M., et al., [1991.eng] 50-1701
- Pore size effects on road subgrade frost susceptibility. Wood, L.E., et al., [1982.eng] 50-2028
- Possible consequences of glacially induced groundwater flow. Forsberg, C.F., [1996.eng] 50-5325
- Predicting brick frost resistance. II. Robinson, G.C., et al., [1995.eng] 50-1961
- Protection against chloride-induced corrosion. Berke, N.S., et al., [1988.eng] 50-4229
- Prudhoe Bay field, Alaska, waterflood injection water quality and remedial treatment study. Hsi, C.D., et al., [1991.eng] 50-1700
- Relation between permeability and pore size distribution of compacted clayey silts. Garcia-Bengochea, I., [1978.eng] 50-2802
- Reservoir potential of an upwelling deposit, Prudhoe Bay. Kupecz, J.A., [1995.eng] 50-6551
- Saturated cemented porous material permeability during freezing. Kralj, B., et al., [1996.eng] 50-5024
- Self healing of high strength concrete after deterioration by freeze/thaw. Jacobsen, S., et al., [1996.eng] 50-3725
- Suction measurements on compacted till specimens. Fredlund, D.G., et al., [1995.eng] 50-1154
- Superplasticizer dosage effects on concrete frost resistance. Gagné, R., et al., [1996.eng] 50-5922
- Thermal equilibrium in freezing unsaturated porous media. Tao, Y.X., et al., [1993.eng] 50-3362
- Water vapor transfer through a hydrophilic film at subzero temperatures. Oscewsky, R.J., [1996.eng] 50-4498
- Winter effects on hydraulic conductivity of compacted clay—discussion. Day, R.W., et al., [1996.eng] 50-5207
- Winter-time convection in open-graded embankments. Goering, D.J., et al., [1996.eng] 50-3827
- See [also]: Seepage; Snow permeability
- Peru**
- Short pulse radar soundings from glaciers of Peru and China. Thompson, L.G., [1992.eng] 50-67
- Peru—Andes Mountains**
- Late Pleistocene equilibrium-line reconstructions in the northern Peruvian Andes. Rodbell, D.T., [1992.eng] 50-2549
- Petroleum**
- See [also]: Crude oil
- Petroleum industry**
- \$1.5 billion development plan set for BP's Alaskan Beaufort Sea fields. [1996.eng] 50-5290
- 1995 annual report on Alaska's mineral resources. Schneider, J.L., ed. [1995.eng] 50-5664
- Another look at oil transportation in and from the arctic environment. Marsden, S.S., Jr., et al., [1991.eng] 50-1711
- Arctic and Offshore Research Information System. Shoemaker, H.D., et al., [1991.eng] 50-1753
- Arctic conferences fail to be frozen. [1986.eng] 50-5652

Petroleum transportation

Phase transformations

- Arctic not so costly and design ice loads falling.[1990.eng] 50-5586
- Arctic operators seek warmth in a cold climate. Cottrill, A., [1986.eng] 50-5653
- Ardal platform evacuation vehicle.[1990.eng] 50-5588
- Ardalin field flows despite weather, terrain. Britton, M.W., et al. [1995.eng] 50-4396
- Beaufort Sea Planning Area Oil and Gas Lease Sale 144. Final environmental impact statement. U.S. Department of the Interior. Minerals Management Service. Alaska Outer Continental Shelf Region. [1996.eng] 50-4552
- Challenges for the development of hydrocarbon fields in the Barents Sea. Gudmestad, O.T., et al. [1995.eng] 50-209
- Cryolithozone structure in an oil and gas-bearing province supply. Dedeev, V.A., et al. [1990.rus] 50-1630
- Damage to equipment and structures in the North. Novopashin, M.D., et al. [1993.rus] 50-465
- Ecological monitoring of territories with oil and gas reserves in the cryolithozone. Antonov-Druzhinin, V.P., et al. [1990.rus] 50-1605
- Ecologization of technological processes in oil and gas construction in arctic regions. Shishov, V.N., et al. [1990.rus] 50-1606
- Engineering-ecological basis for the oil and gas development of the North. Mazur, I.I. [1990.rus] 50-1600
- Engineering-ecology safety during the operation of oil and gas facilities. Konstantinov, I.P. [1996.rus] 50-6845
- Environment and research in Greenland and Jameson Land. Di Cesare, F., et al. [1994.ita] 50-2819
- Environmental impact of offshore oil exploration in the Arctic. Mosbech, A., et al. [1995.eng] 50-2964
- Estimation of burial depths for pipelines in arctic regions. Chouinard, L.E. [1995.eng] 50-1839
- Exploration and development of oil and gas field on the shelf of Sakhalin. Bogdanchikov, S.M., et al. [1995.eng] 50-168
- Exploratory oil drilling in the Beaufort Sea. Cottrill, A., [1986.eng] 50-5651
- Future of oil and gas in northern Alaska. Bird, K.J., et al. [1995.eng] 50-5642
- Geo-ecological problems of the oil and gas complex in Yamal. Melnikov, E.S., et al. [1990.rus] 50-1599
- Geocryological studies in arctic regions. Vol.3, Part 1: Environmental protection in the Arctic. Geokriologicheskije issledovaniia v arkicheskih raionakh; mezhdunarodnyi simpozium. SSSR. Iamburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, August 1989). [1990.rus] 50-1597
- Hearing on arctic coastal plain leasing to petroleum interests. U.S. Congress. House. Committee on Resources. [1995.eng] 50-3455
- Hibernia edges forward as bidding starts. Fox, C. [1988.eng] 50-4969
- Kinetics of gas hydrate formation and kinetic inhibition in offshore oil and gas operations. Englezos, P. [1995.eng] 50-171
- Laying of oil industry pipelines in permafrost conditions in Western Siberia. Karavaev, S.S., et al. [1989.rus] 50-2249
- Merging U.S., Canadian arctic areas considered.[1994.eng] 50-942
- Multilaterals, horizontal wells could access remote Russian oil reserves. Hazen, T. [1996.eng] 50-6575
- Natural resources of Inner Mongolia. Eer, D., ed. [1987.chi] 50-2290
- New challenges for the pipeline engineer in the Russian Arctic. Brown, R.J. [1995.eng] 50-212
- North Sea and Norwegian Sea hydrocarbon exploration. Alberti Di Catenaja, C., et al. [1994.ita] 50-2818
- Northern Gateway Oil Terminal Study: phase I. Vikhamar, T.K., et al. [1995.eng] 50-211
- Norway entices exploration groups with improved licensing terms.[1995.eng] 50-2537
- Norwegian petroleum resources with focus on challenges and opportunities in the Barents Sea. Aamodt, F.R. [1995.eng] 50-174
- Oil and gas fields of Qinghai and Xizang. Gu, S.S., ed. [1990.chi] 50-2177
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge. Alaska. Department of Environmental Conservation. Division of Environmental Quality. [1990.eng] 50-3913
- Petroleum exploration opportunities on the U.S.-Russia Chukchi Sea continental shelf. Warren, T., et al. [1995.eng] 50-210
- Petroleum in glacially-related sandstones of Gondwana: a review. Potter, P.E., et al. [1995.eng] 50-3252
- Petroleum resources of the Mackenzie Delta and Beaufort Sea. Dixon, J., et al. [1994.fre] 50-3319
- Policy issues associated with leasing of the Arctic National Wildlife Refuge, Alaska. Westernmeyer, W.E., [1990.eng] 50-1607
- Proceedings. Vol.2. International Offshore and Polar Engineering Conference, 5th, Hague, Netherlands, June 11-16, 1995. [1995.eng] 50-175
- Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991. [1991.eng] 50-1696
- Recovery target: Prudhoe Bay heavy crude oil.[1995.eng] 50-3690
- Review of bioremediation experience in Alaska. Kellems, B.L., et al. [1994.eng] 50-1473
- Review of select exploration and development activity in state nearshore areas. Hansen, J. [1995.eng] 50-6305
- Safe operation of arctic offshore drilling systems in the United States. Regg, J., et al. [1995.eng] 50-216
- Shell to the fore as Chukchi opens up.[1988.eng] 50-4968
- Siberian company starts up modular refinery.[1996.eng] 50-5575
- State of Alaska's participation in spill response and preparedness in the state. Vogt, D., [1992.eng] 50-87
- Submarine cryolithozone of Russian Arctic off-shore: problems of hydrocarbon recovery. Kulpin, L.G., et al. [1995.eng] 50-2961
- Surprising success for Arctic lease sale.[1988.eng] 50-4967
- Technogenic dynamics of oil field terrain in the cryolithozone. Popkov, O.N., [1996.rus] 50-6852
- Technological improvement of biological recultivation of soils in Komi. Lobovikov, N.N., et al. [1994.rus] 50-291
- Terrain performance, Norman Wells oil pipeline, Northern Canada. Harry, D.G., [1990.rus] 50-1625
- West Siberian oil and the northern sea route: current situation and future potential. Kriukov, V., et al. [1995.eng] 50-6104
- World Oil's handbook of arctic well completions. Goodman, M.A., [1978.eng] 50-2057
- Petroleum transportation**
- Arctic Pilot Project integrated route analysis. Chapter 2. Physical aspects of the route areas.[1981.eng] 50-3558
- Damage to equipment and structures in the North. Novopashin, M.D., et al. [1993.rus] 50-465
- Environment and research in Greenland and Jameson Land. Di Cesare, F., et al. [1994.ita] 50-2819
- Escorting and tethering oil tankers in Prince William Sound. Corsini, T.J., [1995.eng] 50-5718
- Experiences of three years of oil transportation in the Russian Arctic with a Western fleet. Niini, M., [1996.eng] 50-4486
- Fuel and oil usage in Antarctica. Sayers, J., [1994.eng] 50-4273
- Navigation and the pollution of the coastal zone of Arctic seas. Slevich, S.B., et al. [1991.rus] 50-1319
- Northern Gateway Oil Terminal Study: phase I. Vikhamar, T.K., et al. [1995.eng] 50-211
- Photo-registration of pre- and post-breakdown situations in oil pipelines in Siberia. Eliseev, I.U.B., [1996.rus] 50-6858
- Preliminary study of tankers for year-round transportation of crude oil from Ob Gulf. Tsoi, L.G., et al. [1996.eng] 50-4461
- Seaborne oil and gas transportation from Northern Russia. Backlund, A., [1996.eng] 50-4487
- Transport of natural gas as frozen hydrate. Gudmundsson, J.S., et al. [1995.eng] 50-170
- Transportation of Alaska North Slope natural gas to market. Lannom, D.A., et al. [1996.eng] 50-6126
- West Siberian oil and the northern sea route: current situation and future potential. Kriukov, V., et al. [1995.eng] 50-6104
- Phase transformations**
- Acoustic emissions during ice phase transformations. Sakharov, I.I., [1995.eng] 50-157
- Analysis of the transient response of a thermal energy storage unit. Kuznetsov, A.V., [1996.eng] 50-6472
- Analysis of thermal stresses around a cryosurgical probe. Rabin, Y., et al. [1996.eng] 50-5814
- Asymptotic stability of the viscous-plastic sea ice rheology. Schulkes, R.M.S.M., [1996.eng] 50-4534
- Basic processes determining the rheological behavior of plastic-frozen ground under stress. Ukhov, S.B., et al. [1996.rus] 50-6827
- Brief review of physical and mathematical models of frost heave. Holden, J.T., [1981.eng] 50-2137
- Calorimetric determination of permafrost water-ice phase composition. Fortier, R., et al. [1996.eng] 50-4863
- Capsule-type thermal energy storage system. Ishikawa, M., et al. [1996.eng] 50-6446
- Changes of model mixtures during freezing and drying. Shalaev, E.U., et al. [1996.eng] 50-4531
- Comment on "Surface layers on ice" by C.A. Knight. Baker, M.B., et al. [1996.eng] 50-6059
- Comparison of load restriction timings determined using FHWA guidelines and frost tubes. Yesiller, N., et al. [1996.eng] 50-4752
- Conception for the rehabilitation of transportation infrastructures in northern regions. Ladanyi, B., [1994.fre] 50-4946
- Controlled melting in a thermal storage phase change material. Prasad, A., et al. [1996.eng] 50-6448
- Convection and freezing around a cylinder in a saturated medium. Okada, M., et al. [1996.eng] 50-6455
- Cool thermal discharges from ice melting with specified heat fluxes on the boundary. Yeh, H.M., et al. [1996.eng] 50-5521
- Correction to paper by Schulson and Nikolayev. Schulson, E.M., et al. [1996.eng] 50-4361
- Cosmoglaciology: evolution of ice in interstellar space and the early solar system. Kouchi, A., et al. [1995.eng] 50-1030
- Cryomicroscopic determination of ice crystal growth in the system 2,4-pentanediol/water. Mehl, P.M., [1996.eng] 50-2744
- Crystallisation and the glass transition in suspensions of hard colloidal spheres. van Meegen, W., [1995.eng] 50-1223
- Crystallization of ice in glycerol solutions, pt. I. Hey, J.M., et al. [1996.eng] 50-5813
- Depolarized light scattering spectroscopy of glassforming liquids: experimental tests of MCT. Cummins, H.Z., et al. [1995.eng] 50-1222
- Depth hoar influence on permafrost thermal regime. Zhang, T., et al. [1996.eng] 50-6585
- Development of a quantitative model of frost heave. Holden, J.T., [1977.eng] 50-2322
- Diffusive properties of polymer membranes prepared by freeze/thaw techniques. Hickey, A.S., et al. [1995.eng] 50-2698
- Direct contact melting process on a curved wall coated with a porous layer. Oka, M., et al. [1996.eng] 50-6451
- Dispersion-force effects in interfacial premelting of ice. Wilen, L.A., et al. [1995.eng] 50-2134
- Ductile-to-brittle transition of compressed ice. Schulson, E.M., et al. [1995.eng] 50-2157
- Dynamics of metastable states: mode-coupling theory and beyond. Duffy, J.W., et al. [1995.eng] 50-1221
- Effect of breakup of melting snowflakes on the resulting size distribution of raindrops. Fujiyoshi, Y., et al. [1996.eng] 50-6724
- Effects of localized deformation on melting processes in ice. Wilson, C.J.L., et al. [1996.eng] 50-5470
- Elastic properties of dense H₂O-ices studied by Brillouin spectroscopy. Shimizu, H., [1996.eng] 50-6725
- Electron-beam-induced amorphization of ice III or IX obtained by high-pressure freezing. Sartori, N., et al. [1996.eng] 50-6531
- Energetics of framework formation in cubic clathrate hydrates. Kosiakov, V.I., et al. [1995.eng] 50-3677
- Erratum for paper by K. Fujii. Fujii, K., [1996.eng] 50-5938
- Evaluation of frost action on concrete. Kleiner, V.D., [1996.eng] 50-4367
- Evaporation rate, free energy, and entropy of amorphous water at 150 K. Speedy, R.J., et al. [1996.eng] 50-5920
- Experimental study of dielectric relaxation in supercooled alcohols and polyols. Murthy, S.S.N., [1996.eng] 50-4084
- Experimental study of freezing of binary solutions. Zampino, M.A., et al. [1991.eng] 50-1243
- Experimental study of the melting from discrete heat sources in a vertical enclosure. Duong, T., et al. [1996.eng] 50-6450
- Experimental study on the melting transition at interface between ice crystal and substrate. Furukawa, Y., et al. [1994.eng] 50-3072
- Explicit cloud physics parameterization for operational numerical weather prediction. Schultz, P., [1995.eng] 50-1529
- Fish antifreeze protein inhibition of liposome leakage. Hays, L.M., et al. [1996.eng] 50-6220
- Fluctuations during melting. Grimsditch, M., et al. [1996.eng] 50-6345
- Forced-convection melting characteristics of liquid ice in a horizontal rectangular duct. Yamada, M., et al. [1996.eng] 50-6465
- Formation of taliks and high temperature frozen rocks under conditions of Central Yakutia. Shender, N.I., et al. [1996.rus] 50-6412
- Freezing and melting of mercury in porous glass. Kuznetsov, I.U.A., et al. [1995.eng] 50-1132
- Freezing of a salt solution in a packed bed. Chellaiah, S., et al. [1995.eng] 50-2956
- Freezing of a salt solution in a packed bed. Chellaiah, S., et al. [1996.eng] 50-3909
- Freezing of an aqueous sodium chloride saturated packed bed. Choi, J., et al. [1993.eng] 50-5781
- Freezing of liquids in a laminar flow in a heat flux cooled circular duct. Prasad, A., et al. [1996.eng] 50-6463
- Freezing rate effects on colloid viscoelasticity. Sahagian, M.E., et al. [1995.eng] 50-1253
- Frozen startup in heat pipes. Faghri, A., [1995.eng] 50-3517
- Fundamentals of ice lens formation. Takagi, S., [1975.eng] 50-3390
- Geometry and energy calculations of the HS-III polyhedral gas hydrate framework. Kosiakov, V.I., et al. [1995.eng] 50-3676
- Grain multiplication mechanism for sea ice transition zone formation. Wei, Y.C., et al. [1995.eng] 50-1143
- Heat balance integral method and freezing problems. Lunardini, V.J., [1996.eng] 50-6429
- Heat transfer during the freezing of water in a cylinder. Yim, C.S., et al. [1996.eng] 50-6466
- Heat transfer in an ice-water saturated porous medium. Zhang, X.L., [1993.eng] 50-5782
- High pressure-differential thermal analysis of ice-water equilibrium at 1.5-5.0 GPa. Xu, Y.S., et al. [1995.eng] 50-3392
- High-density amorphous ice, the frost on interstellar grains. Jenniskens, P., et al. [1995.eng] 50-2780
- High-pressure elastic properties of the VI and VII phase of ice in dense H₂O and D₂O. Shimizu, H., et al. [1996.eng] 50-4355
- History of cold regions heat transfer: chronology. Cheng, K.C., et al. [1996.eng] 50-6433
- Homogeneous nucleation in supercooled molecular clusters. Bartell, L.S., et al. [1995.eng] 50-1280
- Hybrid system of latent heat storage and spray flash evaporation. Miyatake, O., et al. [1996.eng] 50-6444
- Ice and hydrate freezing points of aqueous ethylene oxide solutions. Glew, D.N., et al. [1995.eng] 50-45
- Ice cloud microphysics in a general circulation model. pt.3. Fowler, L.D., et al. [1996.eng] 50-5017
- Ice polymorph pressure determination in a diamond-anvil cell. Haselton, H.T., Jr., et al. [1995.eng] 50-4088
- Ice/supercooled water linear correlation length from Raman spectroscopy. Walrafen, G.E., et al. [1995.eng] 50-152
- Influence of supercooling on salt-water saturated porous medium. Okada, M., et al. [1996.eng] 50-6762
- Influence of temperature on crystallization of lactose in ice-cream. Livney, Y.D., et al. [1995.eng] 50-2745

Phenology

- Investigation of the dynamic loading of ice. Chizhov, V.E., [1996,eng] 50-5269
- Ion irradiation of astrophysical ices. Strazzulla, G., et al. [1995,eng] 50-3022
- Isotopic exchange during glass transition of amorphous ice. Fisher, M., et al. [1995,eng] 50-150
- Kinetics of freezing of dimethylacetylene. An electron diffraction study. Huang, J.F., et al. [1995,eng] 50-151
- Kinetics of the freezing of water in dispersed soils (experiment, theory). Grechishchev, S.E., et al. [1996,rus] 50-6811
- Large eddy simulation of the turbulent flow in a marine convective boundary layer with snow. Rao, G.S., et al. [1996,eng] 50-3683
- Latent heat thermal energy storage system using spherical capsules. Saitoh, T., et al. [1996,eng] 50-6443
- Lattice vibrations in ice I_h. Itoh, H., et al. [1996,eng] 50-6616
- Light-scattering spectrum of supercooled liquids. Latz, A., et al. [1996,eng] 50-5102
- Liquid ice melting along a bundle of heated cylinders. Yamada, M., et al. [1996,eng] 50-4965
- Liquid-glass transition in a strong glassformer. Torelli, L.M., et al. [1995,eng] 50-1225
- Low-temperature amorphous phase in a fragile glass-forming substance. Cohen, I., et al. [1995,eng] 50-5971
- Magnetic resonance imaging of gel phase transformations. Hong, J.S., et al. [1995,eng] 50-2739
- Mathematical model of the freezing-thawing of saline frozen soil. Vasil'ev, V.I., et al. [1996,eng] 50-5268
- Mathematical model to correlate frost heave of pavements with laboratory predictions. Final report. Berg, R.L., et al. [1996,eng] 50-3333
- Mechanical behavior of frozen earth materials under high pressure triaxial test conditions. Chamberlain, E.J., et al. [1970,eng] 50-3310
- Melting inside a cylinder filled with phase change material. Back, Y.R., et al. [1996,eng] 50-6457
- Micro-solidification of solutions with supercooling. Hayashi, Y., [1996,eng] 50-6431
- Mixed-phase cloud scheme based on a single prognostic equation. Tremblay, A., et al. [1996,eng] 50-6665
- Mode coupling in critical phenomena and supercooled liquids. Kawasaki, K., [1995,eng] 50-1219
- Mode coupling theory of structural relaxations. Götz, W., et al. [1995,eng] 50-1220
- Model of the glass transition. Mansfield, M.L., [1995,eng] 50-1445
- Modelling and calculating the thermoplastic state of frozen ground. Dubina, M.M., et al. [1991,rus] 50-5054
- Moisture movement and freezing pressures. Hoekstra, P., [1968,eng] 50-1976
- Molecular dynamics investigations of slow relaxations in supercooled liquids. Hansen, J.P., et al. [1995,eng] 50-1226
- Molecular dynamics study of surface melting on ice crystal. Nada, H., et al. [1994,eng] 50-3073
- Molecular dynamics study of the freezing of clusters of chalcogen hexafluorides. Kinney, K.E., et al. [1996,eng] 50-5780
- Monte Carlo simulation of the glass transition in polymer melts: an application of MCT. Baschnagel, J., [1995,eng] 50-1229
- Natural convection for the melting of ice in porous media in a rectangular enclosure. Chang, W.J., et al. [1996,eng] 50-4533
- Near-infrared absorption coefficients of solid nitrogen as a function of temperature. Tryka, K.A., et al. [1995,eng] 50-1078
- New experimental data on ice VI, ice VII and liquid water phase boundaries. Tkachev, S.N., et al. [1995,rus] 50-4114
- New high-pressure phase of ice. Benoit, M., et al. [1996,eng] 50-6096
- New look at the melting layer. Drummond, F.J., et al. [1996,eng] 50-4145
- Nucleation rates in freezing of molecular clusters. Bartell, L.S., [1995,eng] 50-2346
- Numerical studies of Langevin equations for the dynamics of a dense hard sphere fluid. Valls, O.T., et al. [1995,eng] 50-1228
- On the global variation of precipitating layer clouds. Ryan, B.F., [1996,eng] 50-3293
- Origin and thermal evolution of icy satellites. Coradini, A., et al. [1995,eng] 50-1069
- Parameterization of cloud ice crystal conversion processes. pt.1. Harrington, J.Y., et al. [1995,eng] 50-3260
- Penetrative convection induced by the freezing of seawater. Hadji, L., et al. [1996,eng] 50-6761
- Phase change problems in soil freezing. Li, S.X., [1989,chi] 50-1376
- Phase composition of moisture in saline frozen ground. Motenko, R.G., et al. [1996,rus] 50-6837
- Phase equilibria in extended simple point charge ice-water systems. Báez, L.A., et al. [1995,eng] 50-2606
- Phase equilibrium of soil water on the cryolithosphere. Konov-alov, A.A., [1996,rus] 50-6812
- Phase transformation in materials with nonuniform phase transition temperatures. Hong, J.S., et al. [1995,eng] 50-755
- Phase transition of the hydrogen-bonded crystals and ice. Fujii, K., [1995,eng] 50-1112
- Phase transitions of ice confined in mesopores. Hansen, E.W., et al. [1996,eng] 50-4141
- Phase transitions of water films adsorbed on pyrogenic silica. Bogdan, A., et al. [1996,eng] 50-2021
- Photochemistry of chlorine dioxide in ice. Pursell, C.J., et al. [1995,eng] 50-154

- Photodissociation of condensed films of chlorine dioxide. Lanzendorf, E.J., et al. [1996,eng] 50-6679
- Potential food applications of high-pressure effects on ice-water transitions. Kalichevsky, M.T., et al. [1995,eng] 50-1955
- Pressure and salinity effects on phase composition of water in frozen ground. Kondakov, V.V., et al. [1990,rus] 50-1612
- Pressure studies on frost heave in soil and glaciers. Radd, F.J., et al. [1966,eng] 50-1409
- Proceedings. International Symposium on Thermal Engineering and Sciences for Cold Regions, 5th, Ottawa, May 19-22, 1996. [1996,eng] 50-6428
- Proton dynamics of doped ice. Akiyama, T., et al. [1996,eng] 50-6726
- Proton-ordered ice structures at zero pressure. A quantum-mechanical investigation. Pisani, C., et al. [1996,eng] 50-5935
- Quartzlike polymorph of ice. Svishchev, I.M., et al. [1996,eng] 50-4412
- Quasielastic neutron scattering in glass forming viscous liquids. Perry, W., et al. [1995,eng] 50-1224
- Radiation chemistry of ices of planetological interest at low temperature. Strazzulla, G., [1995,eng] 50-654
- Radiation-induced polymerization in high pressure ice. Kirikuhin, D.P., et al. [1995,eng] 50-415
- Radioactive heating of porous comet nuclei. Prialnik, D., et al. [1995,eng] 50-1464
- Relaxation dynamics of supercooled polymers. Parthun, M.G., et al. [1995,eng] 50-1572
- Relaxation processes in supercooled carbohydrates. Gangasharan, et al. [1995,eng] 50-1571
- Rheology of water ices V and VI. Durham, W.B., et al. [1996,eng] 50-3450
- Role of ice in the global water cycle. Lawford, R.G., [1993,eng] 50-5079
- Sand liquefaction strength obtained by in situ freezing. Hatanaka, M., et al. [1995,eng] 50-1179
- Saturated cemented porous material permeability during freezing. Kralj, B., et al. [1996,eng] 50-5024
- Slow dynamics of water molecules in supercooled states. Gallo, P., et al. [1996,eng] 50-4293
- Snow crystal imaging using scanning electron microscopy: II. Metamorphosed snow. Rango, A., et al. [1996,eng] 50-4567
- Soil freezing on the outside of a vertical two-phase closed thermosiphon. Gu, W.B., et al. [1996,eng] 50-6494
- Solidification and melting of water around a vertical heat transfer plate. Hirasawa, Y., et al. [1996,eng] 50-6470
- Solidification of pure liquids and liquid mixtures inside ducts and over external bodies. Fukusako, S., et al. [1994,eng] 50-2348
- Spectroscopy of deuterium oxide ice adsorbed onto a hydrocarbon. Engquist, I., et al. [1995,eng] 50-1855
- Spectroscopy of deuterium oxide ice desorption and substrate wettability. Engquist, I., et al. [1995,eng] 50-1570
- Spectroscopy of ice clathrate decomposition to air bubbles. Pauer, F., et al. [1996,eng] 50-3067
- Structures and phase transitions of amorphous ices. Okabe, I., et al. [1996,eng] 50-5103
- Study on the behaviour of the direct contact melting under unsteady condition. Saito, A., et al. [1996,eng] 50-6449
- Supercooled liquids. Mohanty, U., [1995,eng] 50-1405
- Supercooling and the Mpemba effect: when hot water freezes quicker than cold. Auerbach, D., [1995,eng] 50-5706
- Surface layers on ice. Knight, C.A., [1996,eng] 50-6058
- Tectonic significance of alpine eclogites. Spalla, M.L., et al. [1996,eng] 50-5572
- Thermal conductivity of normal and deuterated tetrahydrofuran clathrate hydrates. Andersson, O., et al. [1996,eng] 50-2719
- Thermal equilibrium in freezing unsaturated porous media. Tao, Y.X., et al. [1993,eng] 50-3362
- Thermal investigation of crystal nucleation from a supercooled liquid. Mu, R., et al. [1996,eng] 50-4354
- Thermal performance of a planar latent heat storage unit for load shifting. Laouadi, A., et al. [1996,eng] 50-6468
- Thermal stability of the freezing front in porous media such as soils. Bronfenbrener, L., et al. [1996,eng] 50-6479
- Thermodynamic analysis of the influence of electric fields on frost formation. Ma, H.B., et al. [1995,eng] 50-2156
- Thermodynamic theory of supercooled liquids. Kivelson, D., et al. [1995,eng] 50-943
- Use of fractal parameters to detect active layer heat transfer. Hinkel, K.M., et al. [1995,eng] 50-1138
- Use of thermal analysis in the development of a better understanding of frozen food stability. Goff, H.D., [1995,eng] 50-3357
- Vitrification of articular cartilage by high-pressure freezing. Suder, D., et al. [1995,eng] 50-6589
- Water movement in wet snow. Gray, J.M.N.T., [1996,eng] 50-3727
- X-ray and neutron scattering studies of the structure of water at a hydrophobic surface. Bellissent-Funel, M.C., et al. [1996,eng] 50-5713

See [also]: Solid phases

Phenology

- Afforestation of larch in autumn. Wang, T.X., et al. [1991,chi] 50-5847
- Arctic and alpine biodiversity: patterns, causes and ecosystem consequences. [1995,eng] 50-3888
- Collected papers on forest management in the cold temperate zone. Lou, Y.H., ed. et al. [1991,chi] 50-5839
- Dendroecology of red spruce decline. Cook, E.R., et al. [1992,eng] 50-4054

Photochemical reactions

- Frost damage to northern trees during climatic warming. Hänninen, H., [1996,eng] 50-6631
- Frost hardiness of 16 European provenances of sessile oak growing in Scotland. Deans, J.D., et al. [1996,eng] 50-4329
- Herb reproductive timing in relation to snow conditions. Morton, M.L., [1994,eng] 50-1542
- High altitude forests with special reference to timber line in Kumaun, central Himalaya. Rawal, R.S., et al. [1994,eng] 50-5434
- Little Ice Age temperature estimated by arctic heather growth variations. Haverström, M., et al. [1995,eng] 50-1121
- Meadow ecology in the polar Urals, Russia. Gorchakovskii, P.L., et al. [1996,eng] 50-5482
- Micrometeorological effects on alpine vegetation reproduction. Bergman, P., et al. [1996,eng] 50-5494
- Perspectives of plant cold tolerance: physiology and molecular responses. Kaye, C., et al. [1995,eng] 50-4085
- Phenotypic plasticity in leaves of four species of arctic *Festuca* (Poaceae). Ramesar-Fortner, N.S., et al. [1995,eng] 50-3301
- Population biology of Mount Kenya lobelias. Young, T.P., [1994,eng] 50-3057
- Potential climatic change effects on western Canadian forests. Burton, P.J., et al. [1995,eng] 50-769
- Problems of natural reforestation of Dahurian larch (*Larix gmelinii*). Lou, Y.H., [1991,chi] 50-5842
- Response functions of tree-ring chronologies in western Tianshan Mountains. Yuan, Y.J., et al. [1995,chi] 50-5626
- Seed germination and seedling growth of *Carex doerflerii* growing on alpine zone of Mt. Fuji. Kibe, T., et al. [1993,eng] 50-956
- Seed rain, seedling establishment and clonal growth strategies on a glacier foreland. Stocklin, J., et al. [1996,eng] 50-5295
- Steep latitudinal gradient of solar ultraviolet-B radiation in the arctic-alpine life zone. Caldwell, M.M., et al. [1980,eng] 50-1410
- Study on predicting the fruit bearing patterns of Dahurian larch. Liu, X.T., et al. [1991,chi] 50-5840
- Study on shortening the seedling growing period for Dahurian larch (*Larix gmelinii*). Zhang, W.Y., [1991,chi] 50-5841
- Tree seedling and krummholz growth in the forest tundra of Rocky Mountain National Park. Weisberg, P.J., et al. [1995,eng] 50-72
- Wild flowering plants of the Greater Khingan Range and their value for park projects. Lu, Z., et al. [1991,chi] 50-5852
- Phosphorus cycle**
See [also]: Nutrient cycle
- Photochemical reactions**
Adsorption and photochemistry of dinitrogen tetroxide on low temperature ice layers. Rieley, H., et al. [1996,eng] 50-4295
- Alcohols in interstellar ice mantles. Charney, S.B., et al. [1995,eng] 50-5101
- ALOMAR—a new facility for middle atmosphere research at arctic latitudes. Thrane, E.V., et al. [1995,eng] 50-4261
- Arctic and antarctic ozone depletion inferred from radiometric soundings. MacKenzie, I.A., et al. [1996,eng] 50-5768
- Arctic ozone hole—a myth or a possibility. Singh, O.N., et al. [1995,eng] 50-4529
- Artifact peroxides produced during cryogenic sampling of ambient air. Stauffach, T., et al. [1995,eng] 50-1187
- Bromine-chlorine coupling in the antarctic ozone hole. Danilin, M.Y., et al. [1996,eng] 50-3065
- Calculations of ozone destruction during the 1988/89 arctic winter. McKenna, D.S., et al. [1990,eng] 50-6025
- Chlorine budget of the lower polar stratosphere. Shindell, D.T., et al. [1995,eng] 50-3091
- Chlorine monoxide in the antarctic spring vortex. pt.2. Shindell, D.T., et al. [1996,eng] 50-3018
- Climatic implications of solar modulation of cosmogenic isotopes in antarctic ice cores. Steig, E.J., et al. [1996,eng] 50-3549
- Climatology of high-latitude air pollution as illustrated by Fairbanks and Anchorage, Alaska. Bowling, S.A., [1986,eng] 50-4910
- CO₂ exchange in some vascular plants inhabiting the polar Urals. Gerasimenko, T.V., et al. [1996,eng] 50-6757
- Cold acclimation of arctic grass photosynthetic apparatus. Koroleva, O.I.A., [1996,eng] 50-6755
- Comment on paper by Chipperfield et al. Schiller, C., et al. [1996,eng] 50-5462
- Condensation of cometary ice analogs. Patnaik, A., et al. [1996,eng] 50-6222
- Dynamical influences on the antarctic ozone hole. Harvey, M.W., et al. [1996,eng] 50-6648
- Effects of enhanced UV-B radiation on the growth of dwarf shrubs in a subarctic heathland. Johanson, U., et al. [1995,eng] 50-3618
- Electron-beam-induced amorphization of ice III or IX obtained by high-pressure freezing. Sartori, N., et al. [1996,eng] 50-6531
- Electron-stimulated dissociation of amorphous ice. Kimmel, G.A., et al. [1995,eng] 50-2160
- Equilibrium constant for the reaction of ClO + O₂ ↔ ClO₂. Demore, W.B., [1990,eng] 50-4732
- Fluorescence spectra and lifetime of 2-naphthol in H₂O- and D₂O-ice(I_h) single crystal. Ping, Q., et al. [1995,eng] 50-2161
- Formation of amino acid precursors in cometary ice environments by cosmic radiation. Kobayashi, K., et al. [1995,eng] 50-652
- Formation of organic molecules in astronomical ices. Schutte, W.A., [1995,eng] 50-653

Photogrammetric surveys

Photosynthesis

- Freeze-thaw effects on photoproduction of hydrogen peroxide in cloud waters. Arakaki, T., et al. [1995,eng] 50-1969
- Heterogeneous atmospheric bromine chemistry. Lary, D.J., et al. [1996,eng] 50-3019
- Heterogeneous chemistry of polar stratospheric clouds. Mather, J.H., et al. [1990,eng] 50-4726
- Impact of heterogeneous reactions on stratospheric chemistry of the Arctic. Douglass, A.R., et al. [1989,eng] 50-4708
- In situ measurements of BrO in the arctic stratosphere. Toohy, D.W., et al. [1990,eng] 50-6015
- Infrared spectroscopy of organics of planetological interest at low temperatures. Khanna, R.K., [1995,eng] 50-656
- Interpretation of nitric oxide profile observed in January 1992 over Kiruna. Kondo, Y., et al. [1996,eng] 50-6637
- Ion irradiation of astrophysical ices. Strazzulla, G., et al. [1995,eng] 50-3022
- Kinetic measurements of the $\text{ClO} + \text{O}_3 \rightarrow \text{ClOO} + \text{O}_2$ reaction. Stevens, P.S., et al. [1990,eng] 50-4727
- Loss of ozone in the arctic vortex for the winter of 1989. Salawitch, R.J., et al. [1990,eng] 50-6027
- Low-temperature photochemistry of submicrometer nitric acid and ammonium nitrate layers. Koch, T.G., et al. [1996,eng] 50-6682
- Measurements of nitrogen oxides in the Arctic. Homrath, R.E., et al. [1990,eng] 50-6028
- Meteorites as time markers on antarctic blue ice fields. Benoit, P.H., [1995,eng] 50-1408
- Model calculations of ozone depletion in the arctic polar vortex for 1991/92 to 1994/95. Chipperfield, M.P., et al. [1996,eng] 50-3551
- Nitric oxide measurements in the arctic winter stratosphere. Fahey, D.W., et al. [1990,eng] 50-6010
- Numerical modeling of heterogeneous ozone depletion in polar stratospheric clouds. Smyshlyayev, S.P., [1994,eng] 50-2109
- O_2 on Ganymede: spectral characteristics and plasma formation mechanisms. Calvin, W.M., et al. [1996,eng] 50-4256
- Observation of a new absorption band of HOBr and its atmospheric implications. Barnes, R.J., et al. [1996,eng] 50-3968
- Organic compounds produced by photolysis of simulated cometary ices. Bernstein, M.P., et al. [1995,eng] 50-2724
- Origin of tropospheric ozone at remote high northern latitudes in summer. Mauzerall, D.L., et al. [1996,eng] 50-3449
- Photochemistry of chlorine dioxide in ice. Pursell, C.J., et al. [1995,eng] 50-154
- Photochemistry of Triton's atmosphere and ionosphere. Krasnopolsky, V.A., et al. [1995,eng] 50-2121
- Photodissociation of condensed films of chlorine dioxide. Lanzendorf, E.J., et al. [1996,eng] 50-6679
- Photooxidants in the marine arctic troposphere in summer. Weller, R., et al. [1996,eng] 50-5255
- Polar stratospheric cloud event of January 24: part 2, photochemistry. Jones, R.L., et al. [1990,eng] 50-6022
- Polar stratospheric cloud event, 1989, pt.1. Poole, L.R., et al. [1990,eng] 50-6021
- Polar stratospheric radiation absorption measurements, pt.3. Wahner, A., et al. [1990,eng] 50-6016
- Preliminary results from POAM II: stratospheric ozone at high northern latitudes. Randall, C.E., et al. [1995,eng] 50-1213
- Pressure dependence of the reaction between ClO and ClO at 226K. Parr, A.D., et al. [1990,eng] 50-4733
- Production and chemical analysis of cometary ice tholins. McDonald, G.D., et al. [1996,eng] 50-5833
- Radiation-induced polymerization in high pressure ice. Kirinukhin, D.P., et al. [1995,eng] 50-415
- Reactivity of imidazoles in pulse and γ -irradiated liquid and frozen systems. Kalecińska, E., et al. [1996,eng] 50-3527
- Reconstructed model of trace gases vertical distribution. Karol, I.L., et al. [1995,eng] 50-625
- Relationship between atmospheric circulation and antarctic ozone depletion. Butchart, N., et al. [1996,eng] 50-3963
- Reversible photoinhibition in antarctic moss during freezing and thawing. Lovelock, C.E., et al. [1995,eng] 50-2854
- Scavenging of electrons and radicals in frozen chloride-alcohol glasses. Kalecińska, J., [1996,eng] 50-3526
- Seasonal cycle of $\text{C}_2\text{-C}_5$ hydrocarbons over the Baltic Sea and northern Finland. Laurila, T., et al. [1996,eng] 50-5607
- Simulating the evolution of the chemical composition of the 1988/89 winter vortex. Jones, R.L., et al. [1990,eng] 50-6024
- Simulation of arctic stratospheric response to aerosol perturbations. Zhao, X.P., et al. [1996,eng] 50-6680
- Simulation of extraterrestrial ice radiation absorption properties. Schutte, W.A., et al. [1995,eng] 50-3023
- Sources of organic carbon aerosols in the arctic atmosphere. Kawamura, K., et al. [1996,eng] 50-5611
- Spaceborne observation of atmospheric precursors to polar stratospheric cloud formation. Geller, M.A., et al. [1995,eng] 50-4539
- Spectrometry of frozen organic surface ionization. Betts, R.L., et al. [1995,eng] 50-657
- Spectroscopic damage to hydrated specimens in vitreous ice. Leapman, R.D., et al. [1995,eng] 50-1648
- Spectroscopy of photolysis in frozen solution systems. Yamachi, S., et al. [1993,eng] 50-1467
- Stratospheric constituent trends from ER-2 profile data. Schoberl, M.R., et al. [1990,eng] 50-6005
- Surface spectrometry of arctic seasonal atmospheric ozone variations. Pommereau, J.P., et al. [1988,eng] 50-4636
- Ultraviolet photodesorption from water ice. Westley, M.S., et al. [1995,eng] 50-3024
- Ultraviolet radiation effects on arctic lake water organic chemistry. Scully, N.M., et al. [1996,eng] 50-5820
- Zonal asymmetries in simulation of arctic stratospheric ozone. Isaksen, I.S.A., et al. [1990,eng] 50-6026
- Photogrammetric surveys**
- Cheap, quick and safe way of surveying glaciers. Wright, J.W., et al. [1995,eng] 50-2995
- Ice flow vectors on the debris-mantled Tasman Glacier, 1957-1986. Kirkbride, M., [1995,eng] 50-2717
- Photogrammetry and geomorphology of high arctic push moraines. King, L., et al. [1993,eng] 50-1673
- Repeat photography and landscape change at Glacier Bay, 1879-1993. Lawrence, D.B., et al. [1995,eng] 50-3742
- Utility of imaging spectrometry for lithologic mapping in Greenland. Rivard, B., et al. [1992,eng] 50-1651
- Photogrammetry**
- Accuracy of SPOT digital elevation model and derivatives: utility for Alaska's North Slope. Sasowsky, K.C., et al. [1992,eng] 50-1448
- Geodetic support for Spitsbergen expedition. Rawiel, P., et al. [1994,ger] 50-1576
- Mass exchange between meltwater streams and proglacial deposits. Holmlund, P., et al. [1996,eng] 50-6241
- Source of errors in surface area measurements of glacier mass balance. Jacobsen, F.M., et al. [1995,eng] 50-1865
- Topographic and thematic maps of the Spitsbergen Expedition, 1990-1992. Brunner, K., et al. [1994,ger] 50-1575
- Using multiple data sources to enhance photogrammetry for mapping antarctic terrain. Fox, A.J., [1995,eng] 50-5536
- Velocity measurement of glacial flow with aerial photogrammetry. Hofmann, W., [1958,ger] 50-5078
- Photographic reconnaissance**
- Tests of electro-optic sensors in smoke and obscurants. Quebec, Feb-Mar. 1989. Kennedy, B.W., et al. [1990,eng] 50-736
- Video monitoring of atmospheric icing. Wareing, J.B., et al. [1995,eng] 50-204
- Photographic techniques**
- Cheap, quick and safe way of surveying glaciers. Wright, J.W., et al. [1995,eng] 50-2995
- Imaging techniques for mapping the surface velocities of a dense snow avalanche. Granada, F., et al. [1995,fre] 50-4651
- Interface location and flow visualization in water-ice systems. Elkouh, N., et al. [1996,eng] 50-6459
- New method for measuring snow crystals (snow crystal measuring system). Kikuchi, K., et al. [1982,eng] 50-5798
- Repeat photography and landscape change at Glacier Bay, 1879-1993. Lawrence, D.B., et al. [1995,eng] 50-3742
- Photography**
- Borehole video analysis of subglacial flow and structure. Harper, J.T., et al. [1995,eng] 50-1100
- Flow-finger continuity in serial thick-sections in a melting Sierran snowpack. McGurk, B.J., et al. [1995,eng] 50-2401
- See [also]: Infrared photography; Oblique photography; Radar photography; Spaceborne photography; Stereophotography
- Photointerpretation**
- Application of air photo to the analysis of ground ice. Liang, F.X., et al. [1989,chi] 50-1356
- Avalanche mapping and related G.I.S. applications in the Catalan Pyrenees. Purrada, G., et al. [1995,eng] 50-1061
- Cheap, quick and safe way of surveying glaciers. Wright, J.W., et al. [1995,eng] 50-2995
- Differentiation of neotectonic movements in western Sørkapp Land (Spitsbergen). Szczepny, R., [1993,eng] 50-2211
- Distribution and biomass of Greenland shelf epibenthic megafauna. Piepenburg, D., et al. [1996,eng] 50-5045
- Evaluating snow cover depth in a mountain basin from satellite information. Pichugina, E.L., et al. [1991,rus] 50-4
- First observational evidence for condensation of I_2 SO_2 atmosphere on the nightside. Buratti, B.J., et al. [1995,eng] 50-2154
- Ice dynamics in the south-western Laptev Sea as derived from ERS-1 SAR images. Kolatschek, J., et al. [1995,eng] 50-2063
- Mapping tide-water glacier dynamics in East Greenland using Landsat data. Dwyer, J.L., [1995,eng] 50-1879
- Method of interpreting rock streams from aerial photographs (AFS). Ryzhikh, A.M., et al. [1993,rus] 50-116
- Photo-registration of pre- and post-breakdown situations in oil pipelines in Siberia. Eliseev, I.V.B., [1996,rus] 50-6858
- Processing satellite images to determine snow cover depth. Pichugina, E.L., [1991,rus] 50-3
- Rowe Glacier—annual research report 1993. Scott, R.B., [1994,eng] 50-5547
- Topographic origin for double-ridge features in visible imagery of ice divides in Antarctica. Goodwin, A.H., et al. [1995,eng] 50-1870
- Using satellite photography in geoecological studies in the cryolithosphere. Gavrilov, A.V., et al. [1996,rus] 50-6857
- See [also]: Geobotanical interpretation
- Photometric analysis**
- See [also]: Photometry
- Photometry**
- Background stratospheric aerosol and polar stratospheric cloud reference models. McCormick, M.P., et al. [1996,eng] 50-6712
- Cloud attenuation of ultraviolet radiation in alpine regions. Blumhauer, M., et al. [1996,eng] 50-3610
- Denitrification of the polar winter stratosphere. Hamill, P., et al. [1990,eng] 50-6000
- Downwelling radiation fluxes at the arctic surface based on parameterizations. Silcox, R.A., [1994,eng] 50-5303
- First observational evidence for condensation of I_2 SO_2 atmosphere on the nightside. Buratti, B.J., et al. [1995,eng] 50-2154
- Fluorimetric assessment of bacteria after freeze-thawing. Puchkov, E.O., et al. [1995,eng] 50-5865
- Hoods, mists, frosts, and ice caps at the poles of Mars. Dollfus, A., et al. [1996,eng] 50-5194
- Light scattering effects on cloud thickness photometry. Zege, E.P., et al. [1994,eng] 50-2710
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995,eng] 50-1866
- On the particle characteristics of PSCs inferred from polarimetric experiment. Maslowska, A., et al. [1994,eng] 50-1114
- Periodic auroral events at the high-latitude convection reversal in the 16 MLT region. Sandholt, P.E., et al. [1990,eng] 50-4729
- Photometry of Mt. Pinatubo aerosols at Spitsbergen. Beyerle, G., et al. [1995,eng] 50-1183
- Polar Ozone and Aerosol Measurement instrument. Glacum, W., et al. [1996,eng] 50-5765
- SAGE II observations of polar stratospheric clouds near 50°N January 31-February 2, 1989. Pitts, M.C., et al. [1990,eng] 50-5994
- SAM II aerosol measurements during the 1989 AASE. Osborn, M.T., et al. [1990,eng] 50-5992
- SAM II and lidar aerosol profile comparisons during AASE. Osborn, M.T., et al. [1990,eng] 50-5993
- Satellite monitoring of antarctic stratosphere volcanic aerosols. Saxena, V.K., et al. [1995,eng] 50-591
- Spectral albedos of Charon's surface composition. Roush, T.L., et al. [1996,eng] 50-4002
- Spectral quality and absorption of solar radiation in a mountain birch forest, Abisko, Sweden. Ovsted, M., et al. [1995,eng] 50-2813
- Spectrometric detection of chloride ions in snow. Vanchikova, E.V., et al. [1995,eng] 50-3791
- Ultraviolet (A) and short-wave radiation on the Juneau icefield, Alaska. Quakenbush, T., et al. [1992,eng] 50-363
- Volcanic perturbation of the atmosphere in both polar regions: 1991-1994. Herber, A., et al. [1996,eng] 50-3444
- Photosynthesis**
- Acclimation of tree function and structure to climate change and implications to forest carbon balance. Hari, P., et al. [1994,eng] 50-3204
- Arctic plant chloroplast adaptation to low temperatures. Miroslavov, E.A., et al. [1996,eng] 50-6756
- Biology of high latitude kelp. Dunton, K.H., et al. [1995,eng] 50-4139
- Carbon and water in polar lichens. Kappen, L., et al. [1995,eng] 50-3782
- Carotenoid composition and down regulation in three conifers. Adams, W.W., III, et al. [1995,eng] 50-1137
- Characteristics of the photosynthetic apparatus of plants. Pankov, V.I., et al. [1995,rus] 50-4107
- Chlorophyll distribution in a body of fresh water covered with ice. Zavoruev, V.V., et al. [1996,eng] 50-5816
- Chlorophyll fluorescence as measure of Douglas fir cold hardiness. Fisker, S.E., et al. [1995,eng] 50-1287
- Chlorophyll fluorescence as spruce frost hardiness indicator. Binder, W.D., et al. [1996,eng] 50-6519
- Climate change and the ecophysiological response of Arctic lichens. Nash, T.H., III, et al. [1995,eng] 50-3784
- CO_2 exchange in some vascular plants inhabiting the polar Urals. Gerasimenko, T.V., et al. [1996,eng] 50-6757
- Cold acclimation of arctic grass photosynthetic apparatus. Koroleva, O.I.A., [1996,eng] 50-6755
- Constraints on primary productivity in the coastal temperate forests of the Americas. Wareing, R.H., et al. [1996,eng] 50-4062
- Ecophysiology of a snow-bed moss during snowmelt. Woolgrove, C.E., et al. [1996,eng] 50-6748
- Effect of climatic change on photosynthesis, respiration and transpiration of Scots pine. Laitinen, K., [1994,eng] 50-3210
- Effects of dehydration and freezing stress on brown algae. Pearson, G.A., et al. [1995,eng] 50-1523
- Effects of elevated N-input and CO_2 on *Sphagnum* with different trophic level. Jauhainen, J., et al. [1994,eng] 50-3214
- Evergreen shrub leaf variations in taiga and tundra landscapes. Kudo, G., [1995,eng] 50-2732
- Fall phytoplankton biomass, P-I relationships and primary production in the Weddell Sea. Dower, K.M., et al. [1996,eng] 50-4008
- Grass photosynthesis variations under cold climatic conditions. Siurkina, A.V., et al. [1996,eng] 50-6754
- Growth responses of an alpine grassland to elevated CO_2 . Schappi, B., et al. [1996,eng] 50-5771
- Latitude as a factor in the calculation of primary production. Platt, T., et al. [1995,eng] 50-4129
- Latitudinal effect of UV-B and CO_2 on lichens. Sonesson, M., et al. [1995,eng] 50-3783
- Microalgal light-harvesting in McMurdo Sound. Robinson, D.H., et al. [1995,eng] 50-106
- Primary productivity and microbial variations in the Chukchi Sea. Cota, G.F., et al. [1996,eng] 50-5457
- Response of boreal forest ecosystems to climatic change and its silvicultural implications: modelling. Kellomäki, S., et al. [1994,eng] 50-3209

Physical properties

- Seasonal changes in photosystem II organisation and pigment composition in *Pinus sylvestris*. Otander, C., et al. [1995.eng] 50-1130
- Seasonal variations in frost tolerance and sugar content of two *Plagiomnium* species. Rütten, D., et al. [1993.eng] 50-6524
- Snow algae microbiology related to ultraviolet radiation effects. Thomas, W.H., et al. [1995.eng] 50-2814
- Spectral quality and absorption of solar radiation in a mountain birch forest, Abisko, Sweden. Ovsted, M., et al. [1995.eng] 50-2813
- Sphagnum photosynthesis and primary production in arctic Alaska. Murray, K.J., [1994.eng] 50-689
- Study of Bering Sea primary productivity. Sapozhnikov, V.V., et al. [1995.eng] 50-6687
- Ultraviolet radiation effects on phytoplankton during ozone depletion. Villafañe, V.E., et al. [1994.eng] 50-4243
- Ultraviolet sunlight reaching the Earth's surface. Frederick, J.E., [1993.eng] 50-1326
- Ultraviolet-B radiation and photosystem II activity in antarctic ice algae. Schofield, O., et al. [1995.eng] 50-2573
- UV radiation effects on aquatic organisms. Holm-Hansen, O., et al. [1993.eng] 50-1325
- Vertical light attenuation by phytoplankton absorption in the Greenland Sea. Dalseth, R., et al. [1995.eng] 50-4131
- Water in lichens at subzero temperatures. Schroeter, B., et al. [1995.eng] 50-2842

Physical properties

- Acoustics probe sea-ice mechanics. Rajan, S.D., [1996.eng] 50-6675
- Antarctic ice sheet. Drewry, D.J., [1996.eng] 50-4976
- Assembly for studying physical processes during drilling. Antipin, I.N., et al. [1992.rus] 50-796
- Compacted snow road. 1. Properties of snow. Eriksson, R., [1959.eng] 50-3853
- Design of ice booms. Foltyn, E.P., et al. [1996.eng] 50-6068
- Drilling smaller surface holes results in substantial cost savings. Krawietz, T.E., et al. [1991.eng] 50-1739
- Englacial drainage influence on sediment transport pathways. Kirkbride, M., et al. [1996.eng] 50-6255
- Freeze-thaw durability testing of oversanded bridge floor concrete. Quyang, C.S., [1995.eng] 50-4949
- Frost resistance of roller-compacted high-volume fly ash concrete. Pigeon, M., et al. [1995.eng] 50-1466
- Geometry of heat and mass transfer in dry snow: a review of theory and experiment. Arons, E.M., et al. [1995.eng] 50-1401
- Implications of glacial deposit physical properties for radiocarbon dating. Karrow, P.F., [1992.eng] 50-2563
- Inherent variability of frost heave specimens. Nicholls, R.A., [1977.eng] 50-2319
- Mesomorphic soil formation in the cryogenic taiga semihumid sector of central Siberia. Ershov, I.U., [1995.eng] 50-2146
- New lightweight technology for the primary cementing of oil-field casings in cold environments. Harris, K.L., [1991.eng] 50-1705
- New salting methods on UK highways. Cruickshank, J., [1996.eng] 50-4366
- Observations of the grounding-line area at a floating glacier terminus. Powell, R.D., et al. [1996.eng] 50-6264
- Protection against chloride-induced corrosion. Berke, N.S., et al. [1988.eng] 50-4229
- Relict sorted patterned ground in Rostu, northernmost Sweden. Kling, J., [1996.eng] 50-5581
- Review of sea ice density. Timco, G.W., et al. [1996.eng] 50-3823
- Role of principles and methods in loess-paleosol investigations. Péczi, M., [1995.eng] 50-1035
- Snow. Colbeck, S.C., [1996.eng] 50-4614
- Soil geomorphology on Alaskan permafrost terrain. Swanson, D.K., [1996.eng] 50-6518
- Soil polygenesis as a function of Quaternary climate change, northern Great Basin, USA. Chadwick, O.A., et al. [1995.eng] 50-1831
- Sources of variability in a constant boundary temperature frost heave test. Lomas, K.J., [1981.eng] 50-2143
- Stability of sublittoral, fine-grained sediments in a subarctic estuary. Amos, C.L., et al. [1996.eng] 50-4044
- Surface morphology and backscattering of ice-ridge sails in the Baltic Sea. Manninen, B.T., [1996.eng] 50-4899
- Thickness of summer Arctic Ocean multiyear ice. Eicken, H., et al. [1995.eng] 50-2112
- Thixotropic, crosslinking polymer/borate/salt plug: development and application. Powell, J.W., et al. [1991.eng] 50-1707
- What you need to know about prewetting deicers. Mergenmeier, A., [1995.eng] 50-3857
- See [also]: Atmospheric physics; Frozen ground physics; Ice physics; Permafrost physics; Snow physics; Soil physics

Physiological effects

- Analysis of DDT, DDE and PCBs in the blood of *Pygoscelis* of Antarctica. Yang, H.F., et al. [1989.chi] 50-6776
- Atmospheric deposition and pollutant exposure of eastern U.S. forests. Mohnen, V.A., [1992.eng] 50-4052
- Atmospheric deposition effects on foliar injury and foliar leaching in red spruce. Schier, G.A., et al. [1992.eng] 50-4056
- Biochemistry of bacterial ice nuclei. Fall, R., et al. [1995.eng] 50-3274
- Biological control of insect pests using ice-nucleating microorganisms. Lee, R.E., Jr., et al. [1995.eng] 50-3284
- Biological ice nucleation and its applications. Lee, R.E., Jr., ed. et al. [1995.eng] 50-3270

- Climate change and the ecophysiological response of Arctic lichens. Nash, T.H., III, et al. [1995.eng] 50-3784
- Danger by the numbers—meaningful cold weather indicators. Shacham, M., et al. [1995.eng] 50-1646
- Discovery of bacterial ice nucleation and its role in the injury of plants by frost. Upper, C.D., et al. [1995.eng] 50-3272
- Ecology of ice nucleation-active bacteria. Hirano, S.S., et al. [1995.eng] 50-3273
- Effect of deicers on roadside trees in Hokkaido. Miyamoto, S., et al. [1995.jpn] 50-6788
- Effect of salinity on oxygen metabolism of copepods in a salt lake. Wang, Z.P., [1989.chi] 50-6778
- Effects of air pollution on carbon allocation in red spruce. McLaughlin, S.B., et al. [1992.eng] 50-4058
- Effects of deicing salt on vegetation along highways in Sweden. Bäckman, L., et al. [1995.eng] 50-4602
- Environmental effects of the *Anisio Gramsci* oil spill in 1987. Hirvi, J.P., [1990.eng] 50-469
- Experimental study of skiing turns. pt.3. Sahashi, T., et al. [1996.eng] 50-5919
- Fatty acid adaptation in an antarctic bacterium—changes in primer utilization. Nichols, D.S., et al. [1996.eng] 50-4797
- Impact of deicing chemicals on plants in Hokkaido. Miyamoto, S., et al. [1994.jpn] 50-2828
- Isotopic tracers for investigating hydrological processes. Cooper, L.W., et al. [1996.eng] 50-4846
- Latitudinal variations in lichen biology. Schipperges, B., et al. [1995.eng] 50-3781
- Meaningful wind chill indicators derived from heat transfer principles. Brauner, N., et al. [1995.eng] 50-1552
- Molecular studies of a winter flounder antifreeze polypeptide. McDonald, S.M., [1995.eng] 50-676
- Possible increased toxicity of automobile emissions in cold climates. Perkins, R.A., [1996.eng] 50-6137
- Role of nucleation in cryopreservation. Fahy, G.M., [1995.eng] 50-3288
- Roles of ice nucleators in cold tolerant invertebrates. Duman, J.G., et al. [1995.eng] 50-3281
- Soil-mediated effects of atmospheric deposition on eastern U.S. spruce-fir forests. Johnson, D.W., et al. [1992.eng] 50-4055
- Study on the causes and control of bitter pit in apples. Yu, Q.L., et al. [1991.chi] 50-5127
- Supercooling and ice nucleation in vertebrate ectotherms. Costanzo, J.P., et al. [1995.eng] 50-3282
- Survey of fungal plant diseases in a part of high altitudes of central Himalaya. Bisht, G.S., et al. [1994.eng] 50-5432
- Synthesis and conclusions from studies of red spruce decline. Johnson, A.H., et al. [1992.eng] 50-4059
- Thermophysiological characteristics of protective clothing for forestry workers. Meinander, H., et al. [1994.fin] 50-1093
- Tilting at wind chills. Horstmeier, S., [1995.eng] 50-1645
- Vitamin C in the prevention and treatment of frostbite. Purkayastha, S.S., et al. [1992.eng] 50-4224

Physiology

See [also]: Plant physiology

Piers

- Assessment of the design load of bridge piers constructed in rivers freezing over in winter. Yamauchi, T., et al. [1994.jpn] 50-2835
- Dynamic responses of highway bridge under shock forces of icefloe. Cai, Z.R., et al. [1995.eng] 50-192
- Experimental study on abrasion of various concretes due to ice movement. Itoh, Y., et al. [1992.eng] 50-2762
- Frost damage of concrete structures in Hokkaido. Yamashita, H., et al. [1995.eng] 50-2662
- Ice force and scour instrumentation for the White River. Vermont. Zabalsky, L.J., [1996.eng] 50-6073
- Mechanism of the abrasion of concrete structures due to the movement of ice sheets. Ito, Y., et al. [1995.eng] 50-2653
- Northumberland Strait bridge: analysis techniques and results. Ghali, A., et al. [1996.eng] 50-5046
- Predicting abrasion of bridge piers by ice. Hara, F., et al. [1995.eng] 50-2655
- Recent advances in ice interaction and force estimation processes for vertical structures. Arunachalam, A.V.M., [1995.eng] 50-197
- Repair measures for deteriorated abutments and piers due to frost damage. Tsutsumi, Y., et al. [1995.eng] 50-2659
- Structural ice control: review of existing methods. Tuthill, A.M., [1995.eng] 50-393
- Study on tangential frost heaving forces on the reinforced concrete bridge pile foundation. Dai, H.M., et al. [1989.chi] 50-1362
- Test methods for abrasion of concrete structures by ice. Hara, F., et al. [1995.eng] 50-2654
- West Dock Causeway bridge piers. Christopherson, A.B., et al. [1996.eng] 50-6133
- See [also]: Docks; Wharves

Pile driving

- Steel pipe pile foundations for school building in saline permafrost. Merrill, K.S., et al. [1996.eng] 50-6127
- Supporting permafrost bases for tower pile-drivers of vertical mine shafts while in operation. Izakson, V.I.U., et al. [1989.rus] 50-2251
- Pile load tests
- Axial loading of foundations embedded in frozen soils. Selvadurai, A.P.S., et al. [1995.eng] 50-173
- Calculating method of frost heaving reaction in seasonal frozen ground region. Zhou, Y.C., [1989.chi] 50-1366
- Determining frost heave resistance of pile foundations. Orzhikhovskii, I.U.R., et al. [1992.eng] 50-38

Pipe flow

- Driven pile capacities in warm permafrost in Komi Republic, Russia. Thompson, S.R., et al. [1996.eng] 50-6128
- Frost heaving force on foundations in seasonal frozen ground region. Xu, S.X., [1989.chi] 50-1367
- Frozen soil-structure interfaces. Ladanyi, B., [1995.eng] 50-3806
- Long-term pile load testing system performance in saline and ice-rich permafrost. Biggar, K.W., et al. [1996.eng] 50-6427
- Model pile tests in saline soils. Christopherson, A., et al. [1991.eng] 50-1719
- Permafrost foundation creep prediction from cone penetration tests. Ladanyi, B., et al. [1995.eng] 50-1825
- Piles and pile foundations under conditions of Siberia. Solov'ev, I.U.I., ed. [1994.rus] 50-5141
- Steel pipe pile foundations for school building in saline permafrost. Merrill, K.S., et al. [1996.eng] 50-6127
- Study on tangential frost heaving forces on the reinforced concrete bridge pile foundation. Dai, H.M., et al. [1989.chi] 50-1362
- Tangential frost heave forces on reinforced concrete piles. Sun, Y.L., et al. [1989.chi] 50-1363
- West Dock Causeway bridge piers. Christopherson, A.B., et al. [1996.eng] 50-6133
- Pile structures
- Discussion of paper by Biggar et al. Juárez-Badillo, E., et al. [1995.eng] 50-582
- Long-term pile load testing system performance in saline and ice-rich permafrost. Biggar, K.W., et al. [1996.eng] 50-6427
- Method for making short piles with an expanded pivot under winter conditions. Shishkov, I.U.A., [1995.rus] 50-725
- Model pile tests in saline soils. Christopherson, A., et al. [1991.eng] 50-1719
- New, low-cost, ice- and wave-resistant port facility at Nome, Alaska. Swigart, W.S., et al. [1991.eng] 50-1732
- Northumberland Strait bridge: analysis techniques and results. Ghali, A., et al. [1996.eng] 50-5046
- Offshore structure and installation method. Waddell, J.W., [1995.eng] 50-3479
- Pile bearing capacity in frozen soils. Mirenbur, I.U.S., [1996.eng] 50-6054
- Piles and pile foundations under conditions of Siberia. Solov'ev, I.U.I., ed. [1994.rus] 50-5141
- Pipe rigidity as a failure index under explosive loads. Abd El Halim, A.O., et al. [1996.eng] 50-5047
- Protection of arctic bridge crossing by refrigerated foundation. Christopherson, A.B., et al. [1991.eng] 50-1734
- Thermopiles. Garani, L.I., [1992.rus] 50-1905
- Piles
- Buildings with short piles and ventilated foundations in permafrost. Zhu, L.N., et al. [1995.chi] 50-5625
- Drifting ice forces on offshore piles. Afanas'ev, V.P., et al. [1990.eng] 50-98
- Driven pile capacities in warm permafrost in Komi Republic, Russia. Thompson, S.R., et al. [1996.eng] 50-6128
- Frost damage proofed pile. Takeda, T., et al. [1989.eng] 50-2243
- Method for making short piles with an expanded pivot under winter conditions. Shishkov, I.U.A., [1995.rus] 50-725
- Piles and pile foundations under conditions of Siberia. Solov'ev, I.U.I., ed. [1994.rus] 50-5141
- Results of experimental studies on resistance of thawing ground to a normal load. Torgashev, V.V., [1993.rus] 50-129
- Sea ice formation in Cook Inlet Alaska: a high energy environment. Nelson, W.G., [1995.eng] 50-2944
- Steel pipe pile foundations for school building in saline permafrost. Merrill, K.S., et al. [1996.eng] 50-6127
- West Dock Causeway bridge piers. Christopherson, A.B., et al. [1996.eng] 50-6133
- See [also]: Concrete piles
- Pingos
- Electrical freezing potentials measured in a pingo growing in the western Canadian Arctic. Parameswaran, V.R., et al. [1996.eng] 50-5471
- Patterned ground in the inner Woodford-area, NW Spitsbergen. Thannheiser, D., et al. [1994.ger] 50-1589
- Permafrost mounds in Lapland and Spitsbergen. Meier, K.D., [1989.ger] 50-645
- Plankton bloom in a Greenland pingo. Kristiansen, J., et al. [1995.eng] 50-366
- See [also]: Frost mounds; Hummocks
- Pipe flow
- Analysis of ice-formation in a stenotic tube. Suh, J.S., et al. [1996.eng] 50-6460
- Another look at oil transportation in and from the arctic environment. Marsden, S.S., Jr., et al. [1991.eng] 50-1711
- Development of models of freezing and convection during cryogenic pipe freezing. Keary, A.C., et al. [1996.eng] 50-6464
- Development of procedures for hot tap welding onto sour service pipelines. Felix, R.D., et al. [1991.eng] 50-1724
- Evaluation of vacuum-insulated tubing for paraffin control at Norman Wells. Purdy, I.L., et al. [1991.eng] 50-1727
- Field-tested model for freeze protection of multiphase pipelines in arctic operations. Eager, K., [1991.eng] 50-1769
- Freezing of a liquid jet on the inside surface of a cold pipe. Naraghi, M.N., [1994.eng] 50-691
- Freezing of liquids in a laminar flow in a heat flux cooled circular duct. Prasad, A., et al. [1996.eng] 50-6463
- Hydraulic conveying of snow and ice. (3): measurement of pipe flow. Shirakashi, M., et al. [1996.jpn] 50-4934
- Injection profiling in the Kuparuk River Field, Alaska. Scott, H.D., et al. [1991.eng] 50-1741

Pipe laying

- Pitorifices and small pumps in cold region water distribution systems. Mauser, M.W., [1995,eng] 50-5667
 Review of dynamical studies on hydraulic transportation of snow. Umemura, T., [1996,jpn] 50-6731
 Wellbore multiphase-flow correlation for the eastern operating area of Prudhoe Bay. Bradley, D.A., [1991,eng] 50-1728

Pipe laying

- "Frozen" flowline reduces strain on pipe wall during tow-out. [1996,eng] 50-4148
 Arctic pipelines get to grips with scour. [1990,eng] 50-5587
 Calculating the reliability of a pipeline base, constructed on surface foundations. Maksimenko, S., et al., [1989,rus] 50-2250
 Environmental activity management and control exercised by pipelaying association. Shishov, V.N., [1991,eng] 50-1762
 Estimation of burial depths for pipelines in arctic regions. Chouinard, L.E., [1995,eng] 50-1839
 Gas-producing units construction experience in the arctic regions. Zavizion, V.G., [1991,eng] 50-1763
 Geotechnical design of the Baydaraskaya Bay pipeline crossing. Oswell, J.M., et al., [1995,eng] 50-1777
 Laying of oil industry pipelines in permafrost conditions in Western Siberia. Karavaev, S.S., et al., [1989,rus] 50-2249
 Method of excavating in frozen ground. Mukhametdinov, Kh.K., et al., [1992,rus] 50-1944
 New challenges for the pipeline engineer in the Russian Arctic. Brown, R.J., [1995,eng] 50-212
 Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991, [1991,eng] 50-1696
 Thermal calculations for pipe laying in frozen ground. Danielian, I.U.S., et al., [1990,rus] 50-1618
 Upheaval buckling of a pipeline in an arctic environment. Quimby, T.B., et al., [1996,eng] 50-6125

Pipeline freezing

- "Frozen" flowline reduces strain on pipe wall during tow-out. [1996,eng] 50-4148
 Analysis of ice-formation in a stenotic tube. Suh, J.S., et al., [1996,eng] 50-6460
 Coil freezing: what a relief. Jacobs, T.L., [1995,eng] 50-2458
 Cold climate concerns. Part 2. Infrastructure planning and maintenance. Ryan, W.L., [1995,eng] 50-1077
 Development of models of freezing and convection during cryogenic pipe freezing. Keary, A.C., et al., [1996,eng] 50-6464
 Experiments of shallow-buried water supply pipes. Meng, F.J., [1989,chi] 50-1386
 Field-tested model for freeze protection of multiphase pipelines in arctic operations. Eager, K., [1991,eng] 50-1769
 Field-tested model for freeze protection of multiphase pipelines in arctic operations. Eager, K., [1991,eng] 50-1769
 Freezable wax plug for pipeline. [1992,eng] 50-4414
 Freezing of a liquid jet on the inside surface of a cold pipe. Naraghi, M.N., [1994,eng] 50-691
 Groundwater flow and heat conduction in soil around a freeze pipe. Hashemi, H.T., et al., [1996,eng] 50-6606
 Heat flux monitoring during cryogenic pipe freezing: a case study. Tavner, A.C.R., et al., [1996,eng] 50-5477
 Investigation of the stress development during cryogenic pipe freezing. Keary, A.C., et al., [1996,eng] 50-6438
 Subsea pipe freeze first on East Brae. [1993,eng] 50-5441
 Temperatures and stresses in frost susceptible soil around a chilled pipeline. Coutts, R.J., [1991,eng] 50-70
 Thermal impact of a buried chilled gas pipeline. Raad, L., et al., [1996,eng] 50-6124
 Using district heating pipes for freeze protection of sewer pipes. Reeve, H.E., et al., [1996,eng] 50-6440

Pipeline insulation

- A first for Russia: thermoshrink tape for pipelines. Rastrigin, I.I., et al., [1995,rus] 50-2519
 Ardalin field flows despite weather, terrain. Britton, M.W., et al., [1995,eng] 50-4396
 Polymer composition for plastic material. Lerner, B.Sh., et al., [1992,rus] 50-1939

Pipeline supports

- Calculating the reliability of a pipeline base, constructed on surface foundations. Maksimenko, S., et al., [1989,rus] 50-2250
 Corrosion control paints for steel pipeline supports in cold regions. Nakamura, Y., et al., [1996,eng] 50-6121

Pipelines

- A first for Russia: thermoshrink tape for pipelines. Rastrigin, I.I., et al., [1995,rus] 50-2519
 Alaska pipeline oil spill contingency plan. Alyieska Pipeline Service Company, Anchorage, AK, [1991,eng] 50-850
 Analysis of the Komi-neft pipeline oil. Lambert, P., et al., [1995,eng] 50-5734
 Calculating complex forms of pipeline icing. Popov, I.U.A., et al., [1995,rus] 50-3441
 Cleanup assessment of the pipeline oil spill on the Kova River. Sienkiewicz, A.M., et al., [1996,eng] 50-5570
 Device for protecting a pipeline from freezing. Diachenko, K.S., et al., [1992,rus] 50-1916
 Energy flow to arctic tundra surface and experiences of induced disturbances. Ryden, B.E., [1993,eng] 50-2209
 Environmental research project for Yamburg gas fields. Chlenov, A.V., [1991,eng] 50-1766
 Environmental safety of construction of gas and oil facilities in arctic regions. Mazur, I.I., et al., [1991,eng] 50-1764
 Fate of oil determinations under arctic conditions: the Komi pipeline oil spill experience. Nadeau, R.J., et al., [1995,eng] 50-5732
 Freezable wax plug for pipeline. [1992,eng] 50-4414
 Future of oil and gas in northern Alaska. Bird, K.J., et al., [1995,eng] 50-5642

- How the Arctic's top field will be developed. [1987,eng] 50-4287
 Komi oil spill—an assessment by a multi-national team. Devens, P.K., [1995,eng] 50-5731

- Large volume oil spill on land surface: the Vozey oil field, Russia. Zoltai, S.C., et al., [1995,eng] 50-5733
 Laying of oil industry pipelines in permafrost conditions in Western Siberia. Karavaev, S.S., et al., [1989,rus] 50-2249
 Logistics in arctic corrosion control. Dart, T.R., [1996,eng] 50-5949

- Manufacture and installation of duplex stainless steel line pipe for arctic application. Noble, D.N., [1996,eng] 50-5957
 New challenges for the pipeline engineer in the Russian Arctic. Brown, R.J., [1995,eng] 50-212
 Northern Gateway Oil Terminal Study: phase I. Vikhamar, T.K., et al., [1995,eng] 50-211

- Overview of pipelines in Russian cold regions. Ivantsov, O.M., [1995,rus] 50-2520
 Overview of the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Hartley, A.E., Sr., [1996,eng] 50-5568
 Parameterizing environmental assessments for oil and gas facility construction. Semenov, L.P., [1991,eng] 50-1765

- Permafrost and climate change: geotechnical implications. Williams, P.J., [1995,eng] 50-5238
 Photo-registration of pre- and post-breakdown situations in oil pipelines in Siberia. Eliseev, I.U.B., [1996,rus] 50-6858
 Problem of plastic pipeline construction in the oil and gas industry. Zaitsev, K.I., [1995,rus] 50-1076

- Recent advances in pipeline route selection and cost estimating methodology for arctic pipelines. Kreig, R.A., et al., [1990,eng] 50-1667
 Reserves of heat supply systems. Salina, S.F., [1992,rus] 50-707

- Response operations on the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Stillings, W.I., [1996,eng] 50-5569
 Specifying fracture toughness ranks high in line pipe selection. Kiefner, J.F., et al., [1995,eng] 50-4397

- Technological effects on tundra ecosystems and the recultivation of disturbed territory. Sumina, O.I., [1992,rus] 50-3406
 Terrain performance. Norman Wells oil pipeline, Northern Canada. Harry, D.G., [1990,rus] 50-1625

- Use of acrolein as a hydrogen sulfide scavenger in multiphase production. Howell, J.J., et al., [1991,eng] 50-1704
 West Siberian oil and the northern sea route: current situation and future potential. Kriukov, V., et al., [1995,eng] 50-6104

- Western Conference, 1996. Controlling corrosion in northern latitudes. National Association of Corrosion Engineers (NACE) International, Houston, TX. Canadian Region, [1996,eng] 50-5945

- See [also]: Gas pipelines; Hot oil lines; Suspended pipelines; Underground pipelines; Water pipelines

- Pipes (tubes)
 Challenge of West Sak heavy oil: analysis of an innovative approach. Gondouin, M., et al., [1991,eng] 50-1713
 Coil freezing: what a relief. Jacobs, T.L., [1995,eng] 50-2458

- Conductive polymeric conduit heater. Peacock, D.G., et al., [1988,eng] 50-2330
 Electric current heater for pipes. Vainio, U., [1990,eng] 50-2342

- Evaluation of vacuum-insulated tubing for paraffin control at Norman Wells. Purdy, I.L., et al., [1991,eng] 50-1727
 Field experiments on uplift force on a steel pipe due to frost heaving. Fukuda, M., et al., [1989,rus] 50-2248

- Fishing with 1.5- and 1.75-in. coiled tubing at western Prudhoe Bay, Alaska. Mullin, M.A., et al., [1991,eng] 50-1699
 Frost damage proofed pile. Takeda, T., et al., [1989,eng] 50-2243

- Gas measurement with large Venturi tubes at Prudhoe Bay, Alaska. Metz, W.P., et al., [1991,eng] 50-1759
 Heat flux monitoring during cryogenic pipe freezing: a case study. Tavner, A.C.R., et al., [1996,eng] 50-5477

- Heat transfer in staggered and in-line tube bank designs for ice making. Intemann, P.A., et al., [1996,eng] 50-6447
 Lost circulation material usage in coiled tubing remedial cementing at Prudhoe Bay. Krause, R.E., [1991,eng] 50-1706

- Low-temperature environmental testing system design—Part 1. Lynde, P.G., et al., [1996,eng] 50-2457
 Mathematical model of a freezing wall with freezing pipes. Gao, M., [1989,chi] 50-1400

- Means of raising an ice structure on the shelf of ice-covered seas. Savel'ev, B.A., et al., [1992,rus] 50-1912
 Modeling of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al., [1996,eng] 50-6715

- OTH-backscatter power plant foundation design for warm, ice-rich permafrost soils. Foster, M.L., et al., [1991,eng] 50-1735
 Pipe rigidity as a failure index under explosive loads. Abd El Halim, A.O., et al., [1996,eng] 50-5047

- Sampling trace-level organics with polymeric tubings. Parker, L.V., et al., [1996,eng] 50-5672
 Thermosiphon-based designs and applications for foundations built on permafrost. Zarling, J.P., et al., [1991,eng] 50-1733

- Thixotropic, crosslinking polymer/borate/salt plug: development and application. Powell, J.W., et al., [1991,eng] 50-1707
 See [also]: Heat pipes; Water pipes

Piston cores

- See [also]: Core samplers

Plankton

Pit and mound topography

- Impact crater lakes on Mars. Newsom, H.E., et al., [1996,eng] 50-5777
 Influence of pocket gophers on the status of nutrients in alpine soils. Litaor, M.I., et al., [1996,eng] 50-4951

- Volcanic and tectonic history of Enceladus. Kargel, J.S., et al., [1996,eng] 50-3864
 Pits (excavations)
 Arctic bioremediation: a case study. Liddell, B.V., et al., [1991,eng] 50-1752

- Creation of high-productive seeding meadows on disturbed arctic lands. Tikhmenev, E.A., [1991,eng] 50-1744
 Development of an Alaskan North Slope soils database for drill cuttings reclamation. Schumacher, J.P., et al., [1991,eng] 50-1722

- Drilling wastes management for Alaska's North Slope. Fristoe, B.R., [1991,eng] 50-1723
 Open-cast underground technology of permafrost placer mining in the Arctic. Lavrov, N.P., et al., [1991,eng] 50-1717

- Slope stability problems in open pit coal mines in permafrost regions. Vakil, J., [1991,eng] 50-1749
 Technology adaptation to arctic mineral resource development. Zamoshch, M.N., [1991,eng] 50-1754

Place names

- See [also]: Gazetteers

Placer mining

- Applicability of Soviet arctic mining technology to northern America. Skudrzyk, F.J., [1991,eng] 50-1743
 Chain dredges for working flooded placer deposits. Knyshenko, N.S., [1992,rus] 50-806

- Estimating reserves of placer deposits. Tomskaia, T.N., [1992,rus] 50-797
 Features of borehole blasting excavation of placers in the Far North. Dobrovolski, G.N., et al., [1992,rus] 50-802

- Hydraulic mining of permafrost placers by boreholes. Khrulev, A.S., [1991,eng] 50-1716
 Improving the working capacity of rock-tunneling machines in frozen placer deposits. Egorov, I.K., et al., [1992,rus] 50-810

- Open-cast underground technology of permafrost placer mining in the Arctic. Lavrov, N.P., et al., [1991,eng] 50-1717
 Physical-technical problems in the development of deposits in the North. Zarovaia, B.N., ed., [1992,rus] 50-793

- Preventing the pollution of indigenous streams during open pit placer mining. Tsygankov, A.V., et al., [1990,rus] 50-1604
 Question of integrated electromagnetic and seismic studies of frozen rocks in placer mines. Khachai, O.A., et al., [1995,rus] 50-2517

- Technology adaptation to arctic mineral resource development. Zamoshch, M.N., [1991,eng] 50-1754
 Plains

- Characteristics of cryolithogenesis on the arctic shelf. Romanovskii, N.N., et al., [1990,rus] 50-1660
 Evolution of lowland landscapes in northeastern Asia during Late Quaternary time. Tomirdario, S.V., [1982,eng] 50-3370

- Geocryological typification of a territory according to frost heave formation conditions. Verkhovzin, I.I., et al., [1993,rus] 50-113
 Model of frozen strata in the cryolithozone. Gravis, G.F., [1996,rus] 50-6373

- Multi-temporal microwave satellite observations of plains snow-packs. Wankiewicz, A., et al., [1992,eng] 50-3563
 Paleoclimatological record of 6 ka BP climate in the Canadian prairie provinces. Vance, R.E., et al., [1995,eng] 50-1455

- Runoff index values for frozen soil areas of the Pacific Northwest. McCool, D.K., et al., [1995,eng] 50-3525
 Simulation of soil moisture variations reflecting the hydrological cycle. Akimremi, O.O., et al., [1996,eng] 50-5918

- Space imagery as a basis for modeling the dynamics of thermokarst lake plains. Viktorov, A.S., [1996,eng] 50-6647
 See [also]: Floodplains

Planetary environments

- 3.5-cm radar investigation of Mars and Mercury: planetological implications. Butler, B.J., [1994,eng] 50-690
 Chemical sputtering could produce sodium vapor and ice on Mercury. Potter, A.E., [1995,eng] 50-3093

- Hoods, mists, frosts, and ice caps at the poles of Mars. Dollfus, A., et al., [1996,eng] 50-5194
 Laboratory studies of astrophysical ices. Dissly, R.W., [1994,eng] 50-680

- Mass dependence of energy loss in collisions of icy spheres: an experimental study. Dilley, J., et al., [1996,eng] 50-5196
 Seasonal nitrogen cycles on Pluto. Hansen, C.J., et al., [1996,eng] 50-4347

- Seasonal nitrogen cycles on Triton and Pluto. Hansen, C.J., [1994,eng] 50-682
 See [also]: Mars (planet)

Plankton

- ¹³C and ¹⁵N uptake by phytoplankton in the marginal ice zone of the Bellingshausen Sea. Bury, S.J., et al., [1995,eng] 50-1028
²³⁴Th as an indicator of particulate fluxes in the Kara Sea. Kuptsov, V.M., et al., [1995,eng] 50-3544

- Antarctic phytoplankton and DNA library from communities exposed to ultraviolet-B. Jovine, R.V.M., et al., [1994,eng] 50-4246
 Antarctic planktonic biomass seasonal variations. Skerratt, J.H., et al., [1995,eng] 50-1118

- Arctic Ocean dimethyl sulfide seasonal variability. Leck, C., et al., [1996,eng] 50-4313
 At the center of scientists' attention—problems of biology in northern seas. Matishov, G.G., [1995,rus] 50-4304

Plant ecology

Plant ecology

- Benthic studies in the Laptev Sea. Schmid, M.K., et al. [1995,eng] 50-2087
- Biogenic hydrocarbons in particulate material of the Belling-shausen Sea marginal ice zone. Cripps, G.C., [1995,eng] 50-1025
- Biological CO₂ pump in seasonally ice-covered waters. Legendre, L., [1996,eng] 50-6033
- Chemistry of water and ice from Drake Passage and the Belling-shausen Sea. Turner, S.M., et al. [1995,eng] 50-1024
- Chlorophyll in the western Bering Sea. Mordasova, N.V., [1995,eng] 50-3605
- Climate change in the recent evolution of a pro-glacial lake. Webster, J., et al. [1996,eng] 50-3704
- Composition and characteristics of the distribution of ichthyoplankton in the southwestern Barents Sea. Zaleskikh, L.M., [1991,rus] 50-1313
- Composition and distribution of summer zooplankton in the Laptev Sea. Kosebokova, K., et al. [1995,eng] 50-2085
- Contribution of fast-ice algae to the spring phytoplankton bloom in Ellis Fjord, McMin, A., [1996,eng] 50-5271
- Cyclopoids of the Bransfield Strait. Bielecka, L., [1993,eng] 50-2184
- Daily vertical migration of antarctic copepods beneath the ice. Tseitlin, V.B., et al. [1995,eng] 50-3607
- Diatom distribution on Baffin Island, Canada. Wolfe, A.P., [1996,eng] 50-6514
- Diatom, chrysophyte and protozoan distributions along a latitudinal transect in Fennoscandia. Pienitz, R., et al. [1995,eng] 50-4741
- Dinoflagellate cysts and climate change through the Neogene. Harland, R., [1994,eng] 50-899
- Distribution of bacterioplankton in the Kara Sea in September 1993. Miskovich, I.N., et al. [1995,eng] 50-3537
- Distribution of under-ice and ice phytoplankton in Lake Baykal. Zavoruev, V.V., et al. [1995,rus] 50-4106
- Ecological conditions in the Barents Sea (institutes and literature catalogue). Doronin, N., [1992,eng] 50-20
- Ecosystem of the sea ice in Antarctica. Rakusa-Suszczewski, S., [1989,pol] 50-2875
- Effects of acidification on plankton biomass in high mountain lakes. Engle, D., et al. [1995,eng] 50-2149
- Effects of pack ice on Weddell Sea plankton distribution. Kaufmann, R.S., et al. [1995,eng] 50-4160
- Endurance of arctic ecosystems in changes in the environment. Golikov, A.N., et al. [1991,rus] 50-1294
- Environment and ecosystems of Novaya Zemlya; the archipelago and shelf. Matishov, G.G., ed. [1995,rus] 50-5145
- Estimating the mean annual primary production and outflow of organic carbon in Antarctica. Tseitlin, V.B., [1995,rus] 50-6321
- Estimation of the autochthonous detritus flux through plankton communities of the Kara Sea. Lebedeva, L.P., et al. [1995,eng] 50-3541
- Evolution of the ecosystem and biogeography of seas in the European Arctic. Pavlov, D.S., ed. [1994,rus] 50-3088
- Expedition ARKTIS-XI/2 of RV *Polarstern* in 1995. Krause, G., ed. [1996,eng] 50-5104
- Fall phytoplankton biomass. P-I relationships and primary production in the Weddell Sea. Dower, K.M., et al. [1996,eng] 50-4008
- Fluxes of nutrients between benthic and plankton communities in the coastal zone of the Barents Sea. Kuznetsov, L.L., et al. [1995,eng] 50-3606
- Freshwater impact on Hudson bay ecosystems under sea ice. p.2. Legendre, L., et al. [1996,eng] 50-4020
- Freshwater net zooplankton of Spitsbergen. Terek, J., et al. [1989,eng] 50-2926
- Holocene environmental changes in a Tibetan lake basin, pt.3. Fan, H., et al. [1996,eng] 50-5092
- Hydrobiological research in the Lena polynya. Gukov, A.I.U., [1995,eng] 50-2089
- Ice-covered temperate lake limnology. Agbeti, M.D., et al. [1995,eng] 50-739
- Ice-edge hydrography between Elephant I. and the South Orkneys, summer 1988-1989. Figueiras, F.G., et al. [1990,spa] 50-5525
- Impact of climate change on carbon cycle in freshwater ecosystems. Kankaala, P., et al. [1994,eng] 50-3201
- Inorganic nutrients in the marginal ice zone of the Belling-shausen Sea in spring. Whitehouse, M.J., et al. [1995,eng] 50-1023
- Inter-annual variability in marine coastal antarctic bacterioplankton. Delille, D., et al. [1996,eng] 50-4006
- Late Pleistocene-Holocene diatom record and paleoenvironment of Bangong Lake, Western Tibet. Fan, H., et al. [1994,eng] 50-1532
- Latest Quaternary foraminifers and sediment transport in Per-venets Canyon, Bering Sea. Starratt, S.W., [1995,eng] 50-3347
- Latitude as a factor in the calculation of primary production. Platt, T., et al. [1995,eng] 50-4129
- Marine snow in antarctic coastal waters. Marchant, H.J., et al. [1996,eng] 50-6034
- Mesoplankton in the east Kara Sea and the Ob and Yenisey River estuaries. Vinogradov, M.E., et al. [1995,eng] 50-3539
- Mesoplankton of the west Kara Sea and the Baidara Bay. Vinogradov, M.E., et al. [1995,eng] 50-3538
- Microplankton bloom dynamics in McMurdo Sound, Antarctica. Stoeker, D.K., et al. [1993,eng] 50-3394
- Morphometry of bacterioplankton cells in the Barents Sea. Baitaz, V.A., et al. [1995,rus] 50-4203
- Norwegian Sea Pleistocene ice-core indicators of climatic change. Sejrup, H.P., et al. [1995,eng] 50-6564
- Occurrence of an algal bloom under arctic pack ice. Gradinger, R., [1996,eng] 50-4159
- Occurrence of net phytoplankton between Elephant I. and the southern passages. Koczyńska, E.E., et al. [1989,pol] 50-2927
- Oil pollution in Arctic waters. Futsaeter, G., et al. [1991,eng] 50-3421
- On the summer distribution of mesozooplankton in the Nansen Basin, Arctic Ocean. Mumm, N., [1991,ger] 50-3399
- Paleoceanographic surface water variations derived from ice-rafted sediments. Maslin, M.A., et al. [1995,eng] 50-565
- Paleoclimatological significance of Quaternary diatom lake deposits in Qinghai-Xizang (Tibet). Li, J.Y., et al. [1994,eng] 50-1536
- Paleoecological study of fire-induced lake water acidity variations. Korhola, A., et al. [1996,eng] 50-5020
- Particle fluxes in the Kara Sea and Ob and Yenisey estuaries. Lisitsyn, A.P., et al. [1995,eng] 50-3543
- Particulate organic matter in Terra Nova Bay in summer 1990. Fabiano, M., et al. [1996,eng] 50-3702
- Peculiarities of diatom thanatocenoses formation in the sediments of the Eurasian arctic seas. Poliakova, E.I., [1995,eng] 50-2536
- Pelagic processes in the Norwegian and Greenland Seas. von Bodungen, B., et al. [1995,eng] 50-746
- Periphytic diatom assemblages from high arctic ponds. Douglas, M.S.V., et al. [1995,eng] 50-1460
- Phytoplankton biomass and taxonomy around Elephant I. Villafañe, V.E., et al. [1995,eng] 50-1826
- Phytoplankton response to fluctuating UVB. Karentz, D., et al. [1995,eng] 50-1323
- Phytoplankton seasonal bloom shift in Barents Sea ice. Strass, V.H., et al. [1996,eng] 50-6721
- Plankton age variations in the Cooperation Sea. Budnichenko, E.V., [1994,eng] 50-868
- Plankton at the ice-water interface. Delille, D., et al. [1995,eng] 50-165
- Plankton biomass in the Arctic Ocean. Timofeev, S.F., [1995,eng] 50-2086
- Plankton biomass variation in antarctic lakes. Bayliss, P.R., et al. [1995,eng] 50-1336
- Plankton biomass variations in the Bering Sea. Tseitlin, V.B., et al. [1994,eng] 50-867
- Plankton bloom in a Greenland pingo. Kristiansen, J., et al. [1995,eng] 50-366
- Plankton blooms as evidence of Holocene climatic fluctuations. Thorsen, T.A., et al. [1995,eng] 50-2860
- Plankton dynamics in the Barents Sea marginal ice zone. Hansen, B., et al. [1996,eng] 50-3528
- Plankton ecosystems in the Norwegian and Greenland Sea. Samleb, C., et al. [1995,eng] 50-749
- Planktonic communities of melt ponds on the McMurdo Ice Shelf, Antarctica. James, M.R., et al. [1995,eng] 50-1282
- Planktonic DNA diversity in the Canadian high Arctic. Van Raay, T.J., et al. [1995,eng] 50-4092
- Pleistocene foraminifera in Arctic Ocean piston cores. Evans, J.R., et al. [1995,eng] 50-3348
- Primary production and chlorophyll in the Kara Sea in September 1993. Vederikov, V.I., et al. [1995,eng] 50-3536
- Relation between distribution of phytoplankton and sea water stability. Su, Y.F., [1989,chi] 50-6767
- Rotifer ecology in high-altitude alpine sites. Jersabek, C.D., [1995,eng] 50-4163
- Rotifers from the Canadian High Arctic (Devon Island, Northwest Territories). De Smet, W.H., et al. [1995,eng] 50-4162
- Selected aspects of the physical oceanography and particle fluxes in fjords of northern Norway. Wassmann, P., et al. [1996,eng] 50-5571
- Spring-bloom time-series at the Bering Sea ice edge pt.1. Niebauer, H.J., et al. [1995,eng] 50-1031
- Structure of microphytoplankton assemblages. Froeeman, P.W., et al. [1995,eng] 50-1324
- Study of Bering Sea primary productivity. Sapozhnikov, V.V., et al. [1995,eng] 50-6687
- Summer phytoplankton bloom under fast ice around Showa Station. Odate, T., et al. [1996,eng] 50-6037
- Summer plankton beneath the McMurdo Ice Shelf at White I. Knox, G.A., et al. [1996,eng] 50-3403
- Suspended particulates and plankton during retreat of the marginal ice zone in the Bellingshausen Sea. Robins, D.B., et al. [1995,eng] 50-1026
- Suspended sediments and organic carbon in Glacier Bay fjords. Cowan, E.A., [1995,eng] 50-3734
- Svalbard-field excursion in arctic marine biology, June 5-14, 1995. Weissenberger, J., ed. et al. [1995,eng] 50-1554
- Swedish Antarctic Research Programme, 1989/90: a cruise report. Reuterskiöld, M., [1992,eng] 50-1418
- Taxonomy and ecology of the ciliate fauna of the Weddell Sea. Petz, W., et al. [1995,eng] 50-2582
- Ultraviolet inhibition of carbon fixation in phytoplankton. Boucher, N., et al. [1994,eng] 50-4245
- Ultraviolet radiation effects on phytoplankton during ozone depletion. Villafañe, V.E., et al. [1994,eng] 50-4243
- UV radiation effects on aquatic organisms. Holm-Hansen, O., et al. [1993,eng] 50-1325
- UV-B-tolerance of alpine and arctic *Daphnia*. Zellmer, I.D., [1995,eng] 50-1972
- Variability in nutrient concentrations around Elephant Island, Antarctica, during 1991-1993. Silva, S., N., et al. [1995,eng] 50-941
- Variables of cryopreservation of marine microalgae. Catavate, J.P., et al. [1995,eng] 50-4327
- Vertical light attenuation by phytoplankton absorption in the Greenland Sea. Dalløkken, R., et al. [1995,eng] 50-4131
- Vertical particle flux on the shelf off northern Spitsbergen, Norway. Andreassen, I., et al. [1996,eng] 50-6566
- Water column and sea-ice primary production during Austral spring in the Bellingshausen Sea. Boyd, P.W., et al. [1995,eng] 50-1027
- XVI Polar Symposium: Achievements and Prospects of Polish Polar Research, Toruń, Sep. 19-20, 1989. Polar Symposium, 16th, Toruń, Poland, Sep. 19-20, 1989. [1989,pol] 50-2870
- Zooplankton of the Laptev Sea coastal waters. Petriashov, V.V., et al. [1995,eng] 50-2084
- Plant ecology**
- Adaptation of tree seedlings to subalpine meadow soil moisture variations. Kuuluvainen, T., et al. [1996,eng] 50-4337
- Afforestation of larch in autumn. Wang, T.X., et al. [1991,chi] 50-5847
- Alaskan Palaeogene climates as inferred from the CLAMP database. Wolfe, J.A., [1994,eng] 50-908
- Alpine bryophyte communities. Geissler, P., [1982,eng] 50-5413
- Alpine ecosystem snow depths derived from tree damage. Woolfdrige, G.L., et al. [1996,eng] 50-4629
- Alpine lichens in SW Tasmania. Kantvilas, G., [1995,eng] 50-3777
- Alpine plant diversity: a global survey and functional interpretations. Körner, C., [1995,eng] 50-3892
- Alpine vascular flora of the Tushar Mountains, Utah. Tase, A.C., [1995,eng] 50-1541
- Anatomy of tropical alpine plants. Carlquist, S., [1994,eng] 50-3049
- Application of chemical fertilizers in Xinjiang. Huang, Z.W., et al. [1991,chi] 50-5128
- Arctic and alpine biodiversity: patterns, causes and ecosystem consequences. [1995,eng] 50-3888
- Arctic dwarf shrub response to simulated climatic warming. Michelsen, A., et al. [1996,eng] 50-5770
- Arctic fungi classification and structural analysis. Currah, R.S., et al. [1996,eng] 50-4264
- Arctic terrestrial ecosystems and environmental change. Callaghan, T.V., et al. [1995,eng] 50-5232
- Arctic vegetation types as response predictors to global change. Chapin, F.S., III, et al. [1996,eng] 50-6557
- Arcto-alpine and boreal elements in the high altitude flora of north west Himalaya. Gupta, R.K., [1994,eng] 50-5417
- Arcto-Tertiary Y3: perspectives and prospects. Collinson, M.E., [1994,eng] 50-917
- Assessing and responding to the effects of climate change on forest ecosystems. Spillhouse, D.L., [1996,eng] 50-4068
- Assessment on the diversity and status of the alpine plants of Indian Himalaya. Samant, S.S., [1994,eng] 50-5424
- Atmospheric deposition and pollutant exposure of eastern U.S. forests. Mohan, V.A., [1992,eng] 50-4052
- Atmospheric deposition effects on foliar injury and foliar leaching in red spruce. Schier, G.A., et al. [1992,eng] 50-4056
- Barley genetic resources on the Qinghai-Xizang Plateau. Xu, T.W., [1992,chi] 50-1492
- Biodiversity and climate in the coastal temperate rainforests of North America. Alaback, P.B., [1996,eng] 50-4063
- Biodiversity of Canadian forests, with particular reference to the west coast forests. Boyle, T.J.B., [1996,eng] 50-4071
- Biological rehabilitation of disturbed lands in the arctic gas-producing regions. Masalkin, S.D., [1991,eng] 50-1767
- Biology of high latitude kelp. Dunton, K.H., et al. [1995,eng] 50-4139
- Biomass diversity in arctic and alpine ecosystems. Pastor, J., [1995,eng] 50-3904
- Biomass, primary production, and nutrient dynamics in a Himalayan forest. Rawat, Y.S., et al. [1994,eng] 50-5435
- Bryophyte vegetation in polar regions. Longton, R.E., [1982,eng] 50-5412
- Carbon acquisition and growth of antarctic sea ice diatoms in closed bottle incubations. Gleitz, M., et al. [1996,eng] 50-5455
- Carbon cycle in the high arctic tundra of Spitsbergen. Wüthrich, C., et al. [1994,eng] 50-1595
- Causes and consequences of plant functional diversity in arctic ecosystems. Chapin, F.S., III, et al. [1995,eng] 50-3902
- Causes of arctic plant diversity: origin and evolution. Murray, D.F., [1995,eng] 50-3890
- Cenozoic plants and climates of the Arctic. Boulter, M.C., ed. et al. [1994,eng] 50-892
- Characterization of eastern U.S. spruce-fire soils. Fernandez, J.L., [1992,eng] 50-1051
- Chemistry of artificial snow and its influence on the germination of mountain flora. Jones, H.G., et al. [1995,eng] 50-2428
- Climate change and the alpine flora: some perspectives. Theurillat, J.P., [1995,eng] 50-1015
- Climate change, plant reproductive ecology, and population dynamics. Molau, U., [1995,eng] 50-1009
- Clonal diversity in an arctic sedge. Jonsson, B.O., et al. [1996,eng] 50-6076
- Cold resistance mechanisms in high desert Andean plants. Squeo, F.A., et al. [1996,eng] 50-5774
- Cold tolerance in tropical alpine plants. Beck, E., [1994,eng] 50-3048

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- Collected papers on forest management in the cold temperate zone. Lou, Y.H., ed. et al. [1991.chi] 50-5839
- Comparative water relations of tropical alpine plants. Meinzer, F.C., et al. [1994.eng] 50-3047
- Condition and recent trends in high-elevation red spruce populations. Peart, D.R., et al. [1992.eng] 50-4053
- Conifer relicts or paleoclimatic indicators. Mai, D.H., [1994.eng] 50-906
- Connecting links between the Arctic Palaeocene and European Tertiary floras. Kvaček, Z. [1994.eng] 50-910
- Constraints on primary productivity in the coastal temperate forests of the Americas. Waring, R.H., et al. [1996.eng] 50-4062
- Control of epiphytic ice nucleation-active bacteria for management of plant frost injury. Lindow, S.E., [1995.eng] 50-3283
- Control of tundra methane emission by microbial oxidation. Whalen, S.C., et al. [1996.eng] 50-4850
- Controlling the density of natural young growth stands of larch. Zhu, L.Y., et al. [1991.chi] 50-5848
- Damming James Bay: I. Potential impacts on coastal climate and the water balance. Rouse, W.R., et al. [1992.eng] 50-5030
- Deep supercooling in buds of woody plants. Quamme, H.A., [1995.eng] 50-3280
- Deep supercooling in woody plants and the role of cell wall structure. Wisniewski, M., [1995.eng] 50-3279
- Dendroecology of red spruce decline. Cook, E.R., et al. [1992.eng] 50-4054
- Diatom, chrysophyte and protozoan distributions along a latitudinal transect in Fennoscandia. Pienitz, R., et al. [1995.eng] 50-4741
- Discovery of *Quercus semicarpifolia* fossils at Mount Xixia Bangma. Xu, R., [1982.chi] 50-6608
- Distribution of the high arctic grass, *Phippisia algida*. Grulke, N.E., [1995.eng] 50-78
- Disturbance and recovery of arctic Alaskan vegetation. Walker, D.A., [1996.eng] 50-4841
- Drought and salt resistant plants in arid regions of China. Omasa, K., et al. [1991.jpn] 50-1442
- Dynamics of dissolved and particulate carbon in an arctic stream. Oswald, M.W., et al. [1996.eng] 50-4851
- Dynamics of montane treelines. Slatyer, R.O., et al. [1992.eng] 50-4072
- Early Holocene environment on Bjørnøya from lake sediments. Wohlfarth, B., et al. [1995.eng] 50-4721
- Early Holocene land floras and faunas from Edgesoya, eastern Svalbard. Bennike, O., et al. [1995.eng] 50-4717
- Early Tertiary vegetation and paleoclimatology of arctic Canada. Basinger, J.F., et al. [1994.eng] 50-905
- Ecological classification of Michigan wetland ecosystems. Zogg, G.P., et al. [1996.eng] 50-3297
- Ecological controls on peatland methane emissions in discontinuous permafrost. Bubier, J.L., et al. [1995.eng] 50-2803
- Ecological significance of German mountain periglacial deposits. Frühau, M., [1990.ger] 50-4565
- Ecological study in an alpine pasture of Bhagirathi Valley, Garhwal Himalaya. Rajwar, G.S., et al. [1994.eng] 50-5429
- Ecology and conservation management of cool temperate rainforest in Tasmania. Brown, M.J., et al. [1996.eng] 50-4069
- Ecology and conservation of alpine meadows in central Himalaya. India. Ram, J., et al. [1994.eng] 50-5418
- Ecology and decline of red spruce in the eastern United States. Eagar, C., et al. [1992.eng] 50-4049
- Ecology of an alpine cushion plant. Owen, W.R., [1995.eng] 50-1540
- Ecophysiological sensitivity of terrestrial vascular plants to climate change. Jonasson, S., [1995.eng] 50-1007
- Ecophysiology of a snow-bed moss during snowmelt. Woolgrove, C.E., et al. [1996.eng] 50-6748
- Ecosystem consequences of microbial diversity and community structure. Schimel, J.P., [1995.eng] 50-3903
- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: introduction. Reynolds, J.F., et al. [1996.eng] 50-4839
- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: progress and prospects. Tenhunen, J.D., et al. [1996.eng] 50-4857
- Effect of fertilizer on the quality and productivity of Jiashi melons. Zhao, G.H., et al. [1991.chi] 50-5124
- Effect of irrigation on the quality and productivity of Jiashi melons. Chang, Q., et al. [1991.chi] 50-5125
- Effect of root fungi on subarctic plant growth. Fernando, A.A., et al. [1996.eng] 50-6747
- Effects of air pollution on carbon allocation in red spruce. McLaughlin, S.B., et al. [1992.eng] 50-4058
- Effects of climate change on plant diversity and distribution. Holten, J.I., [1995.eng] 50-1006
- Effects of dehydration and freezing stress on brown algae. Pearson, G.A., et al. [1995.eng] 50-1523
- Effects of enhanced UV-B radiation on the growth of dwarf shrubs in a subarctic heathland. Johanson, U., et al. [1995.eng] 50-3618
- Effects of grazing on alpine vegetation in the Caucasus and the Rockies. Bock, J.H., et al. [1995.eng] 50-73
- Effects of nutrient availability on arctic sedge growth. Gebauer, R.L.E., et al. [1995.eng] 50-2540
- Effects of oil spills on high arctic plant communities in Greenland Bay, C., et al. [1994.eng] 50-303
- Effects of seed treatments on germination. Diemand, D., et al. [1994.eng] 50-5836
- Energy balance and hydrological processes in an arctic watershed. Hinzman, L.D., et al. [1996.eng] 50-4844
- Environmental biology of a tropical treeline species, *Polylepis sericea*. Goldstein, G., et al. [1994.eng] 50-3050
- Environmental degradation in the northeastern Qinghai-Xizang Plateau. Zheng, Y.C., [1994.eng] 50-4786
- Environmental research project for Yamburg gas fields. Chlenov, A.V., [1991.eng] 50-1766
- Enzymatic and morphological variations in arctic grasses. Aiken, S.G., et al. [1995.eng] 50-1068
- Estimate of the early Tertiary paleoclimate of the southern Arctic. Tiffney, B.H., [1994.eng] 50-911
- Estimates of North American tundra ecosystem biomass. Gilmanov, T.G., et al. [1995.eng] 50-4864
- Evaluation of wheat germplasm resources in Xizang. Huang, H.L., et al. [1992.chi] 50-1491
- Evergreen shrub leaf variations in taiga and tundra landscapes. Kudo, G., [1995.eng] 50-2732
- Experiments on afforestation by aerial seeding in the cold temperate zone. Wang, T.X., et al. [1991.chi] 50-5846
- Fertilizers and enzyme activity of Jiashi melon field soils. Yue, H.X., et al. [1991.chi] 50-5126
- Floristic changes in the areas surrounding the Paratethys during Neogene time. Kovar-Eder, J., et al. [1994.eng] 50-915
- Forest dynamics and disturbance in the temperate rainforests of the Americas. Veblen, T.T., et al. [1996.eng] 50-4065
- Forest fire of May 6, 1987, in the Greater Khingan Range. Lou, Y.H., [1991.chi] 50-5853
- Forest resources of Qinghai. Sun, X.R., ed. et al. [1988.chi] 50-5822
- Forested beach ridge chronosequence on Yakutat foreland, Alaska. Shephard, M.E., [1995.eng] 50-3748
- Fossil flora of the Paleocene climatic optimum in north eastern Asia. Budantsev, L.I.U., [1994.eng] 50-912
- Fossil plants as paleoenvironmental indicators. Chaloner, W.G., [1994.eng] 50-894
- Freezing tolerance in plants: an overview. Chen, T.H.H., et al. [1995.eng] 50-3277
- Frost damage to northern trees during climatic warming. Hänninen, H., [1996.eng] 50-6631
- Functional significance of inflorescence pubescence in tropical alpine species of *Puya*. Miller, G.A., [1994.eng] 50-3053
- Genetic diversity of an arctic/alpine herb species. Bauert, M.R., [1996.eng] 50-5493
- Geoscientific Spitsbergen Expedition 1990-1992. Blümel, W.D., ed. [1994.ger] 50-1574
- Germination properties of herb perennials on Mt. Fuji. Nishitani, S., et al. [1996.eng] 50-4343
- Grass photosynthesis variations under cold climatic conditions. Siutkina, A.V., et al. [1996.eng] 50-6754
- Grassland ecosystems in eastern Inner Mongolia. Nemoto, M., [1991.jpn] 50-1440
- Growth dynamics and population development in an alpine grassland under elevated CO₂. Schappi, B., [1996.eng] 50-5779
- Growth response of mosses to simulated subarctic environmental change. Potter, J.A., et al. [1995.eng] 50-3860
- Growth responses of an alpine grassland to elevated CO₂. Schappi, B., et al. [1996.eng] 50-5771
- Habitats and forest types in the mountains of southeastern Xizang. Xu, F.X., [1992.chi] 50-1484
- Heavy metals in the podsol desert soils of the Fukang region. Xie, Y.Y., et al. [1991.chi] 50-5133
- Herb germination ecology in Yellowstone National Park. Romme, W.H., et al. [1995.eng] 50-2816
- Herb reproductive timing in relation to snow conditions. Morton, M.L., [1994.eng] 50-1542
- High altitude (above timber-line) bryoflora of Kumaun Himalaya. Tewari, S.D., et al. [1994.eng] 50-5431
- High altitude flora of western Himalaya: peculiarities and conservation. Aswal, B.S., [1994.eng] 50-5421
- High altitude forests with special reference to timber line in Kumaun, central Himalaya. Rawal, R.S., et al. [1994.eng] 50-5434
- High altitudes of the Himalaya (biogeography, ecology & conservation). Pangtey, Y.P.S., ed. et al. [1994.eng] 50-5415
- High-latitude rainforests and associated ecosystems of the west coast of the Americas. Lawford, R.G., ed. et al. [1996.eng] 50-4060
- History of the exploration of the vascular flora of Greenland. Pringle, J.S., [1995.eng] 50-3413
- How unique is primary plant succession at Glacier Bay. Walker, L.R., [1995.eng] 50-3749
- Humus conditions of oligotrophic tundra soils in Spitsbergen. Weber, L., et al. [1994.ger] 50-1594
- Hydrological controls on ecosystem gas exchange in an arctic landscape. Ostendorf, B., et al. [1996.eng] 50-4855
- Identification of fossil plant fragments in glaciers. Lindsjö, A., et al. [1995.swe] 50-1470
- Impact of atmospheric changes on alpine vegetation: the ecophysiological perspective. Körner, Ch., [1995.eng] 50-1014
- Impacts of increased winter snow cover on upland tundra vegetation: a case example. Scott, P.A., et al. [1995.eng] 50-3848
- Implications for changes in arctic plant biodiversity from environmental manipulation experiments. Callaghan, T.V., et al. [1995.eng] 50-3897
- Implications of patch dynamics for forested ecosystems in the Pacific Northwest. Bradshaw, G.A., et al. [1996.eng] 50-4067
- Individual-based model of alpine plant distributions. Humphries, H.C., et al. [1996.eng] 50-3151
- Initial phase of postfire forest regeneration in two lichen woodlands of northern Québec. Sirois, L., [1995.eng] 50-2158
- Integrated ecosystem research in northern Alaska, 1947-1994. Shaver, G.R., [1996.eng] 50-4840
- Introduction of *Larix olgensis* into the Greater Khingan Range. Liu, X.T., et al. [1991.chi] 50-5850
- Introduction to tropical alpine vegetation. Smith, A.P., [1994.eng] 50-3044
- Invasion of arcto-tertiary elements in the Palaeocene of central Europe. Walther, H., [1994.eng] 50-909
- Isotope analysis of variable subarctic plant nutrient access. Michelsen, A., et al. [1996.eng] 50-5772
- Isotopic analysis of phosphorus in soils and crops of Xinjiang. Wu, G.H., et al. [1991.chi] 50-5130
- Japan-China Joint Study on Desertification. Apr. 1990-Mar. 1991. Japan. Science and Technology Agency. Research and Development Bureau (Kagaku gijutsuho Kenkyu kaihatu-oku), [1991.jpn] 50-1421
- Ladakh: an update on natural resources. Dhar, U., et al. [1994.eng] 50-5423
- Land-water interactions: the influence of terrestrial diversity on aquatic ecosystems. Kling, G.W., [1995.eng] 50-3906
- Landscape function and disturbance in arctic tundra. Reynolds, J.F., ed. et al. [1996.eng] 50-4838
- Landscape patterns of carbon dioxide exchange in tundra ecosystems. Oberbauer, S.F., et al. [1996.eng] 50-4849
- Late Cretaceous arctic palaeofloras and high latitude climate. Herman, A.B., [1994.eng] 50-903
- Leaf extract allelopathic effects on arctic graminoids. Michelsen, A., et al. [1995.eng] 50-1091
- Lichens of alpine meadows on the Beartooth Plateau, Montana and Wyoming. U.S.A. Eversman, S., [1995.eng] 50-2815
- Lichens on Livingston and Robert Is. Valladares, F., et al. [1995.eng] 50-3779
- Little Ice Age temperature estimated by arctic heather growth variations. Havström, M., et al. [1995.eng] 50-1121
- Long-term plant persistence on highly acidic soils. Palazzo, A.J., et al. [1995.eng] 50-5593
- Low temperature ecology of a plant root bacterium. Sun, X.Y., et al. [1995.eng] 50-2733
- Meadow ecology in the polar Urals, Russia. Gorchakovskii, P.L., et al. [1996.eng] 50-5482
- Meteor impact and the Cretaceous-Tertiary transition in arctic plant fossils. Spicer, R.A., et al. [1994.eng] 50-904
- Micro-scale patterns of modern pollen deposition within three alpine plant communities. Pardoe, H.S., [1996.eng] 50-4253
- Microbial sea ice ecology at a coastal antarctic site. Archer, S.D., et al. [1996.eng] 50-5456
- Micrometeorological effects on alpine vegetation reproduction. Bergman, P., et al. [1996.eng] 50-5494
- Microsporogenesis of the Siberian larch in western Siberian Zapolyar'e. Rozhdvestvenskii, I.U.F., et al. [1995.eng] 50-3966
- Migrations and evolution: computerised maps from computerised data. Brown, S.M., [1994.eng] 50-914
- Minimum area and cover-abundance scales as applied to plant desert vegetation. Levesque, E., [1996.eng] 50-5489
- Modeling decomposition in arctic ecosystems. Moorhead, D.L., et al. [1996.eng] 50-4854
- Modeling dry deposition of dust along the Dalton Highway. Lamprecht, R., et al. [1996.eng] 50-4853
- Modeling forest succession at Glacier Bay. Weishampel, J.F., et al. [1995.eng] 50-3744
- Molecular and genetic diversity of arctic bedding plants. Abbott, R.J., et al. [1995.eng] 50-4093
- Morphological and physiological radiation in páramo *Draba*. Pfitsch, W.A., [1994.eng] 50-3051
- Mycorrhizal diversity in arctic and alpine tundra: an open question. Gardes, M., et al. [1996.eng] 50-6550
- Myth of the classic hydrosere model of bog succession. Klünger, L.F., [1996.eng] 50-4331
- Natural regeneration in cut forests of the Greater Khingan Range. Zhou, W.Q., [1991.chi] 50-5843
- Natural vegetation complexes of the Northern Dvina River floodplain. Vekhov, N.V., [1995.eng] 50-4699
- Nilssoniocladus* in the Cretaceous Arctic: new species and biological insights. Spicer, R.A., et al. [1996.eng] 50-6541
- Nitrogen fixers in early primary succession at Glacier Bay. Kohls, S.J., et al. [1995.eng] 50-3747
- Nitrogen soil dynamics in an arctic lowland ecosystem. Chapin, D.M., [1996.eng] 50-4340
- Numerical analysis of vegetation cover structure and anthropogenic characteristics of deposits. Grissan, O.E., et al. [1990.rus] 50-1616
- Nutrient availability and uptake by tundra plants. Schimel, J.P., et al. [1996.eng] 50-4848
- Origin and evolution of the mountain flora in Middle Asia and neighbouring mountain regions. Agakhanians, O.E., et al. [1995.eng] 50-3893
- Origin of the arctic driftwood—a dendrochronological study. Eggertsson, O., [1994.eng] 50-3851
- Origin of the driftwood on the coasts of Iceland: a dendrochronological study. Eggertsson, O., [1993.eng] 50-4771
- Overview of the reproductive biology of *Espeletia* (Asteraceae) in the Venezuelan Andes. Berry, P.E., et al. [1994.eng] 50-3056
- Palaeo-ecophysiological studies on cretaceous and tertiary fossil floras. Beerling, D.J., [1994.eng] 50-895

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- Palaeoge flora of Spitsbergen: implications for arcticotertiary climatogeography. Manum, S.B., [1994,eng] 50-907
- Paleorecords of plant biodiversity in the Alps. Ammann, B., [1995,eng] 50-3896
- Paramo microclimate and leaf thermal balance of Andean giant rosette plants. Meinzer, F.C., et al., [1994,eng] 50-3046
- Past changes in climate and tree growth in the western Americas. D'Arrigo, R.D., et al., [1996,eng] 50-4061
- Patch and landscape models of arctic tundra: potentials and limitations. Reynolds, J.F., et al., [1996,eng] 50-4852
- Patterns and causes of arctic plant community diversity. Walker, M.D., [1995,eng] 50-3889
- Patterns and causes of genetic diversity in arctic plants. McGraw, J.B., [1995,eng] 50-3891
- Patterns and current changes in alpine plant diversity. Grabherr, G., et al., [1995,eng] 50-3898
- Patterns of early lake ontogeny in Glacier Bay as inferred from diatom assemblages. Fritz, S.C., et al., [1995,eng] 50-3750
- Patterns, cause, changes and consequences on biodiversity in arctic and alpine ecosystems. Chapin, F.S., III, et al., [1995,eng] 50-3907
- Pedogenesis and vegetation in desert areas of Inner Mongolia. Hattai, T., [1991,jpn] 50-1441
- Periphytic diatom assemblages from high arctic ponds. Douglas, M.S.V., et al., [1995,eng] 50-1460
- Permafrost soil thawing after forest fires. Swanson, D.K., [1996,eng] 50-5497
- Phenotypic plasticity in leaves of four species of arctic *Festuca* (Poaceae). Ramesar-Fortner, N.S., et al., [1995,eng] 50-3301
- Physical environment, its utilization and conservation of the Karakoram and Kunlun Mts. region. Zheng, D., [1992,chi] 50-1483
- Phytogeographic relationships in the cool temperate rainforests of Chile. Arroyo, M.T.K., et al., [1996,eng] 50-4064
- Pine tree distribution in the permafrost zone of the Greater Khingan Range. Lu, G.W., [1989,chi] 50-1346
- Plan for the Japan-China joint study of the Taklimakan Desert. Japan. Science and Technology Agency. Research and Development Bureau, [1991,jpn] 50-1422
- Plant communities and desertification in Xinjiang Province. Tanimoto, T., et al., [1991,jpn] 50-1439
- Plant communities in alpine habitat with special reference to Garhwal Himalaya. Rawat, D.S., et al., [1994,eng] 50-5420
- Plant communities of the Bol'oi Civyryk River Valley, Barguzinskij Range, East Siberia. Chytrý, M., et al., [1995,eng] 50-4950
- Plant ecology during desertification of an arctic salt marsh. Srivastava, D.S., et al., [1996,eng] 50-4523
- Plant ecology of the Greater Khingan Range permafrost zone. Yang, K.C., [1989,chi] 50-1347
- Plant effects on arctic ecosystem biogeochemical processes. Hobbie, S.E., [1995,eng] 50-3901
- Plant form and function in alpine New Guinea. Hnatuk, R.J., [1994,eng] 50-3060
- Plant functional diversity and resource control of primary production in Alaskan arctic tundras. Shaver, G.R., [1995,eng] 50-3900
- Plant tissue protein associated with pine tree frost hardness. Ekramoddoullah, A.K.M., et al., [1995,eng] 50-1088
- Population biology of Mount Kenya lobelias. Young, T.P., [1994,eng] 50-3057
- Population biology of *Senecio keniodendron* (Asteraceae) and Afroalpine giant rosette plant. Smith, A.P., et al., [1994,eng] 50-3058
- Population dynamics of a Hawaiian alpine rosette plant. Rundel, P.W., et al., [1994,eng] 50-3059
- Potential ecological impacts of climate change in the Alps and Fennoscandian mountains. Guisan, A., ed., et al., [1995,eng] 50-1002
- Preliminary habitat suitability index model for Himalayan musk deer. Rawat, G.S., [1994,eng] 50-5430
- Preliminary study on the growth rate of major forest communities in the Greater Khingan Range. Gu, Y.C., [1991,chi] 50-5851
- Primary succession and future vegetation patterns at Glacier Bay. Chapin, F.S., III, et al., [1995,eng] 50-3743
- Problems of natural reforestation of Dahurian larch (*Larix gmelinii*). Lou, Y.H., [1991,chi] 50-5842
- Proceedings. Glacier Bay Science Symposium, 3rd, Glacier Bay National Park and Preserve, Gustavus, AK, Sep. 15-18, 1993. [1995,eng] 50-3730
- Protected areas and conservation of rare endemic plants in the Himalaya. Rawat, G.S., [1994,eng] 50-5422
- Qualitative successional models in Glacier Bay. Sharman, L.C., et al., [1995,eng] 50-3753
- Rangelands of Xizang (Tibet). Mou, X.D., et al., [1992,chi] 50-2296
- Recent advance of the arctic treeline along the eastern coast of Hudson Bay. Lesco-Sinclair, K., et al., [1995,eng] 50-3041
- Recent white spruce dynamics at the subarctic alpine treeline of north-western Canada. Szeicz, J.M., et al., [1995,eng] 50-3036
- Reestablishing the trophic function of soils in disturbed territories in the North. Popov, A.I., et al., [1994,rus] 50-275
- Regeneration in cut natural stands of Dahurian larch. Tu, C.H., et al., [1991,chi] 50-5844
- Research on the natural resources and environment of the Ordos Plateau in Inner Mongolia. Li, B., ed., et al., [1990,chi] 50-2011
- Resource ecology for soil conservation in the cold deserts of the Himalaya. Gupta, R.K., [1994,eng] 50-5426

- Response functions of tree-ring chronologies in western Tianshan Mountains. Yuan, Y.J., et al., [1995,chi] 50-5626
- Response of alpine vegetation canopy to experimental wind barrier. Smith, B., et al., [1996,eng] 50-3786
- Revegetation of disturbed tundra in gravel excavation areas. Firsirot, N., et al., [1995,eng] 50-3843
- Revegetation of shrub tundra in disturbed soils. Harper, K.A., et al., [1996,eng] 50-5490
- Review of Late Cretaceous floras and climates of arctic Russia. Herman, A.B., [1994,eng] 50-902
- Review of working groups on paleoclimate reconstruction from extinct plant data. Hubbard, R.N.L.B., ed., [1994,eng] 50-918
- Road-related disturbances in an arctic watershed. Leadley, P.W., et al., [1996,eng] 50-4856
- Rock-weathering by the lichen *Lecidea auriculata* in an arctic alpine environment. McCarroll, D., et al., [1995,eng] 50-416
- Second-order dynamic model for the frost hardness of trees. Leinonen, I., et al., [1995,eng] 50-1146
- Sediment-based carbon nutrition in tropical alpine *Isotria*. Keeley, J.E., et al., [1994,eng] 50-3052
- Seed germination and seedling growth of *Carex doerrii* growing on alpine zone of Mt. Fuji. Kibe, T., et al., [1993,eng] 50-956
- Seed rain, seedling establishment and clonal growth strategies on a glacier foreland. Stöcklin, J., et al., [1996,eng] 50-5295
- Selenium in the saline podsol and desert soils of the northern foothills of Tian Shan. Wang, Z.Q., [1991,chi] 50-5131
- Sharp and gradual mountain timberlines as a result of species interaction. Armand, A.D., [1992,eng] 50-4073
- Shrub ecology in an arctic landscape. Elvebak, A., et al., [1995,eng] 50-6070
- Simulation of Scots pine regeneration under changing Finnish climate. Kellomäki, S., et al., [1995,eng] 50-1089
- Snow-vegetation relations in the forest tundra of New Quebec. Hudson Bay. Payette, S., et al., [1973,fre] 50-2852
- Snowbed bryophyte tissue composition related to air pollution. Woolgrove, C.E., et al., [1996,eng] 50-4004
- Soil degradation in the steppes of northern Mongolia. Opp, C., et al., [1993,eng] 50-1680
- Soil nutrient dynamics in East African alpine ecosystems. Rehder, H., [1994,eng] 50-3055
- Soil-mediated effects of atmospheric deposition on eastern U.S. spruce-fir forests. Johnson, D.W., et al., [1992,eng] 50-4055
- Soils and melon cultivation in Jiashi County, Xinjiang. Li, P.Q., et al., [1991,chi] 50-5123
- Soils of Xizang (Tibet). Gao, Y.X., et al., [1985,chi] 50-2297
- Some early Paleogene species from western Kamchatka. Lavrenko, O.D., et al., [1994,eng] 50-913
- Some late Pliocene and early Pleistocene pollen profiles from Poland. Stuchlik, L., [1994,eng] 50-916
- Spaced cutting in natural larch stands. Liu, X.T., et al., [1991,chi] 50-5849
- Spatial explicit modeling of arctic tundra landscapes. Ostendorf, B., [1994,eng] 50-698
- Species interactions during primary succession at Glacier Bay. Fastie, C.L., [1995,eng] 50-3745
- Sphagnum photosynthesis and primary production in arctic Alaska. Murray, K.J., [1994,eng] 50-689
- Spruce succession, disturbance, and geomorphology on the Tanana River floodplain, Alaska. Mann, D.H., et al., [1995,eng] 50-2159
- Spruce-fir forests of eastern North America. White, P.S., et al., [1992,eng] 50-4050
- Stability of coenopopulations of rose root stonecrop in the sub-polar Urals. Frolov, I.U.M., et al., [1994,rus] 50-264
- Stable isotopic investigation of nitrogen dynamics at Glacier Bay, Alaska. Hobbie, E.A., et al., [1995,eng] 50-3746
- Steep latitudinal gradient of solar ultraviolet-B radiation in the arctic-alpine life zone. Caldwell, M.M., et al., [1980,eng] 50-1410
- Studies on the soils and land resources of Xinjiang. Xinjiang Institute of Biology, Pedology, and Desert Research of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang shengwu tuang shamo yanjiusuo), Urumqi, [1991,chi] 50-5106
- Study on a high-efficiency new type of urea fertilizer using ¹⁵N. Xiong, J.M., et al., [1991,chi] 50-5129
- Study on alfalfa seedling cultivation technology in saline hardpan soil. Ma, S.Z., et al., [1991,chi] 50-5122
- Study on artificial acceleration of natural regeneration. Lou, Y.H., [1991,chi] 50-5845
- Study on predicting the fruit bearing patterns of Dahurian larch. Liu, X.T., et al., [1991,chi] 50-5840
- Study on shortening the seedling growing period for Dahurian larch (*Larix gmelinii*). Zhang, W.Y., [1991,chi] 50-5841
- Study on the causes and control of bitter pit in apples. Yu, Q.L., et al., [1991,chi] 50-5127
- Study on the dynamics of chemical elements in desert saline soil-plant systems. Wang, Z.Q., et al., [1991,chi] 50-5132
- Surface water chemistry and hydrology of a small arctic drainage basin. Everett, K.R., et al., [1996,eng] 50-4847
- Survey of fungal plant diseases in a part of high altitudes of central Himalaya. Bisht, G.S., et al., [1994,eng] 50-5432
- Sustenance of central Himalayan vegetational wealth at the brink of depletion. Negi, K.S., et al., [1994,eng] 50-5425
- Synthesis and conclusions from studies of red spruce decline. Johnson, A.H., et al., [1992,eng] 50-4059
- Tall and hard fescue responses to periodic soil water deficits. Brar, G.S., et al., [1995,eng] 50-2475

Plant physiology

- Temporal redistribution of subalpine meadow trees. Rochefort, R.M., et al., [1996,eng] 50-4336
- Terrain and vegetation of the Innvaik Creek watershed. Walker, D.A., et al., [1996,eng] 50-4842
- Tertiary climate changes in the Russian Far East. Krassilov, V.A., [1994,eng] 50-901
- Tibetan alpine ecosystem response to climatic changes. Zhang, Y.Q., et al., [1996,eng] 50-5495
- Towards a review of Tertiary palaeobotany in the boreal realm. Boulter, M.C., [1994,eng] 50-893
- Tree establishment in subalpine meadows. Woodward, A., et al., [1995,eng] 50-3322
- Tree seedling and krummholz growth in the forest tundra of Rocky Mountain National Park. Weisberg, P.J., et al., [1995,eng] 50-72
- Tree-ring chronologies at the upper tree line in eastern Tibet. Bräuning, A., [1994,ger] 50-4780
- Tree-ring dating of extreme water level events at Lake Bienville, subarctic Québec, Canada. Lepage, H., et al., [1996,eng] 50-4339
- Tropical alpine climates. Rundel, P.W., [1994,eng] 50-3045
- Tropical alpine ecology: progress and priorities. Rundel, P.W., et al., [1994,eng] 50-3061
- Tropical alpine environments—plant form and function. Rundel, P.W., ed., et al., [1994,eng] 50-3043
- Turnover and conservation of nutrients in the pachycaul *Senecio keniodendron*. Beck, E., [1994,eng] 50-3054
- Tussock grass community in a Himalayan alpine grassland. Rikhi, H.C., et al., [1994,eng] 50-5428
- Variable leaf respiration rates of arctic and subarctic plant leaves. Collier, D.E., [1996,eng] 50-4368
- Vascular flora of Pitrimysvuoma, a tundra-like area in northern Sweden. Sjörs, H., [1995,swe] 50-1530
- Vegetation and climate of Holocene megathermal in Zoige, northwestern Sichuan, China. Liu, G.X., et al., [1995,chi] 50-5635
- Vegetation and climatic changes in the Qinghai-Xizang Plateau. Liu, G.X., et al., [1995,chi] 50-5620
- Vegetation and ecology of tropical mires in the high Andes of northern Chile. Rühlsatz, B., [1995,ger] 50-4530
- Vegetation and nutrient pools in an arctic watershed. Hahn, S.C., et al., [1996,eng] 50-4843
- Vegetation chronosequence near Exit Glacier, Kenai Fjords National Park, Alaska, U.S.A. Helm, D.J., et al., [1995,eng] 50-3325
- Vegetation cover and moisture effects on solifluction in Spitsbergen. Schmitt, E., [1994,ger] 50-1591
- Vegetation dynamics and animal behaviour in an alpine pasture of the Garhwal Himalaya. Sundriyal, R.C., [1994,eng] 50-5427
- Vegetation geographical/synsociological research at Liefdefjord (NW Spitsbergen). Thannheiser, D., [1994,ger] 50-1590
- Vegetation patterns in the alpine zone of the Himalaya in eastern Nepal. Kikuchi, T., [1994,eng] 50-5419
- Vegetation succession in ice age dating. Frenzel, B., [1990,ger] 50-1785
- Vertical distribution of lichens on the mountain, Auccallajberg, northeastern Greenland. Hansen, E.S., [1996,eng] 50-4344
- Water in lichens at subzero temperatures. Schroeter, B., et al., [1995,eng] 50-2842
- Water limitations and plant community development in a polar desert. Gold, W.G., et al., [1995,eng] 50-2463
- Water relations in wet sedge-moss tundra at a high arctic oasis. Nosko, P., et al., [1995,eng] 50-74
- Wild flowering plants of the Greater Khingan Range and their value for park projects. Lu, Z., et al., [1991,chi] 50-5852
- Winter injury and developmental cold tolerance of red spruce. DeHayes, D.H., [1992,eng] 50-4057
- See [also]: Forest ecosystems
- Plant introduction**
See [also]: Introduced plants
- Plant location**
See [also]: Site surveys
- Plant physiology**
Acclimation of tree function and structure to climate change and implications to forest carbon balance. Hari, P., et al., [1994,eng] 50-3204
- Anatomy of tropical alpine plants. Carlquist, S., [1994,eng] 50-3049
- Antarctic macroalgae—sources of volatile halogenated organic compounds. Laturnus, F., et al., [1996,eng] 50-5594
- Antifreeze proteins in winter rye are similar to pathogenesis-related proteins. Hon, W.C., et al., [1995,eng] 50-2853
- Application of chemical fertilizers in Xinjiang. Huang, Z.W., et al., [1991,chi] 50-5128
- Arctic dwarf shrub response to simulated climatic warming. Michelsen, A., et al., [1996,eng] 50-5770
- Arctic plant chloroplast adaptation to low temperatures. Miroslavov, E.A., et al., [1996,eng] 50-6756
- Arctic soil microbial biomass response to fertilizer additions. Jonasson, S., et al., [1996,eng] 50-6230
- Atmospheric deposition and pollutant exposure of eastern U.S. forests. Mohnen, V.A., [1992,eng] 50-4052
- Atmospheric deposition effects on foliar injury and foliar leaching in red spruce. Schier, G.A., et al., [1992,eng] 50-4056
- Bacterial ecosystem dynamics in a high mountain lake. Alfreider, A., et al., [1996,eng] 50-5681
- Biochemistry of bacterial ice nuclei. Fall, R., et al., [1995,eng] 50-3274
- Biological ice nucleation and its applications. Lee, R.E., Jr., ed., et al., [1995,eng] 50-3270

Plant tissues

- Biology of high latitude kelp. Dunton, K.H., et al. [1995,eng] 50-4139
- Biomass and production of vascular plants in a mesotrophic fen. Saarinen, T., et al. [1994,eng] 50-3215
- Carotenoid composition and down regulation in three conifers. Adams, W.W., III, et al. [1995,eng] 50-1137
- Characteristics of the photosynthetic apparatus of plants. Plankov, V.I., et al. [1995,eng] 50-4107
- Chlorophyll fluorescence as measure of Douglas fir cold hardiness. Fisker, S.E., et al. [1995,eng] 50-1287
- Chlorophyll fluorescence as spruce frost hardiness indicator. Binder, W.D., et al. [1996,eng] 50-6519
- Climate change and the alpine flora: some perspectives. Theurillat, J.P. [1995,eng] 50-1015
- Climate change, plant reproductive ecology, and population dynamics. Molau, U., [1995,eng] 50-1009
- CO₂ exchange in some vascular plants inhabiting the polar Urals. Gerasimenko, T.V., et al. [1996,eng] 50-6757
- Cold acclimation of *Arabidopsis thaliana*. Uemura, M., et al. [1995,eng] 50-1462
- Cold acclimation of arctic grass photosynthetic apparatus. Koroleva, O.I.A., [1996,eng] 50-6755
- Cold acclimation of rye leaves during freeze/thaw cycles. Uemura, M., et al. [1995,eng] 50-3343
- Cold acclimatization biochemistry of rapeseed tissues. Smoleńska-Sym, G., et al. [1996,eng] 50-5463
- Cold tolerance in tropical alpine plants. Beck, E., [1994,eng] 50-3048
- Comparative water relations of tropical alpine plants. Meinzer, F.C., et al. [1994,eng] 50-3047
- Constraints on primary productivity in the coastal temperate forests of the Americas. Waring, R.H., et al. [1996,eng] 50-4062
- Control of epiphytic ice nucleation-active bacteria for management of plant frost injury. Lindow, S.E. [1995,eng] 50-3283
- Control of tundra methane emission by microbial oxidation. Whalen, S.C., et al. [1996,eng] 50-4850
- Decomposition of soil surface lichens in mountain tundra and taiga. Parinkina, O.M., et al. [1995,eng] 50-3875
- Deep supercooling in buds of woody plants. Quamme, H.A., [1995,eng] 50-3280
- Deep supercooling in woody plants and the role of cell wall structure. Wisniewski, M., [1995,eng] 50-3279
- Discovery of bacterial ice nucleation and its role in the injury of plants by frost. Upper, C.D., et al. [1995,eng] 50-3272
- Drought and salt resistant plants in arid regions of China. Omara, K., et al. [1991,jpn] 50-1442
- Dynamics of dissolved and particulate carbon in an arctic stream. Oswood, M.W., et al. [1996,eng] 50-4851
- Dynamics of montane treelines. Slatyer, R.O., et al. [1992,eng] 50-4072
- Early biochemical changes during acclimation of poplar to low temperature. Jouve, L., et al. [1995,eng] 50-3453
- Ecology and decline of red spruce in the eastern United States. Eagar, C., ed. et al. [1992,eng] 50-4049
- Ecology of ice nucleation-active bacteria. Hirano, S.S., et al. [1995,eng] 50-3273
- Ecophysiological sensitivity of terrestrial vascular plants to climate change. Jonasson, S., [1995,eng] 50-1007
- Ecophysiology of a snow-bed moss during snowmelt. Woolgrove, C.E., et al. [1996,eng] 50-4004
- Effect of climatic change on photosynthesis, respiration and transpiration of Scots pine. Laitinen, K., [1994,eng] 50-3210
- Effect of deicers on roadside trees in Hokkaido. Miyamoto, S., et al. [1995,jpn] 50-6788
- Effect of drainage intensity and fertilization on peat carbon compounds and their mineralization. Karisto, M., et al. [1994,eng] 50-3225
- Effect of temperature on the phenology of perennial plant species. Lappalainen, H., et al. [1994,eng] 50-3206
- Effects of air pollution on carbon allocation in red spruce. McLaughlin, S.B., et al. [1992,eng] 50-4058
- Effects of climate change on alpine plant diversity and distribution. Guisan, A., et al. [1995,eng] 50-1016
- Effects of climatic change on onset of growth and risk of frost damage in Scots pine. Hänninen, H., [1994,eng] 50-3208
- Effects of dehydration and freezing stress on brown algae. Pearson, G.A., et al. [1995,eng] 50-1523
- Effects of deicing salt on vegetation along highways in Sweden. Bäckman, L., et al. [1995,eng] 50-4602
- Effects of elevated N-input and CO₂ on *Sphagnum* with different trophic level. Jauhainen, J., et al. [1994,eng] 50-3214
- Effects of nutrient availability on arctic sedge growth. Gebauer, R.L.E., et al. [1995,eng] 50-2540
- Effects of plant cellular tissue structure on freezing tolerance. Fujikawa, S., et al. [1996,eng] 50-5675
- Environmental biology of a tropical treeline species, *Polylepis sericea*. Goldstein, G., et al. [1994,eng] 50-3050
- Evergreen shrub leaf variations in taiga and tundra landscapes. Kudo, G., [1995,eng] 50-2732
- Fine root production and decomposition on drained peatlands. Finér, L., et al. [1994,eng] 50-3217
- Freezing characteristics of rigid plant tissues. Rajashekar, C.B., et al. [1996,eng] 50-6554
- Freezing resistance in the stem pith of cabbage. Manley, R.C., [1994,eng] 50-674
- Freezing tolerance in plants: an overview. Chen, T.H.H., et al. [1995,eng] 50-3277
- Frost resistance of artificially deacclimated pine needles. Taulavuori, K., et al. [1996,eng] 50-4151

- Frost resistance, photosynthesis and respiration in cells and chloroplasts under cold hardening. Klimov, S.V., et al. [1994,rus] 50-4201
- Functional significance of inflorescence pubescence in tropical alpine species of *Puya*. Miller, G.A., [1994,eng] 50-3053
- Genetic differentiation in the population of common pine in northwestern Russia. IAnbaev, I.U.A., et al. [1994,rus] 50-272
- Grass photosynthesis variations under cold climatic conditions. Siutkina, A.V., et al. [1996,eng] 50-6754
- Heavy metals in the podsol desert soils of the Fukang region. Xie, Y.Y., et al. [1991,chi] 50-5133
- High-latitude forest ecophysiology during global warming. Kohlmaier, G.H., et al. [1995,eng] 50-771
- Hydrological controls on ecosystem gas exchange in an arctic landscape. Ostendorf, B., et al. [1996,eng] 50-4855
- Ice nucleation activity associated with plants and fungi. Ashworth, E.N., et al. [1995,eng] 50-3278
- Ice nucleation activity in antarctic plants. Worland, M.R., et al. [1996,eng] 50-6221
- Ice nucleation genes as reporters. Panopoulos, N.J., [1995,eng] 50-3285
- Impact of atmospheric changes on alpine vegetation: the ecophysiological perspective. Körner, C., [1995,eng] 50-1014
- Impact of deicing chemicals on plants in Hokkaido. Miyamoto, S., et al. [1994,jpn] 50-2828
- Isolation and identification of antifreeze protein with high activity in *Ammopiptanthus mongolicus*. Fei, Y.B., et al. [1994,chi] 50-1835
- Isotope analysis of variable subarctic plant nutrient access. Michelsen, A., et al. [1996,eng] 50-5772
- Isotopic analysis of phosphorus in soils and crops of Xinjiang. Wu, G.H., et al. [1991,chi] 50-5130
- Isotopic tracers for investigating hydrological processes. Cooper, L.W., et al. [1996,eng] 50-4846
- Landscape function and disturbance in arctic tundra. Reynolds, J.F., ed. et al. [1996,eng] 50-4838
- Landscape patterns of carbon dioxide exchange in tundra ecosystems. Oberbauer, S.F., et al. [1996,eng] 50-4849
- Leaf extract allelopathic effects on arctic graminoids. Michelsen, A., et al. [1995,eng] 50-1091
- Long-term plant persistence on highly acidic soils. Palazzo, A.J., et al. [1995,eng] 50-5593
- Microscopy of xylem ray supercooling wood tissues response to freezing stress. Ristic, Z., et al. [1995,eng] 50-3341
- Microsporangium of the Siberian larch in western Siberian Zapolyar'e. Rozhdnestvenski, I.U.F., et al. [1995,eng] 50-3966
- Morphological and physiological radiation in páramo *Draba*. Pfitsch, W.A., [1994,eng] 50-3051
- Nutrient availability and uptake by tundra plants. Schimel, J.P., et al. [1996,eng] 50-4848
- Nutrient availability in Alaskan upland forest sites. Yarie, J., et al. [1994,eng] 50-4798
- Palaeo-ecophysiological studies on cretaceous and tertiary fossil floras. Beerling, D.J., [1994,eng] 50-895
- Patch and landscape models of arctic tundra: potentials and limitations. Reynolds, J.F., et al. [1996,eng] 50-4852
- Perspectives of plant cold tolerance: physiology and molecular responses. Kaye, C., et al. [1995,eng] 50-4085
- Phenotype and chromosome variability in larch in Ural forest ecosystems. Putenikhin, V.P., et al. [1994,rus] 50-270
- Physiological and genetical adaptation of forest trees to climatic changes. Beuker, E., et al. [1994,eng] 50-3205
- Physiological responses of *Pinus sylvestris* on changing carbon dioxide and ozone concentration. Holopainen, T., et al. [1994,eng] 50-3232
- Plant communities in alpine habitat with special reference to Garhwal Himalaya. Rawat, D.S., et al. [1994,eng] 50-5420
- Plant tissue protein associated with pine tree frost hardiness. Ekramoddoullah, A.K.M., et al. [1995,eng] 50-1088
- Population-genetic differentiation in mountain Sukaczew larch. Timerianov, A.S.H., et al. [1994,rus] 50-271
- Possible responses of mountain vegetation to a global climatic change. Ozenda, P., et al. [1995,eng] 50-1017
- Potential ecological impacts of climate change in the Alps and Fennoscandian mountains. Guisan, A., ed. et al. [1995,eng] 50-1002
- Radiation frost susceptibility and the association between sky exposure and leaf size. Jordan, D.N., et al. [1995,eng] 50-2132
- Recultivating vegetative cover in the Far North. Khodachek, E.A., [1994,rus] 50-294
- Reestablishing the trophic function of soils in disturbed territories in the North. Popov, A.I., et al. [1994,rus] 50-275
- Relationship between water content and frost tolerance in shoots of hardwood seedlings. Calmé, S., et al. [1996,eng] 50-3296
- Release of volatile halogenated organic compounds by unialgal cultures of polar macroalgae. Laturnus, F., [1995,eng] 50-1202
- Response of boreal forest ecosystems to climatic change and its silvicultural implications: modelling. Kellomäki, S., et al. [1994,eng] 50-3209
- Reversible photoinhibition in antarctic moss during freezing and thawing. Lovelock, C.E., et al. [1995,eng] 50-2854
- Road-related disturbances in an arctic watershed. Leadley, P.W., et al. [1996,eng] 50-4856
- Scanning electron microscopy of free water in frozen plant tissues. Yaklich, R.W., et al. [1996,eng] 50-5209

- Seasonal changes in photosystem II organisation and pigment composition in *Pinus sylvestris*. Ottander, C., et al. [1995,eng] 50-1130
- Seasonal variations in frost tolerance and sugar content of two *Plagiomnium* species. Rütten, D., et al. [1993,eng] 50-6524
- Sediment-based carbon nutrition in tropical alpine *Isoetes*. Keeley, J.E., et al. [1994,eng] 50-3052
- Selection of cold-tolerant plants for growth in soils contaminated with organics. Rogers, H.B., et al. [1995,eng] 50-4609
- Sensitivity of alpine plants to potential climate changes. Skre, O., [1995,eng] 50-1008
- Simulation of Scots pine regeneration under changing Finnish climate. Kellomäki, S., et al. [1995,eng] 50-1089
- Snowbed bryophyte tissue composition related to air pollution. Woolgrove, C.E., et al. [1996,eng] 50-4004
- Soil nutrient dynamics in East African alpine ecosystems. Rehder, H., [1994,eng] 50-3055
- Soil properties beneath ceanothus and pine stands in the eastern Sierra Nevada. Johnson, D.W., [1995,eng] 50-630
- Soil-mediated effects of atmospheric deposition on eastern U.S. spruce-fir forests. Johnson, D.W., et al. [1992,eng] 50-4055
- Stability of coenopopulations of rose root stoneworm in the sub-polar Urals. Prolov, I.U.M., et al. [1994,rus] 50-264
- Statistical analysis of freezing tolerance indices from plant electrolyte variations. Anisko, T., et al. [1995,eng] 50-3612
- Strategy for the protection of pine crops in territories being recultivated. Iurkina, E.V., et al. [1994,rus] 50-282
- Study on a high-efficiency new type of urea fertilizer using ¹⁵N. Xiong, J.M., et al. [1991,chi] 50-5129
- Study on predicting the fruit bearing patterns of Dahurian larch. Liu, X.T., et al. [1991,chi] 50-5840
- Study on shortening the seedling growing period for Dahurian larch (*Larix gmelinii*). Zhang, W.Y., [1991,chi] 50-5841
- Study on the causes and control of bitter pit in apples. Yu, Q.L., et al. [1991,chi] 50-5127
- Study on the dynamics of chemical elements in desert saline soil-plant systems. Wang, Z.Q., et al. [1991,chi] 50-5132
- Survey of fungal plant diseases in a part of high altitudes of central Himalaya. Bisht, G.S., et al. [1994,eng] 50-5432
- Survival and regeneration of dormant silver birch buds stored at super-low temperatures. Rynänen, L., [1996,eng] 50-6745
- Synthesis and conclusions from studies of red spruce decline. Johnson, A.H., et al. [1992,eng] 50-4059
- Tall and hard fescue responses to periodic soil water deficits. Brar, G.S., et al. [1995,eng] 50-2475
- Temperatures in the plant communities of West Spitsbergen. Moczyłowski, E., et al. [1993,eng] 50-2192
- Tree leaf cell response to cold acclimation. Rajashekar, C.B., et al. [1996,eng] 50-6555
- Tree seedling and krummholz growth in the forest tundra of Rocky Mountain National Park. Weisberg, P.J., et al. [1995,eng] 50-72
- Tree tissue xylem dysfunction from freezing stress. Hacke, U., et al. [1996,eng] 50-5773
- Tropical alpine environments—plant form and function. Rundel, P.W., ed. et al. [1994,eng] 50-3043
- Turnover and conservation of nutrients in the pechycal *Senecio keniodendron*. Beck, E., [1994,eng] 50-3054
- Variable leaf respiration rates of arctic and subarctic plant leaves. Collier, D.E., [1996,eng] 50-4368
- Vegetation and nutrient pools in an arctic watershed. Hahn, S.C., et al. [1996,eng] 50-4843
- VII. Contents of Cu, Mn, Zn, Pb and Cd in plants and soil on Western Spitsbergen—Bellund region. Jóźwik, Z., et al. [1993,eng] 50-2188
- Water limitations and plant community development in a polar desert. Gold, W.G., et al. [1995,eng] 50-2463
- Water relations in wet sedge-moss tundra at a high arctic oasis. Nosko, P., et al. [1995,eng] 50-74
- Willow leaf wax variations in relation to cold survival. Hietala, T., et al. [1995,eng] 50-1649
- Winter injury and developmental cold tolerance of red spruce. DeHayes, D.H., [1992,eng] 50-4057
- Plant tissues**
- Adaptation of tree seedlings to subalpine meadow soil moisture variations. Kuuluvainen, T., et al. [1996,eng] 50-4337
- Alpine ecosystem snow depths derived from tree damage. Woolbridge, G.L., et al. [1996,eng] 50-4629
- Analytical modelling of heat transfer from a single slab in freezing. Dincer, I., [1995,eng] 50-3818
- Anatomy of tropical alpine plants. Carlquist, S., [1994,eng] 50-3049
- Arctic plant chloroplast adaptation to low temperatures. Miroslavov, E.A., et al. [1996,eng] 50-6756
- Atmospheric deposition effects on foliar injury and foliar leaching in red spruce. Schier, G.A., et al. [1992,eng] 50-4056
- Biochemistry of bacterial ice nuclei. Fall, R., et al. [1995,eng] 50-3274
- Biological ice nucleation and its applications. Lee, R.E., Jr., ed. et al. [1995,eng] 50-3270
- Carotenoid composition and down regulation in three conifers. Adams, W.W., III, et al. [1995,eng] 50-1137
- Climatic significance of bristlecone pine frost-ring records. Brunstein, F.C., [1996,eng] 50-4338
- Clonal diversity in an arctic sedge. Jonsson, B.O., et al. [1996,eng] 50-6076
- Cold acclimation of *Arabidopsis thaliana*. Uemura, M., et al. [1995,eng] 50-1462
- Cold acclimation of rye leaves during freeze/thaw cycles. Uemura, M., et al. [1995,eng] 50-3343

Plants (botany)

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- Cold acclimatization biochemistry of rapeseed tissues. Smoleńska-Sym, G., et al. [1996.eng] 50-5463
- Cold resistance mechanisms in high desert Andean plants. Squeo, F.A., et al. [1996.eng] 50-5774
- Cold tolerance in tropical alpine plants. Beck, E., [1994.eng] 50-3048
- Control of epiphytic ice nucleation-active bacteria for management of plant frost injury. Lindow, S.E., [1995.eng] 50-3283
- Decomposition of needle litter in a forest ecosystem. Berg, B., et al. [1995.eng] 50-2731
- Deep supercooling in buds of woody plants. Quamme, H.A., [1995.eng] 50-3280
- Deep supercooling in woody plants and the role of cell wall structure. Wisniewski, M., [1995.eng] 50-3279
- Discovery of bacterial ice nucleation and its role in the injury of plants by frost. Upper, C.D., et al. [1995.eng] 50-3272
- Dusting river ice with leaf mulch to aid in ice deterioration. Hachuel, R.B., et al. [1996.eng] 50-6072
- Early biochemical changes during acclimation of poplar to low temperature. Jouve, L., et al. [1995.eng] 50-3453
- Ecology and decline of red spruce in the eastern United States. Eagar, C., et al. [1992.eng] 50-4049
- Ecology of ice nucleation-active bacteria. Hirano, S.S., et al. [1995.eng] 50-3273
- Effect of electroporation on intracellular ice formation in rye leaf protoplasts. Chandrasekaran, M., et al. [1995.eng] 50-1465
- Effects of air pollution on carbon allocation in red spruce. McLaughlin, S.B., et al. [1992.eng] 50-4058
- Effects of enhanced UV-B radiation on the growth of dwarf shrubs in a subarctic heathland. Johanson, U., et al. [1995.eng] 50-3618
- Effects of plant cellular tissue structure on freezing tolerance. Fujikawa, S., et al. [1996.eng] 50-5675
- Effects of smelter emissions on pine tree frost hardness. Suñinen, M.L., et al. [1996.eng] 50-4309
- Effects of tree litter decomposition on forest soil composition. Harris, M.M., et al. [1996.eng] 50-3309
- Electron microscopy of frozen pea leaf cellular microstructure. Kaneko, Y., et al. [1996.eng] 50-5252
- Estimating ice-active bacterial population on mango leaves. Cazorla, F.M., et al. [1995.eng] 50-1652
- Freeze preparation of plant tissue for electron microscopy. Adler, K., et al. [1996.eng] 50-5485
- Freezing characteristics of rigid plant tissues. Rajashekar, C.B., et al. [1996.eng] 50-6554
- Freezing resistance in the stem pith of cabbage. Manley, R.C., [1994.eng] 50-674
- Freezing tolerance in plants: an overview. Chen, T.H.H., et al. [1995.eng] 50-3277
- Frost hardness of 16 European provenances of sessile oak growing in Scotland. Deans, J.D., et al. [1996.eng] 50-4329
- Frost resistance of artificially deacclimated pine needles. Taulavuori, K., et al. [1996.eng] 50-4151
- Frost resistance, photosynthesis and respiration in cells and chloroplasts under cold hardening. Klimov, S.V., et al. [1994.rus] 50-4201
- Functional significance of inflorescence pubescence in tropical alpine species of *Puya*. Miller, G.A., [1994.eng] 50-3053
- Grass photosynthesis variations under cold climatic conditions. Siutkina, A.V., et al. [1996.eng] 50-6754
- Handwarmers benefit young citrus trees during freezes. Parsons, L.R., et al. [1995.eng] 50-872
- Ice nucleation activity associated with plants and fungi. Ashworth, E.N., et al. [1995.eng] 50-3278
- Ice nucleation genes as reporters. Panopoulos, N.J., [1995.eng] 50-3285
- Isolation and identification of antifreeze protein with high activity in *Ammopiptanthus mongolicus*. Fei, Y.B., et al. [1994.chi] 50-1835
- Isotopic analysis of phosphorus in soils and crops of Xinjiang. Wu, G.H., et al. [1991.chi] 50-5130
- Magnetic resonance imaging of frozen plant tissues. Gamble, G.R., [1994.eng] 50-3360
- Microscopy of xylem ray supercooling wood tissues response to freezing stress. Ristic, Z., et al. [1995.eng] 50-3341
- Molecular and genetic diversity of arctic bedding plants. Abbott, R.J., et al. [1995.eng] 50-4093
- Morphological and physiological radiation in páramo *Draba*. Pfisch, W.A., [1994.eng] 50-3051
- Nilssoniocladus* in the Cretaceous Arctic: new species and biological insights. Spicer, R.A., et al. [1996.eng] 50-6541
- Nitrogen fixation in arctic vegetation and soils from Svalbard, Norway. Solheim, B., et al. [1996.eng] 50-4007
- Palaeo-ecophysiological studies on Cretaceous and tertiary fossil floras. Beerling, D.J., [1994.eng] 50-895
- Paramo microclimate and leaf thermal balance of Andean giant rosette plants. Meinzer, F.C., et al. [1994.eng] 50-3046
- Perspectives of plant cold tolerance: physiology and molecular responses. Kaye, C., et al. [1995.eng] 50-4085
- Phenotypic plasticity in leaves of four species of arctic *Festuca* (Poaceae). Ramesar-Fortner, N.S., et al. [1995.eng] 50-3301
- Plant tissue protein associated with pine tree frost hardness. Ekramoddoullah, A.K.M., et al. [1995.eng] 50-1088
- Radiation frost susceptibility and the association between sky exposure and leaf size. Jordan, D.N., et al. [1995.eng] 50-2132
- Recent white spruce dynamics at the subarctic alpine treeline of north-western Canada. Szeicz, J.M., et al. [1995.eng] 50-3036
- Relationship between water content and frost tolerance in shoots of hardwood seedlings. Calmé, S., et al. [1996.eng] 50-3296
- Responses of arctic polar desert plant litter chemistry to climatic changes. Robinson, C.H., et al. [1995.eng] 50-5100
- Reversible photoinhibition in antarctic moss during freezing and thawing. Lovelock, C.E., et al. [1995.eng] 50-2854
- Scanning electron microscopy of free water in frozen plant tissues. Yaklich, R.W., et al. [1996.eng] 50-5209
- Seasonal changes in photosystem II organisation and pigment composition in *Pinus sylvestris*. Ottander, C., et al. [1995.eng] 50-1130
- Sediment-based carbon nutrition in tropical alpine *Isoetes*. Keeley, J.E., et al. [1994.eng] 50-3052
- Snowbed bryophyte tissue composition related to air pollution. Woolgrove, C.E., et al. [1996.eng] 50-4004
- Spectral quality and absorption of solar radiation in a mountain birch forest. Abisko, Sweden. Ovsted, M., et al. [1995.eng] 50-2813
- Statistical analysis of freezing tolerance indices from plant electrolyte variations. Anisko, T., et al. [1995.eng] 50-3612
- Study on the causes and control of bitter pit in apples. Yu, Q.L., et al. [1991.chi] 50-5127
- Swedish forest production losses due to summer frost. Verwijst, T., et al. [1996.eng] 50-6753
- Synthesis and conclusions from studies of red spruce decline. Johnson, A.H., et al. [1992.eng] 50-4059
- Tree leaf cell response to cold acclimation. Rajashekar, C.B., et al. [1996.eng] 50-6555
- Tree ring value determination of climatic change in Switzerland. Vogel, R.B., et al. [1996.eng] 50-6714
- Tree tissue xylem dysfunction from freezing stress. Hacke, U., et al. [1996.eng] 50-5773
- Tree-ring dating of extreme water level events at Lake Bienville, subarctic Québec, Canada. Lepage, H., et al. [1996.eng] 50-4339
- Trichloroacetic acid in conifer needles and arboreal lichens in forest environments. Juuti, S., et al. [1996.eng] 50-4206
- Turnover and conservation of nutrients in the pachycaul *Senecio keniodendron*. Beck, E., [1994.eng] 50-3054
- Willow leaf wax variations in relation to cold survival. Hietala, T., et al. [1995.eng] 50-1649
- Winter injury and developmental cold tolerance of red spruce. DeHayes, D.H., [1992.eng] 50-4057
- Plants (botany)**
- Additions and range extensions to the vascular plant flora of the Northwest Territories, Canada. Cody, W.J., [1996.eng] 50-6342
- Analyzing the composition of tundra shrubs in Central Yamal. Arefev, S.P., [1994.rus] 50-265
- Anatomy of tropical alpine plants. Carlquist, S., [1994.eng] 50-3049
- Anthropogenic effect on plant communities on Oktiabr'skaya Revoliutsiya I. Gavrilov, M.V., [1991.rus] 50-1309
- Arctic lichen collections from 1959 excursion. Thomson, J.W., et al. [1992.eng] 50-6522
- Arctic soil microbial biomass response to fertilizer additions. Jonasson, S., et al. [1996.eng] 50-6230
- Assessing sensitivities of forests to climate change. Fischlin, A., [1995.eng] 50-1018
- Assessment on the diversity and status of the alpine plants of Indian Himalaya. Samant, S.S., [1994.eng] 50-5424
- Barley genetic resources on the Qinghai-Xizang Plateau. Xu, T.W., [1992.chi] 50-1492
- Biota of the western Siberian Subarctic as an indicator of the ecological-geochemical situation in the region. Savchenko, N.V., [1994.rus] 50-298
- Bryophytes collected in arctic tundra of the Lyellstranda region. Swies, F., et al. [1993.eng] 50-2193
- Climate change and the alpine flora: some perspectives. Theurillat, J.P., [1995.eng] 50-1015
- Climate change, plant reproductive ecology, and population dynamics. Molau, U., [1995.eng] 50-1009
- Clonal diversity in an arctic sedge. Jonsson, B.O., et al. [1996.eng] 50-6076
- Computer database on anthropogenic arctic vegetation. Sumina, O.I., [1994.rus] 50-261
- Development of the North and the problem of recultivation. International Conference on the Development of the North and the Problem of Recultivation, 2nd, Syktyvkar, Apr. 25-28, 1994, [1994.rus] 50-251
- Differences in carbon accumulation of two cut-over peatlands in Finland. Roderfeld, H., et al. [1994.eng] 50-3226
- Distribution of vascular plants in Sørkapp Land (Spitsbergen). Dubiel, E., [1993.eng] 50-2185
- Diversity of pine forests in the Lapland State Reserve, the Kola Peninsula. Neshataev, V.I.U., et al. [1995.eng] 50-3174
- Dry tundra succession in Central Chukotka. Kucherov, I.B., [1995.eng] 50-3173
- Effect of root fungi on subarctic plant growth. Fernando, A.A., et al. [1996.eng] 50-6747
- Effect of temperature on the phenology of perennial plant species. Lappalainen, H., et al. [1994.eng] 50-3206
- Effect of the mineral composition of soils on the coastal vegetation of the Chukotskiy Peninsula. Sergienko, L.A., [1991.rus] 50-1308
- Effects of climate change on alpine plant diversity and distribution. Guisan, A., et al. [1995.eng] 50-1016
- Effects of seed treatments on germination. Diemand, D., et al. [1994.eng] 50-5836
- Enzymatic and morphological variations in arctic grasses. Aiken, S.G., et al. [1995.eng] 50-1068
- Evaluating the anthropogenic transformation of tundra vegetation in the Nenets Autonomous District. Akul'shina, N.P., et al. [1994.rus] 50-257
- Evaluation of wheat germplasm resources in Xizang. Huang, H.L., et al. [1992.chi] 50-1491
- Forecasting earth surface temperature for the optimal application of frost protection methods. Krasovitski, B., et al. [1996.eng] 50-5021
- Frost resistance, photosynthesis and respiration in cells and chloroplasts under cold hardening. Klimov, S.V., et al. [1994.rus] 50-4201
- Growing perennial grasses on dredging grounds in Southern Yakutia. Petrova, A.N., [1994.rus] 50-288
- High altitude flora of western Himalaya: peculiarities and conservation. Aswal, B.S., [1994.eng] 50-5421
- History of the exploration of the vascular flora of Greenland. Pringle, J.S., [1995.eng] 50-3413
- Identification of fossil plant fragments in glaciers. Lindskog, A., et al. [1995.swe] 50-1470
- Intralandscape diversity of the flora of the Tazovsky Peninsula. Khitun, O.V., [1995.eng] 50-3172
- Introduction to tropical alpine vegetation. Smith, A.P., [1994.eng] 50-3044
- Isolation and identification of antifreeze protein with high activity in *Ammopiptanthus mongolicus*. Fei, Y.B., et al. [1994.chi] 50-1835
- Level of biomass and chlorophyll content of the plant communities, Arctowski Station. Barcikowski, A., et al. [1989.pol] 50-2923
- Lichen genus *Caloplaca* in polar regions. Seehing, U., et al. [1995.eng] 50-3778
- Lichens as an object of technogenic impact. Magomedova, M.A., et al. [1994.rus] 50-267
- Materials for a flora of the leafy mosses of the European part of the Northern Urals. Zhelznova, G.V., et al. [1995.eng] 50-3177
- Molecular and genetic diversity of arctic bedding plants. Abbott, R.J., et al. [1995.eng] 50-4093
- Moss species discovered in Arctic Canada. Hedderson, T.A., et al. [1992.eng] 50-6523
- Natural recovery and assisted revegetation in dwarf shrub dominated communities in Greenland. Strandberg, B., [1994.eng] 50-305
- Northern forest plants under the pressure of environmental changes. Laine, K., et al. [1994.eng] 50-3231
- Overview of the reproductive biology of *Espeletia* (Asteraceae) in the Venezuelan Andes. Berry, P.E., et al. [1994.eng] 50-3056
- Plant species diversity of Bely Island. Rebristaia, O.V., [1995.eng] 50-3176
- Population dynamics of a Hawaiian alpine rosette plant. Rundel, P.W., et al. [1994.eng] 50-3059
- Possibility of using soil algae in improving disturbed tundra lands. Dubovik, I.E., et al. [1994.rus] 50-280
- Possible responses of mountain vegetation to a global climatic change. Ozenda, P., et al. [1995.eng] 50-1017
- Potential ecological impacts of climate change in the Alps and Fennoscandian mountains. Guisan, A., ed, et al. [1995.eng] 50-1002
- Protection of relict associations on arctic islands and the Chukotskiy tundra. Iurisev, B.A., [1991.rus] 50-1307
- Protection of the vegetation cover in the Far North: problems and prospects. Druzhinina, O.A., et al. [1990.rus] 50-92
- Reaction of plant communities to technogenic disturbances in tundras in Yamal. Khitun, O.V., et al. [1994.rus] 50-258
- Recultivating vegetative cover in the Far North. Khodachek, E.A., [1994.rus] 50-294
- Reestablishing the trophic function of soils in disturbed territories in the North. Popov, A.I., et al. [1994.rus] 50-275
- Revegetation on tracked vehicle paths, Vestspitsbergen. Koroleva, N.E., [1995.eng] 50-2569
- Revegetation trials in Western Siberia: the growth of a cooperative effort. Younkun, W., et al. [1994.eng] 50-306
- Revision of structural classifications of some arctic and alpine herb species. Chmielewski, J.G., [1995.eng] 50-873
- Role of the varieties of the *Mniaceae* family in tundra communities of Spitsbergen. Karozmarz, K., et al. [1989.pol] 50-2924
- Scanning electron microscopy of free water in frozen plant tissues. Yaklich, R.W., et al. [1996.eng] 50-5209
- Seasonal changes in photosystem II organisation and pigment composition in *Pinus sylvestris*. Ottander, C., et al. [1995.eng] 50-1130
- Seasonal variations in frost tolerance and sugar content of two *Plagiomnium* species. Rütten, D., et al. [1993.eng] 50-6524
- Second-order dynamic model for the frost hardness of trees. Leinonen, I., et al. [1995.eng] 50-1146
- Sediment-based carbon nutrition in tropical alpine *Isoetes*. Keeley, J.E., et al. [1994.eng] 50-3052
- Simulation of foam protection of plants against frost. Krasovitski, B., et al. [1995.eng] 50-961
- Some regularities in the formation of algal flora in disturbed tundra ecosystems. Sharipova, M.I.U., et al. [1994.rus] 50-268
- Stability of coenopopulations of rose root stonecrop in the subpolar Urals. Frolov, I.U.M., et al. [1994.rus] 50-264
- Sustenance of central Himalayan vegetational wealth at the brink of depletion. Negi, K.S., et al. [1994.eng] 50-5425
- Taxus* in plant communities of the Mazovian Interglacial Age in Central Europe. Krupidski, K.M., [1995.eng] 50-2613

Plants (industries)

Pleistocene

- Temperatures in the plant communities of West Spitsbergen. Moczydłowski, E., et al. [1993,eng] 50-2192
- Tropical alpine ecology: progress and priorities. Rundel, P.W., et al. [1994,eng] 50-3061
- Tropical alpine environments—plant form and function. Rundel, P.W., ed. et al. [1994,eng] 50-3043
- Variable leaf respiration rates of arctic and subarctic plant leaves. Collier, D.E., [1996,eng] 50-4368
- Vascular flora of Pirttimysvuoma, a tundra-like area in northern Sweden. Sjörs, H., [1995,swe] 50-1530
- Vegetation cover in technogenic regions of Northern Europe. Grudev, B.I., et al. [1994,rus] 50-263
- Vegetation in industrial northeastern Yakutia and its recultivation. Mironova, S.I., [1994,rus] 50-266
- VII. Contents of Cu, Mn, Zn, Pb and Cd in plants and soil on Western Spitsbergen—Beilsund region. Jóźwik, Z., et al. [1993,eng] 50-2188
- Water in lichens at subzero temperatures. Schroeter, B., et al. [1995,eng] 50-2842
- See [also]: Algae; Grasses; Introduced plants; Lichens; Mosses; Trees (plants); Vegetation
- Plants (industries)**
See [also]: Industrial buildings
- Plastic coatings**
See [also]: Protective coatings
- Plastic deformation**
Analysis of thermal stresses around a cryosurgical probe. Rabin, Y., et al. [1996,eng] 50-5814
- Ductile deformation of columnar saline ice under triaxial compressive loading. Melton, J.S., et al. [1993,eng] 50-2957
- Effect of X-radiation on the plastic deformation of ice. Hu, X.H., et al. [1996,eng] 50-5866
- Effects of localized deformation on melting processes in ice. Wilson, C.J.L., et al. [1996,eng] 50-5470
- Ice/metal interfaces: fracture energy and fractography. Wei, Y., et al. [1996,eng] 50-5243
- Modelling and calculating the thermoplastic state of frozen ground. Dubina, M.M., et al. [1991,rus] 50-5054
- Observations of pressure effects on the creep of ice single crystals. Cole, D.M., [1996,eng] 50-4901
- Stresses in sea ice in the neighboring force interaction zone. Nikitin, V.A., et al. [1995,eng] 50-5522
- Structure of ordinary ice I_h. Part II: Defects in ice. Volume 2: Dislocations and plane defects. Petrenko, V.F., et al. [1994,eng] 50-390
- Two-dimensional dynamic simulation of solid fracture. Part I: description of the model. Potapov, A.V., et al. [1995,eng] 50-947
- Plastic properties**
Basic processes determining the rheological behavior of plastic-frozen ground under stress. Ukhov, S.B., et al. [1996,rus] 50-6827
- See [also]: Ice plasticity; Snow plasticity
- Plasticity tests**
Strength of composite ice-resisting walls subjected to combined loads. Stephens, M.J., et al. [1990,eng] 50-95
- Plastics**
Development of ski manufacturing technology as seen in the patents. Shimada, T., [1995,jpn] 50-3516
- Durability issues of FRP composites in offshore structures. Dutta, P.K., [1995,eng] 50-217
- Influence of moisture on FRP composites. Bhattacharya, R.K., et al. [1995,eng] 50-2468
- Low-temperature and freeze-thaw durability of thick composites. Dutta, P.K., et al. [1996,eng] 50-5659
- Polymer composition for plastic material. Lerner, B.Sh., et al. [1992,rus] 50-1939
- Problem of plastic pipeline construction in the oil and gas industry. Zaitsev, K.I., [1995,rus] 50-1076
- Sampling trace-level organics with polymeric tubings. Parker, L.V., et al. [1996,eng] 50-5672
- Sorption and leaching of trace-level metals by polymeric well casings. Ranneby, T.A., et al. [1996,eng] 50-5911
- Strengthening and reinforcing concrete with composites. Dutta, P.K., et al. [1995,eng] 50-2467
- See [also]: Cellular plastics
- Plastics ice friction**
Capillary bonding of wet surfaces and adhesion of skis to ice. Colbeck, S.C., [1996,eng] 50-6038
- Development of ski manufacturing technology as seen in the patents. Shimada, T., [1995,jpn] 50-3516
- Plastics snow friction**
Apparatus and method for powered thermal friction adjustment. Tabar, W.J., [1995,eng] 50-3462
- Capillary bonding of wet surfaces and adhesion of skis to ice. Colbeck, S.C., [1996,eng] 50-6038
- Coefficient of kinetic friction between ski and snow. Leino, M.A.H., et al. [1984,eng] 50-3838
- Development of ski manufacturing technology as seen in the patents. Shimada, T., [1995,jpn] 50-3516
- Development of ski manufacturing technology as seen in the patents. Shimada, T., [1995,jpn] 50-3516
- Measurements of friction between snow and ski running surfaces. Part 2. Palosuo, E., et al. [1979,fin] 50-4025
- Optimal structural damping of skis using a genetic algorithm. Marcellin, J.L., et al. [1995,eng] 50-890
- Optimization of a racing ski. Carlsson, P., et al. [1995,eng] 50-891
- Sliding of skis. Midol, A., et al. [1986,fre] 50-487
- Towed geophone system for use in snow-covered terrain. King, E.C., et al. [1996,eng] 50-6225
- Plates**
Free vibrations of a snowboard. Sakata, T., et al. [1996,eng] 50-4568
- Method to prevent weld zone corrosion in offshore structures. DeGeer, D.D., et al. [1991,eng] 50-1726
- Post-yield strength of icebreaking ship structural members. DesRochers, C.G., et al. [1995,eng] 50-877
- Pleistocene**
"Ice Mountain"—a Pleistocene relict in the north of West Siberia. Rajamäe, R., et al. [1989,eng] 50-2897
- 100 years of glacial theory and Quaternary topography of today. Gellert, J.F., [1990,ger] 50-1781
- 12,000 year radiocarbon date of deglaciation from the continental divide of northwestern Montana. Carrara, P.E., [1995,eng] 50-3299
- 135,000-year Vostok SPECTMAP common temporal framework. Sowers, T., et al. [1993,eng] 50-2867
- Analysis of periodic variations in paleoclimatic indicators. Bolton, E.W., et al. [1995,eng] 50-1216
- Arctic shelf in the last cryogenic epoch of the Late Pleistocene. Danilov, I.D., [1996,rus] 50-6353
- Atlantic Ocean sedimentary evidence for Pleistocene ice rafting. Robinson, S.G., et al. [1995,eng] 50-1110
- Baltic Ice Lake. Brunnberg, L., [1995,eng] 50-513
- Barents Sea ice sheet retreat. Forman, S.L., et al. [1996,eng] 50-5585
- Barents Sea Pleistocene ice sheet growth deduced from marine sediment provenance. Elverhøi, A., et al. [1995,eng] 50-2012
- Base Pliocene velocity inversion on the eastern Vøring Margin—causes and implications. Reemst, P., et al. [1996,eng] 50-5316
- Bedrock surface weathering on Finnish fjell summits. McCarroll, D., et al. [1996,eng] 50-5825
- Biogenic composition of ice-rafted debris in Atlantic Ocean bottom sediment. van Kreveld, S.A., et al. [1996,eng] 50-5219
- Boreal ecosystem development in the northwestern Alaska Range since 11,000 yr B.P. Hu, F.S., et al. [1996,eng] 50-4581
- Bottom sediment chemical composition of the Kara Sea and estuaries. Gurvich, E.G., et al. [1995,eng] 50-3545
- Calibration of radiocarbon ages and the interpretation of paleoenvironmental records. Bartlein, P.J., et al. [1995,eng] 50-2018
- Case for cold-base continental ice sheets—a transient thermal model. Heine, J.T., et al. [1996,eng] 50-4890
- Catastrophic drainage from ice-dammed glacial Lake Assiniboine. Wolfe, B., et al. [1995,eng] 50-4881
- Cenozoic deposition in the Nansen Basin, Barents Sea. Vågnes, E., [1996,eng] 50-5313
- Cenozoic deposition on the Svalbard continental shelf. Solheim, A., et al. [1996,eng] 50-5312
- Cenozoic erosion and sediment yield in the drainage area of the Storfjorden Fan. Hjeltnes, B.O., et al. [1996,eng] 50-5310
- Cenozoic shelf erosion of the Barents Sea margin. Fiedler, A., et al. [1996,eng] 50-5309
- Cenozoic uplift of Fennoscandia inferred from a study of the mid-Norwegian margin. Stuevold, L.M., et al. [1996,eng] 50-5324
- Changes in climate and ice distribution in the Northern Hemisphere since the maximum of the last glaciation. Chizhov, O.P., [1972,rus] 50-541
- Changes in permafrost conditions. Valkmäe, R., et al. [1995,eng] 50-506
- Characteristics of applied geomorphological studies in regions with Pleistocene ice sheets. Spindonov, A.I., [1995,rus] 50-3772
- Chronology of late Wisconsin ice retreat from the western Ross Sea, Antarctica. Licht, K.J., et al. [1996,eng] 50-3814
- Chronology of Upper Pleistocene stratified slope-waste deposits in central Italy. Colorti, M., et al. [1996,eng] 50-6700
- Cold Warta stage in the light of palynological investigations. Jastrzebska-Mamek, M., [1993,pol] 50-3656
- Collected papers on the Quaternary in arid region Xinjiang. Xinjiang University, Xinjiang Geology and Mineral Resources Bureau, Xinjiang Branch Academy of Sciences, [1985,chi] 50-1995
- Comment and reply on paper by Batterson et al. Brookes, I.A., et al. [1995,eng] 50-1063
- Comment on paper by Baumann et al. Forsström, L., et al. [1996,eng] 50-6709
- Comment on paper by Blanchon et al. Clark, P.U., et al. [1995,eng] 50-1101
- Comparison of tundra-steppe development in Beringia. Gitterman, R.E., et al. [1982,eng] 50-3371
- Composition and construction of late Pleistocene end moraines, Durango, Colorado. Johnson, M.D., et al. [1995,eng] 50-1859
- Composition, properties and radiocarbon age of humus in paleosols. Chichagova, O.A., [1995,eng] 50-1047
- Computer network database for paleoclimatological studies. Roof, S.R., et al. [1996,eng] 50-5712
- Computer simulation of arctic shelf freezing during the Pleistocene. Sigunov, I.U.A., et al. [1995,eng] 50-6582
- Correlation between Pleistocene involutions in English soil and Canadian thermokarst. Murton, J.B., et al. [1995,eng] 50-1803
- Current status and prospects of ice age research. Liedtke, H., [1990,ger] 50-1783
- Danish lacustrine sediment evidence of paleoclimatological variability. Hammarlund, D., et al. [1996,eng] 50-5826
- Danube River fluvial geomorphodynamics during the Quaternary. Buch, M.W., et al. [1995,eng] 50-2749
- Dating of Norwegian Pleistocene rock sediments. Balashov, I.U.A., et al. [1995,eng] 50-5534
- Dating of soil development on Sierra Nevada moraines. Bach, A.J., et al. [1996,eng] 50-4630
- Decrease in the equilibrium line of glaciers in the European Arctic during the Pleistocene. Grosvald, M.G., et al. [1972,rus] 50-540
- Deforming bed conditions on the Dänischer Wohld Peninsula, northern Germany. Hart, J.K., et al. [1996,eng] 50-6536
- Deglaciation of a Late Devensian British ice sheet. Merritt, J.W., et al. [1995,eng] 50-1858
- Deposition of organic matter in the Norwegian-Greenland Sea during the past 2.7 million years. Wagner, T., et al. [1995,eng] 50-2016
- Depositional sequence of the Quaternary period in Xinjiang. Peng, X.L., [1985,chi] 50-2005
- Deposits from the Warta Glaciation against a background of Pleistocene deposits. Lisicki, S., [1993,pol] 50-3663
- Determination of the mineral composition of similar types of paleosols intercalated in loess sequences. Gerei, L., et al. [1995,eng] 50-1044
- Determination of total carbonate content in some representative loess-paleosol profiles. Gerei, L., et al. [1995,eng] 50-1043
- Development of the middle and lower course of the Weser River during the Late Pleistocene. Meinke, K., [1995,eng] 50-2746
- Discussion on the Quaternary glaciations in the Karakorum-West Kunlun Mountains. Li, B.Y., et al. [1994,eng] 50-1534
- Distribution of ice age sediments in northern Germany. Ehlers, J., [1990,ger] 50-1788
- Division and duration of ice age dating from global comparisons. Brunnacker, K., [1990,ger] 50-1784
- Dusty deposits (loesses) of the contemporary arctic zone. Wojanowicz, J., [1993,eng] 50-2214
- Early Pleistocene glaciation in the Qinling Mountains of China. Rost, K.T., [1992,ger] 50-1682
- Early Pleistocene strata and the Quaternary lower boundary in northern Xinjiang. Lu, S.A., [1985,chi] 50-2006
- Early stages of till genesis: an example from Fanore, County Clare, Ireland. Croot, D.G., et al. [1996,eng] 50-5828
- Early Weichselian interstadial sediments at Hårnäsand, Sweden. García Ambrosiani, K., et al. [1992,eng] 50-2559
- East Beringia during Late Wisconsin time: a review of the biotic evidence. Mathews, J.V., Jr., [1982,eng] 50-3374
- Eemian interglacial and its termination. Dansgaard, W., et al. [1981,eng] 50-3622
- Effects of mammals on ecosystem change at the Pleistocene-Holocene boundary. Zimov, S.A., et al. [1995,eng] 50-3895
- Enhanced dating procedures for arctic Quaternary marine deposits. Goodfriend, G.A., et al. [1996,eng] 50-4580
- Erosion of the Laurentide region of North America by glacial and glacioclastic processes. Bell, M., et al. [1990,eng] 50-1789
- European soil thermal contraction related to ice sheet dynamics. van Vliet-Lanoë, B., [1996,fre] 50-6340
- Evidence for Cenozoic crustal extension in the Bering Sea region. Cooper, A.K., et al. [1992,eng] 50-2565
- Evidence for Heinrich layers off Portugal (Tore Seamount: 39°N, 12°W). Lebreiro, S.M., et al. [1996,eng] 50-5220
- Evidence for Holocene seismic triggering of Arctic Ocean turbidites. Grantz, A., et al. [1996,eng] 50-6223
- Evidence of paleoclimatic snow melt in lacustrine mountain deposits. Norris, R.D., et al. [1996,eng] 50-5082
- Evidence of Pleistocene drainage of a Scandinavian ice lake. Bergsten, H., et al. [1992,eng] 50-2555
- Evolution of lowland landscapes in northeastern Asia during Late Quaternary time. Tomidario, S.V., [1982,eng] 50-3370
- Expanded record of Quaternary oceanographic change: Amerasian Arctic Ocean. Ishman, S.E., et al. [1996,eng] 50-3388
- Fabric signature of subglacial till deformation, Breidamerkurjökull, Iceland. Benn, D.I., [1995,eng] 50-3863
- Final stages in Laurentide ice sheet collapse, Hudson Strait. Andrews, J.T., et al. [1995,eng] 50-6556
- Fluctuations of local glaciers at the termination of the Pleistocene: 18-8 ka BP. Clapperton, C.M., [1995,eng] 50-500
- Fluctuations of the South Patagonian ice-field during the last glaciation and the Holocene. Marden, C.J., et al. [1995,eng] 50-6211
- Fluvial dynamics in the periglacial belt of the central Austrian Alps. Höfner, T., [1995,eng] 50-2751
- Foraminiferal evidence of Younger Dryas age cooling on the British Columbia shelf. Patterson, R.T., et al. [1995,eng] 50-5039
- Four Scandinavian glaciations in the Vistula Gap of the South Polish Uplands. Potarzycki, W., et al. [1995,eng] 50-2612
- Full-glacial shoreline vegetation during the maximum highstand at Owens Lake, California. Koehler, P.A., et al. [1994,eng] 50-1543
- General geomorphological aspects of the Cumberland Peninsula on Baffin I. Cortemiglia, G.C., et al. [1994,ita] 50-2822
- Geochemical criterion for recognition of Pleistocene ice rafting events. Thomson, J., et al. [1995,eng] 50-1250
- Geochemical studies of layered ground ice and frozen rocks (from work on Ney-To Lake). Dubikov, G.I., [1983,rus] 50-312
- Geocryological studies in arctic regions. Vol. 2: Modern arctic cryolithozone structure. Geokriologicheskie issledovaniya v arkticheskikh raionakh; mezhdunarodnyy simpozium. SSSR, [1983,rus] 50-312

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- Iamburg, August 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, August 1989), [1990.rus] 50-1621
- Geological investigations on the Novosibirsk Islands. Paech, H.J., [1995.eng] 50-2107
- Geological mapping of Svalbard tectonic fault zone. McCann, A.J., et al., [1996.eng] 50-4232
- Geology of a Spitsbergen fault zone. Lamar, D.L., et al., [1995.eng] 50-4296
- Geomorphology of the South Kara shelf. Musatov, E.E., et al., [1992.eng] 50-3437
- Glacial drainage towards the Mediterranean during the Middle and Late Pleistocene. Arkhipov, S.A., et al., [1995.eng] 50-1799
- Glacial drift and the glacial epoch in the Quaternary period of Xinjiang. Peng, X.L., [1985.chi] 50-2000
- Glacial evidence of climatic cooling during the Younger Dryas. Osborn, G.D., et al., [1995.eng] 50-4625
- Glacial flow systems in the zone of confluence between the Scandinavian and Novaya Zemlya ice sheets. Punkari, M., [1995.eng] 50-2130
- Glacial geology and petrography of erratics in Shackleton Range, Antarctica. Höfler, H.C., et al., [1995.eng] 50-1525
- Glacial geology: how ice shapes the land. Erickson, J., [1996.eng] 50-3555
- Glacial influence on offshore Norwegian sediment properties. Sætem, J., et al., [1996.eng] 50-5320
- Glacial isostasy and lateral mantle viscosity. Sabadini, R., et al., [1989.eng] 50-4710
- Glacial isostatic uplift of Tibet as a consequence of a former ice sheet. Kuhle, M., [1995.eng] 50-6064
- Glacial or non-glacial origin for the Bigganjarga tillite, Finnmark, northern Norway. Jensen, P.A., et al., [1996.eng] 50-4395
- Glacial rebound of the British Isles—III: constraints on mantle viscosity. Lambeck, K., et al., [1996.eng] 50-4737
- Glacial to modern changes in global river fluxes. Baker, V.R., [1994.eng] 50-1240
- Glacially-fed North Sea Quaternary sedimentation. King, E.L., et al., [1996.eng] 50-4877
- Glacially-influenced sedimentation on the Hebridean slope. Stoker, M.S., [1990.eng] 50-933
- Glacier-fed delta at a Barents Sea fjord. Laberg, J.S., et al., [1996.eng] 50-5921
- Glacio-isostatic implications of Swedish Holocene shore displacement. Berglund, M., [1995.eng] 50-3367
- Gould Pond, Maine: late-glacial transitions from marine to upland environments. Anderson, R.S., et al., [1992.eng] 50-2561
- Granulometric investigations of loess profiles in Hungary. Kis, E., [1995.eng] 50-1039
- Groundwater flow beneath ice sheets: part I—large scale patterns. Boulton, G.S., et al., [1995.eng] 50-2128
- Growth and decay of the Laurentide Ice Sheet and comparisons with Fennoscandia. Ives, J.D., et al., [1990.eng] 50-1787
- Gulf of Mexico meltwater influx during Laurentide deglaciation. Marchitto, T.M., et al., [1995.eng] 50-340
- Hillslope ice wedges and landform evolution on coastal arctic Canada. Mackay, J.R., [1995.eng] 50-3298
- History and drainage of large ice-dammed lakes along the Laurentide ice sheet. Teller, J.T., [1995.eng] 50-503
- History of the steppe-tundra concept. Hibbert, D., [1982.eng] 50-3375
- Ice age research. Liedtke, H., ed., [1990.ger] 50-1780
- Ice age sea level. Gornitz, V., [1996.eng] 50-4990
- Ice age significance of Rhine terraces. Boenigk, W., [1990.ger] 50-1786
- Ice age terrestrial carbon changes revisited. Crowley, T.J., [1995.eng] 50-1148
- Ice ages. Kneller, M., [1996.eng] 50-4989
- Ice drift reconstructions from ice rafted coal fragments. Bischof, J., et al., [1990.eng] 50-926
- Ice rafting history from the Spitsbergen ice cap over the last 200 kyr. Lloyd, J.M., et al., [1996.eng] 50-5224
- Ice rafting sources for Younger Dryas detrital carbonate in the North Atlantic. Andrews, J.T., et al., [1995.eng] 50-1564
- Ice sheet model test via glacial geological research in West Greenland. Van Tatenhove, F.G.M., et al., [1995.eng] 50-2013
- Ice-age history of Alaskan national parks. Elias, S.A., [1995.eng] 50-857
- Ice-flow indications of complex Alaskan deglaciation events. Syversen, K.M., [1995.eng] 50-1801
- Identification of ice-rafted sediments in Atlantic Ocean bottom cores. Auffret, G.A., et al., [1996.eng] 50-5218
- Identification of paleosol types and their applicability for paleoclimatic reconstructions. Morozova, T., [1995.eng] 50-1046
- Identification of the Holocene-Pleistocene boundary in the Bering Sea by diatoms. Baldauf, J.G., [1982.eng] 50-3382
- Impact of Cenozoic uplift on offshore Norwegian hydrocarbon exploration. Doré, A.G., et al., [1996.eng] 50-5327
- Impact of glaciation on the groundwater regime of northwest Europe. Boulton, G.S., et al., [1996.eng] 50-5326
- Impact of subglacial groundwater flow on moraine formation. Boulton, G.S., et al., [1995.eng] 50-2129
- Implication of glacial dispersal patterns for mineral exploration. McLenaghan, M.B., et al., [1996.eng] 50-6515
- Implications of bedrock cosmic ray exposure age for Fennoscandian ice sheet height. Brook, E.J., et al., [1996.eng] 50-3813
- Implications of glacial deposit physical properties for radiocarbon dating. Karrow, P.F., [1992.eng] 50-2563
- Influence of a finite glaciation phase on predictions of post-glacial isostatic adjustment. Mitrovica, J.X., et al., [1995.eng] 50-2723
- Influence of glaciation on the basin temperature regime. Johansen, H., et al., [1996.eng] 50-5328
- Interpretation of subglacially-deformed materials. Benn, D.I., et al., [1996.eng] 50-5583
- Inverse relation between ice extent and the late Paleozoic glacial record of Gondwana. González-Bonorino, G., et al., [1995.eng] 50-1807
- Is there any real evidence for a huge shelf ice sheet in East Siberia? Sher, A., [1995.eng] 50-499
- Isotope analysis of Bering Sea Pleistocene sediment variations. Nakatsuka, T., et al., [1995.eng] 50-3002
- Isotopic climatic records in the Alleröd-Bölling-Younger Dryas and post-Younger Dryas events. Epstein, S., [1995.eng] 50-2804
- Karakorum ice cover variations during the last glaciation. Kuhle, M., [1994.eng] 50-1533
- Kulshan caldera: a Quaternary subglacial caldera in the North Cascades, Washington. Hildreth, W., [1996.eng] 50-6547
- Land form development and pedogenesis: the effects of the last glacial cycle in the forest of Fougères (Ille et Villaine, Brittany, France). Van Vliet-Lanoë, B., et al., [1995.fre] 50-2996
- Landforms associated with Pleistocene glaciation in Ireland. Wilson, P., et al., [1995.eng] 50-5486
- Last deglaciation of the Franz Victoria Trough, northern Barents Sea. Lubinski, D.J., et al., [1996.eng] 50-6535
- Last glaciation in central Magellan Strait, southernmost Chile. Clapperton, C.M., et al., [1995.eng] 50-964
- Last Scottish ice-sheet: facts and speculative discussion. Sissons, J.B., [1981.eng] 50-3620
- Late Cenozoic evolution of the western Barents Sea-Svalbard continental margin. Faleide, J.I., et al., [1996.eng] 50-5308
- Late Cenozoic history of the Scandinavian and Barents Sea ice sheets. Mangerud, J., et al., [1996.eng] 50-5305
- Late Cenozoic sedimentation and uplift history on the mid-Norwegian continental shelf. Henriksen, S., et al., [1996.eng] 50-5315
- Late glacial sedimentation and history of the Lake Nipigon Basin, Ontario. Lemoine, R.M., et al., [1995.eng] 50-4880
- Late Pleistocene deposits at Block Fen, Cambridgeshire, England. West, R.G., et al., [1995.eng] 50-6214
- Late Pleistocene environment of north China. Zheng, H.H., et al., [1991.chi] 50-1844
- Late Pleistocene equilibrium-line reconstructions in the northern Peruvian Andes. Rodbell, D.T., [1992.eng] 50-2549
- Late Pleistocene sea level fluctuations and marine terraces. Radtke, U., [1990.ger] 50-1795
- Late Pleistocene sedimentary environment near Urumqi. Han, S.T., et al., [1985.chi] 50-1998
- Late Pleistocene soil formation on coastal lowlands of northern Yakutia. Gubin, S.V., [1995.eng] 50-963
- Late Pleistocene vegetation of eastern Beringia: pollen analysis of dated alluvium. Schweger, C.E., [1982.eng] 50-3373
- Late Quaternary foraminiferal stratigraphy from western Svalbard. Lycke, A.K., et al., [1992.eng] 50-2557
- Late Quaternary lake-level record from northern Eurasia. Harrison, S.P., et al., [1996.eng] 50-4578
- Late Quaternary paleoceanography of the Eurasian Basin, Arctic Ocean. Cronin, T.M., et al., [1994.eng] 50-658
- Late Quaternary paleoceanography of the mid- to outer continental shelf, East Greenland. Williams, K.M., et al., [1995.eng] 50-2810
- Late Quaternary vegetation variations in western Beringia. Anderson, P.M., et al., [1996.eng] 50-4341
- Late stage 5 glacio-isostatic sea in the St. Lawrence Valley, Canada and the United States. Occhietti, S., et al., [1996.eng] 50-4577
- Late stage 5 glacio-isostatic sea in the St. Lawrence Valley, Canada and the United States. Occhietti, S., et al., [1996.eng] 50-4577
- Late Weichselian glacial maximum on Andøya, north Norway. Møller, J.J., et al., [1992.eng] 50-2546
- Late Wisconsinan ice retreat from the Scotian Shelf. King, L.H., [1996.eng] 50-6533
- Late-glacial advances in the western Italian Alps. Porter, S.C., et al., [1982.eng] 50-3383
- Late-glacial and early Holocene vegetation of Snowdonia. Ince, J., [1996.eng] 50-4254
- Laurentide ice sheet oscillations as cause of Atlantic Ocean Heinrich events. MacAyeal, D.R., [1993.eng] 50-2869
- Limits on the areal extent of the Barents Sea ice sheet in Late Weichselian time. Lambeck, K., [1996.eng] 50-5307
- Linking physical property records of Quaternary sediments to Heinrich events. Chi, J., et al., [1996.eng] 50-5221
- Little Ice Ages. Grove, J.M., [1996.eng] 50-4993
- Lobal interactions and rheologic superposition in subglacial till near Bradville, Ontario, Canada. Hicock, S.R., [1992.eng] 50-2550
- Loess-paleosol dating method. Zhu, Z.Y., [1995.eng] 50-1050
- Luminescence dating of the deglaciation in northern Sweden. Lundqvist, J., et al., [1995.eng] 50-515
- Magnetic climatology: mineral magnetism and the ice ages. Heller, F., et al., [1996.ger] 50-4743
- Major paleohydrographic changes in alpine foreland during the Pliocene-Pleistocene. Petit, C., et al., [1996.eng] 50-6538
- Mammoth extinction: two continents and Wrangel Island. Martin, P.S., et al., [1995.eng] 50-650
- Margin of the last Barents-Kara ice sheet at Markhida, northern Russia. Tveranger, J., et al., [1995.eng] 50-2014
- Marine sedimentation rates as evidence of continental glaciation. Goldschmidt, P.M., [1995.eng] 50-1828
- Mass movements in glaciomarine sediments on the Barents Sea continental slope. Kuvaas, B., [1996.eng] 50-5321
- Meteorites as time markers on antarctic blue ice fields. Benoit, P.H., [1995.eng] 50-1408
- Methods for classifying apparently homogeneous loess sequences. Molnár, B., et al., [1995.eng] 50-1041
- Middle and Late Pleistocene evolution of the Bear Island Trough Mouth Fan. Laberg, J.S., et al., [1996.eng] 50-5322
- Mineral composition of the fine-dispersed fractions of loess and soil processes developed in them. Chizhikova, N.P., et al., [1995.eng] 50-1042
- Mode of degradation of Pleistocene permafrost in West Siberia. Astakhov, V.I., [1995.eng] 50-507
- Modelling of permafrost depth in France during the last 120,000 years. Lebret, P., et al., [1996.fre] 50-4570
- Monitoring Termination II at high latitude: anomalies in the planktic foraminiferal record. Bauch, H.A., [1996.eng] 50-5223
- Moraine bank ground-line process during coastal Maine deglaciation. Hunter, L.E., et al., [1996.eng] 50-6532
- Moraine types from the last glaciation in the Qinghai-Xizang Plateau. Liu, S.J., et al., [1994.eng] 50-4782
- Morphoscopy and morphometry of quartz grains from loess and buried soil layers. Velichko, A.A., et al., [1995.eng] 50-1038
- Near-shore Baltic ice lake deposits in Fakse Bugt, southeast Denmark. Bennike, O., et al., [1995.eng] 50-1798
- Neoglaciation and vegetation change in British Columbia. Clague, J.J., et al., [1996.eng] 50-4332
- New data on current and ancient glaciation in the Sutar-Khayata Mountains. Vinogradov, O.N., et al., [1972.rus] 50-536
- New data on the geology and paleogeography of the Late Pliocene-Middle Pleistocene in Eurasia. Kostiaev, A.G., [1996.rus] 50-6355
- New indicator of glacial dispersal: lead isotopes. Bell, K., et al., [1995.eng] 50-1857
- Nonglacial interval in Canadian Pleistocene sediments. Hicock, S.R., et al., [1995.eng] 50-1087
- North Sea lithostratigraphy related to glacial isostasy. Ekman, S.R.R., [1995.eng] 50-6560
- North Sea lithostratigraphy related to glacial isostasy. Ekman, S.R.R., [1995.eng] 50-6560
- North Sea paleoenvironments during the last deglaciation. Knudsen, K.L., et al., [1996.eng] 50-6534
- Northern exposures. Thomson, K.S., [1993.eng] 50-3146
- Norwegian Pleistocene crustal metamorphism. Ohta, Y., et al., [1995.eng] 50-5535
- Note on rock glaciers in the Albanian Alps. Palmentola, G., et al., [1996.eng] 50-6702
- Novel Pleistocene ice flow directions in Poland and Germany. Lagerlund, E., et al., [1995.eng] 50-509
- Numerical modelling of ice sheet fluctuation in the Russian Arctic. Siegert, M.J., et al., [1995.eng] 50-1800
- Numerical reconstruction of a soft-bedded Laurentide Ice Sheet during the last glacial maximum. Clark, P.U., et al., [1996.eng] 50-6539
- Nunataks of the last ice sheet in northwest Scotland. McCarroll, D., et al., [1995.eng] 50-3366
- On ancient ice-sheet and ice age in the Tibetan Plateau. Xu, D.M., et al., [1995.chi] 50-5632
- On changes of air pressure during an ice age. Loewe, F., [1973.ger] 50-4617
- On the Quaternary paleoglacial action of the northern Tianshan. Zhang, H.Y., [1985.chi] 50-2001
- Origin and evolution of the mountain flora in Middle Asia and neighbouring mountain regions. Agakhanian, O.E., et al., [1995.eng] 50-3893
- Origin of till sequences beneath mid-latitude ice sheets. Boulton, G.S., [1996.eng] 50-6243
- Paleocryogenic analysis of loess-paleosol sequences. Velichko, A.A., et al., [1995.eng] 50-1036
- Paleoecological reconstruction of the Late Pleistocene, based on loess Malacofauna in Hungary. Krollopp, E., et al., [1995.eng] 50-1048
- Paleobotany and cladistics and cladistics in paleobotany: enlightenment and uncertainty. Nixon, K.C., [1996.eng] 50-4001
- Paleoceanographic import of Norwegian Sea sediment stratigraphy. Rasmussen, T.L., et al., [1996.eng] 50-5222
- Paleoclimatic changes and glacier variations in Colombia. Thourer, J.C., et al., [1996.eng] 50-6706
- Paleoclimatic import of gravel deposits on a Chinese plateau. Liu, T.S., et al., [1996.eng] 50-5098
- Paleoclimatic interpretation of rock glacier dating. Nicholas, J.W., et al., [1996.eng] 50-5577
- Paleoclimatological variations from isotope analysis of marine deposits. Rial, J.A., [1995.eng] 50-1286
- Paleoecological implications of frost-shattered sediments on the Norwegian coast. Blikra, L.H., et al., [1995.eng] 50-2167
- Paleoecological significance of Quaternary permafrost relics in arctic Canada. Murton, J.B., [1996.eng] 50-3645
- Paleoecological study of Pleistocene mountain vegetation patterns. Gregory, K.M., et al., [1996.eng] 50-5081
- Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st, Burg Wartenstein, Austria, June 8-17, 1979, [1982.eng] 50-3369

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- Paleogeographic implications of ostracod fauna in Karakorum Mountain lacustrine deposits. Li, Y.F., et al. [1994,eng] 50-1537
- Paleogeographic significance of Norwegian block field periglacial processes. Selier, D., [1995,fre] 50-4878
- Paleogeographical conditions of the degradation of Pleistocene frozen ground. Astakhov, V.I., [1990,rus] 50-1624
- Paleogeographical studies of permafrost in the eastern Taymyr lowland. Siebert, C., et al. [1995,eng] 50-2092
- Paleoglacial events on Baffin Island, Labrador Sea. Fillon, R.H., et al. [1981,eng] 50-3621
- Paleoglaciology's grand unsolved problem. Grosvald, M.G., et al. [1995,eng] 50-453
- Paleoglaciology: subject and methods, tasks and achievements. Avsiuk, G.A., et al. [1972,rus] 50-537
- Paleographic conditions for the formation of ice in homogeneous age varved clays. Karpov, E.G., et al. [1996,rus] 50-6377
- Paleohydrological changes in French mountains due to paleoclimatic changes. Magny, M., [1995,eng] 50-5038
- Paleomagnetic age constraints on New Zealand glacial deposits. Fitzsimons, S.J., et al. [1996,eng] 50-6576
- Paleomagnetic changes within the Brunhes Epoch in the Basaharc loess profile, Hungary. Balogh, J., [1995,eng] 50-1051
- Paleomagnetic constraints on sedimentation rates in the eastern Arctic Ocean. Schneider, D.A., et al. [1996,eng] 50-6707
- Paleomagnetism of Icelandic lava piles. Kristjánsson, L., et al. [1995,eng] 50-4948
- Past and present glacial landforms of the central Qilian Shan. Lehmkuhl, F., [1995,ger] 50-6077
- Percentage of local rocks in fluvio-glacial deposits in central Poland. Krzemiński, T., et al. [1993,pol] 50-3662
- Periglacial elements in the geological structure and relief of northern Czestochowa. Kobojek, S., [1990,pol] 50-4941
- Periodic water saturation of ice wedges: results of an oxygen-18 and deuterium study. Lauriol, B., et al. [1995,fre] 50-667
- Permafrost in glaciofluvial sediments of the last glaciation. Habbe, K.A., [1993,eng] 50-1678
- Permafrost on the Tibet Plateau, China. Wang, B.L., et al. [1995,eng] 50-1856
- Pleistocene altiplanation in northern Chile. Kött, A., et al. [1995,eng] 50-4947
- Pleistocene climatic changes in arctic marine atmospheres. Seidenkrantz, M.S., et al. [1996,eng] 50-5584
- Pleistocene foraminifera in Arctic Ocean piston cores. Evans, J.R., et al. [1995,eng] 50-3348
- Pleistocene geomorphology of Qinghai Lake, China. Nakao, K., et al. [1995,eng] 50-6717
- Pleistocene glacial history of the Svalbard area. Hebbeln, D., [1992,eng] 50-2558
- Pleistocene glacial lake sedimentology. Scotland. Benn, D.I., [1996,eng] 50-5827
- Pleistocene glaciation and the Earth's precession constant. Mitrovica, J.X., et al. [1995,eng] 50-517
- Pleistocene glaciation in northwestern British Columbia. Spooner, I.S., et al. [1995,eng] 50-4526
- Pleistocene glaciation of the German uplands as reflected in recent research. Rother, K., [1995,ger] 50-744
- Pleistocene glaciation of the Outer Hebrides, Scotland. Ballantyne, C.K., et al. [1995,eng] 50-6212
- Pleistocene glaciations in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1993,eng] 50-1677
- Pleistocene glacier thicknesses inferred from electron microscopy of till microtextures. Mahaney, W.C., [1995,eng] 50-3365
- Pleistocene glaciomarine isostatic rebound, Puget Lowland. Washington. Dethier, D.P., et al. [1995,eng] 50-1832
- Pleistocene mountain glacier fluctuation in Chile. Andersen, B.G., et al. [1995,eng] 50-516
- Pleistocene paleosol soil development in northwest Alaska. Hoffe, C., et al. [1996,eng] 50-6517
- Pleistocene paraglacial landsliding in South Wales. Shakesby, R.A., et al. [1996,eng] 50-5859
- Pleistocene slope deposits related to the Saint-Maurice Rhythmites, St. Lawrence Valley, Québec. Hétu, B., et al. [1995,fre] 50-4883
- Pleistocene soil evolution in a Russian upland. Sycheva, S.A., [1995,eng] 50-2147
- Pleistocene stratigraphy in the Lappajärvi meteorite crater in Ostrobothnia, Finland. Salonen, V.P., et al. [1992,eng] 50-2556
- Pleistocene stratigraphy of the Athabasca River valley region, Rocky Mountains, Alberta. Levson, V.M., et al. [1995,eng] 50-5037
- Pleistocene termination in northern Eurasia. Velichko, A.A., [1995,eng] 50-505
- Pleistocene treeline fluctuation in the Swiss Alps. Tinner, W., et al. [1996,eng] 50-5487
- Pleistocene-Holocene fluxes are not the Earth's norm. Hay, W.W., [1994,eng] 50-1237
- Plio-Pleistocene megacycles: record of climate and tectonics. Kukla, G., et al. [1996,eng] 50-5099
- Pliocene sand ridges at the Barents Sea margin. Knutsen, S.M., et al. [1996,eng] 50-5314
- Pollen content of Pleistocene deposits in the St. Lawrence Estuary. Clet, M., et al. [1995,fre] 50-4884
- Possible consequences of glacially induced groundwater flow. Forsberg, C.F., [1996,eng] 50-5325
- Possible influence of glacial eustasy on antarctic shelf stratigraphy. Barteck, L.R., et al. [1996,eng] 50-4823

- Post glacial emergence and the Tapes transgression, north-central Kola Peninsula, Russia. Snyder, J.A., et al. [1996,eng] 50-5829
- Post-sedimentation frozen structures in Late Pleistocene deposits in Gdańsk Bay, Rosa, B., [1989,pol] 50-2901
- Potential role of peatland dynamics in ice-age initiation. Klinger, L.F., et al. [1996,eng] 50-4587
- Pre-Illinoian glacial stratigraphy in north-central Missouri. Rovey, C.W., III, et al. [1996,eng] 50-4585
- Problematic ice sheets. Rutter, N.W., [1995,eng] 50-498
- Problems in paleogeography and stratigraphy of the cold Warta stage in Poland. Klatkova, H., ed. [1993,pol] 50-3651
- Problems of dead ice and ground ice in the central part of the north European plain. Böse, M., [1995,eng] 50-508
- Proceedings. [1994,eng] 50-1531
- Processes in soils and paleosoils—a new method for the study of weathering. Nemeček, E., et al. [1995,eng] 50-1037
- Profiles at Brus and Ruda (Lublin Polesie), and their significance for Mesopleistocene stratigraphy. Wojtanowicz, J., [1995,eng] 50-2615
- Qinghai Lake paleohydrological variations due to climatic changes. Nakao, K., et al. [1995,eng] 50-6718
- Qinghai-Xizang Plateau during the maximum glaciation. Shi, Y.F., et al. [1995,chi] 50-5616
- Quantification of Barents Sea Pleistocene bottom erosion. Rasmussen, E., et al. [1996,eng] 50-5311
- Quaternary fluvio-morphological processes. Bibus, E., et al. [1995,eng] 50-2747
- Quaternary glacial transport in the Hudson Bay region. Parent, M., et al. [1995,eng] 50-4527
- Quaternary glaciation in the Karakoram and Himalayas. Derbyshire, E., [1996,eng] 50-5097
- Quaternary glaciations in the eastern and central Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4776
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Quaternary processes in eastern China and international correlation. Yang, Z.G., et al. [1993,chi] 50-1843
- Quaternary sea level history in the Northwest Territories, Canada. Kerr, D.E., [1996,eng] 50-6553
- Quaternary sedimentary processes and budgets in Orphan Basin, southwestern Labrador Sea. Hiscott, R.N., et al. [1996,eng] 50-4579
- Quaternary stratigraphy of the buried valleys of the lower Red Deer River, Alberta, Canada. Evans, D.J.A., et al. [1995,eng] 50-1080
- Radioactive dating of pollen deposits in a Swedish lake. Regnell, J., [1992,eng] 50-2562
- Radiocarbon dating evidence for mammoths on Wrangell Island, Arctic Ocean, until 2000 BC. Vartanian, S.L., et al. [1995,eng] 50-649
- Radiocarbon dating of the Gou-Finiglacial boundary of the Swedish Time Scale. Brunnberg, L., et al. [1992,eng] 50-2551
- Radiochronometry of the ice sheet in the Upper Pleistocene. Serbrianniy, L.R., [1972,rus] 50-539
- Rapid isostatic rebound in southwestern Iceland at the end of the last glaciation. Ingólfsson, O., et al. [1995,eng] 50-1802
- Recent history of the Bering Strait. Switoch, A.A., et al. [1995,eng] 50-2535
- Regional-scale meltwater erosion and deposition patterns, northern Quebec, Canada. Brennand, T.A., et al. [1996,eng] 50-6244
- Relationship between surface and subsurface glaciation on the East European Plain in the Dnepr cold epoch. Nechaev, V.P., [1996,rus] 50-6357
- Relative sea level in the area of Matane (Québec) from deglaciation to present day. Dionne, J.C., et al. [1995,fre] 50-5036
- Relevance of thermoluminescence dating of Pleistocene loess to volcanic eruptive history. Berger, G.W., et al. [1995,eng] 50-2118
- Relics of the xerophyte vegetation of Beringia in northeastern Asia. Urtsev, B.A., [1982,eng] 50-3376
- Review of multi-proxy data for the Younger Dryas in Atlantic Canada. Mayle, F.E., et al. [1995,eng] 50-4624
- Rhythmic nature of the Pleistocene. Maksimov, E.V., [1972,rus] 50-542
- Role of North Atlantic margin uplift in Cenozoic glaciation. Eyles, N., [1996,eng] 50-3386
- Salinity of Quaternary deposits in the western Yamal Peninsula. Lakhtina, O.V., et al. [1983,rus] 50-314
- Scandinavian Pleistocene tectonic correlations. Riis, F., [1996,eng] 50-5323
- Scottish landform examples. 8: Solifluction sheets in the Bowmont Valley, Cheviot Hills. Harrison, S., [1993,eng] 50-3015
- Secondary precipitates in Pleistocene and present cryogenic environments. Vogt, T., et al. [1996,eng] 50-4045
- Sediment flux from a fjord during glacial periods, Isfjorden, Spitsbergen. Hooke, R.L., et al. [1996,eng] 50-5318
- Sedimentary environments associated with glacial Lake Tringham, Norfolk, UK. Hart, J.K., [1992,eng] 50-2554
- Sedimentological data on cores from the Joides Basin. Corradi, N., et al. [1995,eng] 50-4394
- Seismic investigation of glacial tunnel channels. Pugin, A., et al. [1996,eng] 50-6257
- Sequence analysis of Canadian glaciolacustrine deposits. Martini, J.P., et al. [1995,eng] 50-1064
- Sequence types of Upper Quaternary deposits in the Kara Sea. Levitan, M.A., et al. [1995,eng] 50-3546

- Significance of the analysis of dominant boulders and the orientation of long axes of pebbles in moraines. Raukas, A.V., [1972,rus] 50-544
- Simulation of Pleistocene glacial limits in Yunnan, China. Anya, M., et al. [1991,eng] 50-3307
- Skógar Tephra, a Younger Dryas marker in North Iceland. Norddahl, H., et al. [1992,eng] 50-2548
- Slope valleys in glaciomarine sediments of the Gulf of Alaska. Carlson, P.R., et al. [1990,eng] 50-922
- Soil polygenesis as a function of Quaternary climate change, northern Great Basin, USA. Chadwick, O.A., et al. [1995,eng] 50-1831
- Soil/weathering rate relations from glacial sediment chemical evolution. Taylor, A., et al. [1995,eng] 50-1806
- Some questions of the Pleistocene sedimentation of the Barents Sea shelf. Tarasov, G.A., [1993,eng] 50-2213
- Source of Quaternary deposits at the foot of the West Kunlun Mountains, Xinjiang, Zhu, L.P., [1994,eng] 50-1539
- Southern ocean Pleistocene water mass circulation variations. Diester-Haas, L., et al. [1996,eng] 50-3389
- Statistical analysis of lithology of Arctic Ocean sediments. Darby, D.A., et al. [1996,eng] 50-5025
- Stratigraphic setting and paleogeography of the Warta Glaciation in northeastern Poland. Krupičski, K.M., et al. [1993,pol] 50-3661
- Stratigraphy of redeposited fossils in Norwegian Pleistocene sediments. Vorren, T.O., et al. [1981,eng] 50-3625
- Stratigraphy of Yorkshire, England glacial deposits. Evans, D.J.A., et al. [1995,eng] 50-6213
- Study on the sequences of the Quaternary glaciations in the Bayan Har Mountains. Zhou, S.Z., [1995,chi] 50-5633
- Submerged terraces in the Barents Sea. Lebesbye, E., et al. [1996,eng] 50-4876
- Summary of Project IGCP-253. Lundqvist, J., et al. [1995,eng] 50-497
- Taxus in plant communities of the Mazovian Interglacial Age in Central Europe. Krupičski, K.M., [1995,eng] 50-2613
- Tectonic significance of alpine ecologies. Spalla, M.I., et al. [1996,eng] 50-5572
- Temperature fluctuations in climatic optima in the Holocene and Pleistocene. Klimanov, V.A., et al. [1995,rus] 50-4117
- Ten million year histories of obliquity and precession: the influence of the ice-age cycle. Jiang, X.H., et al. [1996,eng] 50-5044
- Tertiary paleostress regimes in arctic islands. Lepvrier, C., et al. [1996,eng] 50-6208
- Thermoluminescence ages of loess and associated sediments in central Nebraska, USA. Pye, K., et al. [1995,eng] 50-2166
- Thermoluminescence dating of Alaskan Pleistocene tephra. Berger, G.W., et al. [1996,eng] 50-5188
- Till provenance studies of Idaho paleoglaciologists. Brugger, K.A., [1996,eng] 50-6245
- Topographic control on the dynamics of the Svalbard-Barents Sea ice sheet. Siebert, M.J., et al. [1996,eng] 50-5306
- Valley bottoms in the late Quaternary. Schirmer, W., [1995,eng] 50-2748
- Variations in Atlantic Ocean surface paleoceanography. Sarnthein, M., et al. [1995,eng] 50-3003
- Vegetation of land-bridge Beringia. Young, S.B., [1982,eng] 50-3377
- Vegetation succession in ice age dating. Frenzel, B., [1990,ger] 50-1785
- Vegetational history of western Alaska during the Wisconsin glacial interval and the Holocene. Ager, T.A., [1982,eng] 50-3372
- Vendian glaciations and their relation to the dispersal of Rodinia: paleomagnetic constraints. Torvik, T.H., et al. [1995,eng] 50-663
- Warming at 18,000 yr B.P. in the tropical Andes. Helmens, K.F., et al. [1996,eng] 50-5189
- Water fern residue as Chilean paleoclimatic indicator. Heusser, C.J., et al. [1996,eng] 50-5488
- Weichselian chronostratigraphy and correlations. Möner, N.A., [1981,eng] 50-3624
- Weichselian glaciation in Svalbard before 15,000 B.P. Salvigsen, O., et al. [1981,eng] 50-3623
- West Antarctic ice sheet removal of subglacial volcanic artefacts. Behrendt, J.C., et al. [1995,eng] 50-2530
- West Siberian Quaternary stratigraphy. Arkhipov, S.A., et al. [1994,eng] 50-1210
- What really ended the last ice age? Scientists say the oceans did it. [1992,eng] 50-720
- Wutach gorge in SW Germany: late Würmian (periglacial) downcutting versus Holocene processes. Einsele, G., et al. [1995,eng] 50-2750
- Younger Dryas end moraines in Finland and NW Russia. Rainio, H., et al. [1995,eng] 50-514
- Younger Dryas ice-marginal deposits in Norway. Andersen, B.G., et al. [1995,eng] 50-511
- Younger Dryas ice-marginal zone in Sweden. Lundqvist, J., [1995,eng] 50-512
- Younger Dryas margin of the Scandinavian ice sheet—an introduction. Andersen, B.G., et al. [1995,eng] 50-510

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- Carbon in boreal coniferous forest soil. Westman, C.J., et al. [1994,eng] 50-3203
- Differentiation of the composition and properties due to podzolization on the Baikal-Patom plateau. Kuz'min, V.A., [1995,eng] 50-3871

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- Evaluation of respiration of Russian soils. Kudeiarov, V.N., et al. [1996.eng] 50-5086
- Heavy metals in the podsol desert soils of the Fukang region. Xie, Y.Y., et al. [1991.chi] 50-5133
- Indicators of soil polluted by heavy metals. El'kina, G.I.A., et al. [1994.rus] 50-274
- Model for the development of sod-podzolic soils by windthrow. Vasenev, I.I., et al. [1995.eng] 50-2712
- Norwegian gelification stages from dated buried soils. Nesje, A., [1993.eng] 50-828
- Physical properties governing groundwater flow in a glacial till catchment. Hinton, M.J., et al. [1993.eng] 50-3693
- Russian soil geography as indicated by a new detailed map. Andronikov, V.L., et al. [1995.eng] 50-3873
- Selenium in the saline podsol and desert soils of the northern foothills of Tian Shan. Wang, Z.Q., [1991.chi] 50-5131
- Transformation of an enzyme pool in cultivated podsol soil. Freger, V.M., [1994.rus] 50-279
- Typization of elementary soil-cover structures occurring in European Russia. Simakova, M.S., [1995.eng] 50-3878
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- Changes in the lithology and pedology of tills from the Warta Glaciation in the Bełchatów mine. Baraniecka, M.D., et al. [1993.pol] 50-3653
- Chronostratigraphy of Warta loesses and correlation with glacial deposits in Poland. Maruszczak, H., [1993.pol] 50-3664
- Cold Warta stage in the light of palynological investigations. Jastrzębska-Mameka, M., [1993.pol] 50-3656
- Correlation of glacial episodes in Poland and Scandinavia. Lindner, L., et al. [1995.eng] 50-2611
- Deposits from the Warta Glaciation against a background of Pleistocene deposits. Lisicki, S., [1993.pol] 50-3663
- Formation mechanism of the marginal zone of the Warta ice sheet. Terpiłowski, S., [1993.pol] 50-3666
- Four Scandinavian glaciations in the Vistula Gap of the South Polish Uplands. Pożaryski, W., et al. [1995.eng] 50-2612
- Glacial genesis of the high terraces of the Lower Liswarta River. Kobjek, S., et al. [1993.pol] 50-3660
- Glaciatic structures and their morphological expression in the Warta Glaciation zone. Klatkowska, H., [1993.pol] 50-3659
- Mechanism of the development of the Pomeranian Phase marginal zone in the Lake Drawa district. Kłysz, P., [1990.pol] 50-5004
- Novel Pleistocene ice flow directions in Poland and Germany. Lagerlund, E., et al. [1995.eng] 50-509
- Organic deposits at the bottom and top of sediments suggested to be Wartian. Goździk, J., et al. [1993.pol] 50-3654
- Percentage of local rocks in fluvio-glacial deposits in central Poland. Krzemieński, T., et al. [1993.pol] 50-3662
- Polar Club and its activities. Jahn, A., [1989.pol] 50-2871
- Polish design standards for transmission line icing. Dembicki, E., et al. [1996.eng] 50-5396
- Postglacial development of river valleys in the middle part of the northern slope of Pomerania. Florek, W., [1991.pol] 50-4940
- Problems in paleogeography and stratigraphy of the cold Warta stage in Poland. Klatkowska, H., ed. [1993.pol] 50-3651
- Profiles at Brus and Ruda (Lublin Polesie), and their significance for Mesopleistocene stratigraphy. Wojtanowicz, J., [1995.eng] 50-2615
- Regional stratigraphy and lithology of the Carpathian loess deposits in Przemyśl environs. Łanczont, M., [1995.eng] 50-2614
- Some features of the Warta glacial deposits in central Poland. Klatkowska, H., [1993.pol] 50-3658
- Some late Pliocene and early Pleistocene pollen profiles from Poland. Suchlik, L., [1994.eng] 50-916
- Stratigraphic setting and paleogeography of the Warta Glaciation in northeastern Poland. Krupński, K.M., et al. [1993.pol] 50-3661
- Stratigraphical position of kame deposits to the north of Bielsk Podlaski. Mycielska-Dowgiało, E., et al. [1995.eng] 50-2617
- Stratigraphy of valley sediments of Polish river drainage basins. Superson, J., [1995.eng] 50-2616
- Warta Glaciation (stage) within the Widawka drainage basin and the Bełchatów mine. Baraniecka, M.D., [1993.pol] 50-3652
- Poland—Bzura River**
- Morphological-paleogeographical features of the Warta Glaciation relief in the Rawka River lobe. Klajnert, Z., [1993.pol] 50-3657
- Poland—Częstochowa**
- Periglacial elements in the geological structure and relief of northern Częstochowa. Kobjek, S., [1990.pol] 50-4941
- Poland—Dęblin**
- Extent of the Warta Glaciation deposits in the northern foreland of the Lublin upland near Dęblin. Zarski, M., [1993.pol] 50-3669
- Poland—Gdańsk Bay**
- Post-sedimentation frozen structures in Late Pleistocene deposits in Gdańsk Bay. Rosa, B., [1989.pol] 50-2901
- Poland—Ner River**
- Record of Warta processes in the base of the mountain Ner River valley. Turkowska, K., [1993.pol] 50-3667
- Poland—Olsztyn**
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- Poland—Piłica River**
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- Poland—Polesie Lubelskie**
- Warta Glaciation deposits within the non-glaciated zone in the Polesie Lubelskie. Wojtanowicz, J., [1993.pol] 50-3668
- Poland—Rawka River**
- Morphological-paleogeographical features of the Warta Glaciation relief in the Rawka River lobe. Klajnert, Z., [1993.pol] 50-3657
- Poland—Silesia**
- Results of TL datings of Warta Glaciation deposits in the northern Silesian Lowlands. Olszak, I.J., et al. [1993.pol] 50-3665
- Poland—Sudeten Mountains**
- Acid pollutants in air and precipitation/deposition at the Sudeten Mountains. Poland. Kmiec, G., et al. [1995.eng] 50-4954
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- Nivation in the High Tatras, Poland. Rączkowska, Z., [1995.eng] 50-4193
- Poland—Warka**
- Glaciofluvial sedimentation in the vicinity of Warka during the Warta Glaciation. Grzybowski, K., [1993.pol] 50-3655
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- 1-D model of the formation and evolution of polar stratospheric clouds. Panegrossi, G., et al. [1996.eng] 50-3812
- 1989 AASE temperature and wind measurements. Chan, K.R., et al. [1990.eng] 50-5980
- 2xCO₂ experiment with prescribed changes in sea surface temperature. Mahfouf, J.-F., et al. [1992.eng] 50-226
- Acoustic sounder measurements of the planetary boundary layer at Maitri, Antarctica. Naithani, J., et al. [1995.eng] 50-4208
- Adsorption model of polar stratospheric cloud physics. Henson, B.F., et al. [1996.eng] 50-5460
- Aerosol uptake by model polar stratospheric cloud surfaces. Graham, J.D., et al. [1996.eng] 50-4144
- Aerosol-stratosphere cloud parameterization for middle and high latitudes. Olsson, P.Q., et al. [1996.eng] 50-5280
- Aerosols used as tracers for stratosphere-troposphere exchange in the Arctic. Foltescu, V.L., et al. [1995.eng] 50-777
- Airborne Arctic Stratospheric Expedition: prologue. Turco, R.P., et al. [1990.eng] 50-5973
- Airborne lidar observations in the wintertime arctic stratosphere: ozone. Browell, E.V., et al. [1990.eng] 50-5976
- Airborne measurements of stratospheric constituents over the Arctic in the winter of 1989. Mankin, W.G., et al. [1990.eng] 50-6006
- Analysis of DDT, DDE and PCBs in the blood of *Pygoscelis* of Antarctica. Yang, H.F., et al. [1989.chi] 50-6776
- Analysis of lidar observations of polar stratospheric clouds. Toon, O.B., et al. [1990.eng] 50-5991
- Antarctic atmospheric moisture values obtained from microwave radiometers. Wada, M., et al. [1992.eng] 50-3568
- Antarctic macroalgae—sources of volatile halogenated organic compounds. Laurus, F., et al. [1996.eng] 50-5594
- Antarctic stratospheric spectroscopy using N₂O observations. Crewell, S., et al. [1995.eng] 50-1329
- Antarctica. Warren, S.G., [1996.eng] 50-4975
- Appearance of F2 and Es modes during oblique-incidence sounding in the high latitude ionosphere. Egorova, L.V., et al. [1991.rus] 50-2270
- Arctic 'greenhouse effect'. Blanchet, J.P., et al. [1994.eng] 50-5034
- Arctic and antarctic ozone depletion inferred from radiometric soundings. MacKenzie, I.A., et al. [1996.eng] 50-5768
- Arctic and environmental change. Wadhams, P., ed. et al. [1995.eng] 50-5226
- Arctic atmospheric aerosol number size distributions. Covert, D.S., et al. [1996.eng] 50-4315
- Arctic atmospheric composition during episodic air pollution. Lejnas, H., et al. [1996.eng] 50-6710
- Arctic atmospheric particle measurements from forward scattering spectrometer. Dye, J.E., et al. [1990.eng] 50-5995
- Arctic haze phenomenon. Shaw, G.E., [1995.eng] 50-4569
- Arctic Ocean atmospheric boundary layer structure and flow. Nilsson, E.D., [1996.eng] 50-4314
- Arctic oceanography: marginal ice zones and continental shelves. Smith, W.O., Jr., ed. et al. [1995.eng] 50-1159
- Arctic ozone depletion observed by UARS MLS during the 1994-95 winter. Manney, G.L., et al. [1996.eng] 50-3603
- Arctic ozone hole—a myth or a possibility. Singh, O.N., et al. [1995.eng] 50-4529
- Arctic polar stratospheric cloud observations by airborne lidar. McCormick, M.P., et al. [1990.eng] 50-5988
- Arctic process and climate studies with the TOVS satellite sounder. Francis, J.A., [1994.eng] 50-684
- Arctic sea ice decreases related to wind variations. Maslanik, J.A., et al. [1996.eng] 50-6511
- Arctic stratospheric aerosol distribution. Brune, W.H., et al. [1990.eng] 50-6014
- Arctic stratospheric cloud and temperature variations, 1989. Hoffmann, D.J., [1990.eng] 50-5985
- Arctic wasteland: a perspective on arctic pollution. Davis, N., [1996.eng] 50-5838
- Arctic. Barry, R.G., [1996.eng] 50-4977
- Arktis 1993: report on the field phase with examples of measurements. Brümmer, B., ed. [1993.eng] 50-4945
- Assessment of global climate model simulations of arctic air temperatures. Tao, X., et al. [1996.eng] 50-5532
- ATLAS instrument characterization: accuracy of the AASE and AAOE nitrous oxide data sets. Loewenstein, M., et al. [1990.eng] 50-6008
- Atmosphere-ocean interactions in the marginal ice zones of the Nordic seas. Guest, P.S., et al. [1995.eng] 50-1161
- Atmosphere-surface interactions over polar oceans and heterogeneous surfaces. Viikma, T., [1995.eng] 50-4035
- Atmospheric aerosol turbidity over polar regions. Radionov, V.F., et al. [1995.eng] 50-6326
- Atmospheric bromine in the Arctic. Berg, W.W., et al. [1983.eng] 50-3650
- Atmospheric chemistry changes versus past climate inferred from polar ice cores. Legrand, M., [1995.eng] 50-1643
- Atmospheric circulation in the region of Arctowski Station, 1986-1989. Kejna, M., [1993.eng] 50-2204
- Atmospheric contribution to hydrologic variations in the Arctic. Walsh, J.E., et al. [1994.eng] 50-1034
- Atmospheric ozone as a climate gas: general circulation model simulations. Wang, W.C., ed. et al. [1995.eng] 50-1771
- Atmospheric ozone, its depletion and antarctic ozone hole. Ghosh, S.N., et al. [1994.eng] 50-1687
- Atmospheric transparency and the stress of direct solar radiation in the Arctic and Antarctic. Wójcik, G., [1989.pol] 50-2902
- Atmospheric transport effects on arctic stratospheric chemistry. Yateau, J.H., et al. [1990.eng] 50-6020
- Atmospheric water vapour budget over Greenland. Calanca, P., [1994.eng] 50-4944
- Background stratospheric aerosol and polar stratospheric cloud reference models. McCormick, M.P., et al. [1996.eng] 50-6712
- Balloon sounding of arctic stratospheric chemistry. Kondo, Y., et al. [1990.eng] 50-5999
- Behaviour of stratospheric and upper tropospheric ozone in high latitudes. Kyro, E., et al. [1994.eng] 50-3189
- Biennial report 1993-1994. Alaska. University. Geophysical Institute, [1995.eng] 50-2450
- Big freeze digs a deeper hole in ozone layer. Pearce, F., [1996.eng] 50-4204
- Boundary-layer ozone depletion as seen in the Norwegian arctic in spring. Solberg, S., et al. [1996.eng] 50-4152
- Bromine-chlorine coupling in the antarctic ozone hole. Danilín, M.Y., et al. [1996.eng] 50-3065
- Bromofrom emission from ice algae and arctic ozone depletion. Buckley, P.T., [1993.eng] 50-700
- Bursts of cloud condensation nuclei (CCN) by dissipating clouds at Palmer Station, Antarctica. Saxena, V.K., [1996.eng] 50-3602
- Calculating the interaction of processes in the free troposphere and boundary layer. Baranov, G.I., et al. [1990.rus] 50-319
- Calculations of ozone destruction during the 1988/89 arctic winter. McKenna, D.S., et al. [1990.eng] 50-6025
- Case analysis of antarctic strong cyclone process. Luo, Y.J., et al. [1989.chi] 50-6770
- Case study of turbulent parameters during the antarctic winter. Yagüe, C., et al. [1995.eng] 50-1339
- Century of accumulation and temperature changes in Dronning Maud Land, Antarctica. Isaksson, E., et al. [1996.eng] 50-4352
- Characteristics of a sudden drop in average daily air temperatures in the western Arctic. Grakhovskii, G.N., [1990.rus] 50-325
- Chemical characterization of individual aerosol particles in central Siberia. Van Malderen, H., et al. [1996.eng] 50-4966
- Chemical variations between polar stratospheric cloud phases. Ravishankara, A.R., et al. [1996.eng] 50-3443
- Chemistry of ozone in the upper troposphere and lower stratosphere. Ravishankara, A.R., [1995.eng] 50-1777
- Chlorine budget of the lower polar stratosphere. Shindell, D.T., et al. [1995.eng] 50-3091
- Chlorine monoxide in the antarctic spring vortex. pt.2. Shindell, D.T., et al. [1996.eng] 50-3018
- Circulation mechanisms in the atmosphere of the Northern Hemisphere in the 20th century. Dzerdzeevskii, B.L., [1968.rus] 50-3400
- Classification of arctic cloud and sea ice features in multi-spectral satellite data. Key, J.R., [1994.eng] 50-4357
- Climatic changes in Northern Europe. Heino, R., et al. [1994.eng] 50-3183
- Climatic implications of solar modulation of cosmogenic isotopes in antarctic ice cores. Steig, E.J., et al. [1996.eng] 50-3549
- Climatological aspects of cyclone development and decay in the Arctic. Serreze, M.C., [1995.eng] 50-599
- Cloud condensation nuclei over the Arctic Ocean in early spring. Hegg, D.A., et al. [1995.eng] 50-348
- Clouds and snowmelt on the North Slope of Alaska. Zhang, T., et al. [1996.eng] 50-5284
- Comment on paper by Chipperfield et al. Schiller, C., et al. [1996.eng] 50-5462
- Comparison between arctic and antarctic polar stratospheric clouds. Dye, J.E., et al. [1996.eng] 50-6542
- Concentration changes of MSA and major ions in arctic aerosols during polar sunrise. Suzuki, K., et al. [1995.eng] 50-3251
- Condensation nuclei production in the arctic polar vortex. Wilson, J.C., et al. [1990.eng] 50-5983
- Conditions for the formation of extreme average daily air temperatures in the fall in the Kara Sea. Korzhikov, A.I.A., [1990.rus] 50-321
- Conditions for the propagation of short-wave radio waves during ionospheric disturbances. Lukashkin, V.M., [1991.rus] 50-2263
- Connections between atmospheric ozone, the climate system and UV-B-radiation in the Arctic. Taalas, P., et al. [1995.eng] 50-1779
- Coupled ice-ocean-atmosphere model of the Bering Sea. Hedstrom, K.S., [1995.eng] 50-6310

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Polar atmospheres

- Coupling PIXE and SEM/EDAX for characterizing atmospheric aerosols in ice-cores. Laj, P., et al. [1996.eng] 50-6324
- Decadal evolution of the antarctic ozone hole. Jiang, Y., et al. [1996.eng] 50-5253
- Denitrification mechanisms in the polar stratospheres. Toon, O.B., et al. [1990.eng] 50-6001
- Denitrification of the polar winter stratosphere. Hamill, P., et al. [1990.eng] 50-6000
- Description of the Martian polar cap breeze. Fernández, W., [1995.eng] 50-3671
- Detection of air pollution at a Svalbard mountain station. Beine, H.J., et al. [1996.eng] 50-5205
- Detection of climate change in the Arctic: an updated report. Ye, H.C., et al. [1994.eng] 50-3026
- Determining the resolving ability of a method of reestablishing ionospheric currents. Kotikov, A.L., et al. [1991.rus] 50-1635
- Development of a regional climate model of the western Arctic. Lynch, A.H., et al. [1995.eng] 50-597
- Diagnostics of the polar ionosphere using oblique and reverse-oblique sounding. Vovk, V.I.A., [1991.rus] 50-2264
- Differentiation of three-dimensional temperatures and atmospheric humidity (Spitsbergen). Przybylak, R., [1989.pol] 50-2906
- Dimethyl sulfide in the arctic atmosphere. Ferek, R.J., et al. [1995.eng] 50-2850
- Distribution and transport of atmospheric water vapour over the arctic basin. Serreze, M.C., et al. [1995.eng] 50-5217
- Distributions of volcanic aerosols in antarctic polar stratospheric clouds. Adriani, A., et al. [1995.eng] 50-2848
- Doppler spectroscopy of antarctic wind velocities. Nakajima, H., et al. [1995.eng] 50-3811
- Downwelling radiation flux at continental surfaces. Garratt, J.R., et al. [1996.eng] 50-5018
- DTR and cloudcover in the Nordic countries: observed trends and estimates for the future. Kaas, E., et al. [1994.eng] 50-3027
- Dual-polarization airborne lidar observations of polar stratospheric cloud evolution. Poole, L.R., et al. [1990.eng] 50-5990
- ECMWF analyses and predictions of the surface climate of Greenland and Antarctica. Genthon, C., et al. [1995.eng] 50-1327
- Effect of atmospheric circulation on the formation of clouds in Hornsund. Niedzwiedz, T., et al. [1989.pol] 50-2905
- Effect of dynamical mixing in a simple model of the ozone hole. Edouard, S., et al. [1996.eng] 50-6332
- Effect of solar activity on the recurrence of basic forms of atmospheric circulation. Bolotinskaja, M.Sh., [1990.rus] 50-331
- Effect of volcanic aerosols on ultraviolet radiation in Antarctica. Tsitas, S.R., et al. [1996.eng] 50-3066
- Electrodynamics of the upper atmosphere and radio aurora in the northern polar cap. Kustov, A.V., et al. [1994.eng] 50-1964
- Encyclopedia of climate and weather. [1996.eng] 50-4973
- Equilibrium constant for the reaction of $\text{ClO} + \text{O}_2 \leftrightarrow \text{ClOO} + \text{O}_2$. Demore, W.B., [1990.eng] 50-4732
- Estimating the characteristics of high-latitude radio communication lines. Lukashin, V.M., [1991.rus] 50-1641
- Estimating the energy contribution of precipitating electrons to total ozone. Osechkin, V.V., [1994.rus] 50-4105
- Estimating the vertical dimension of convective cloudiness over the polar ocean from AVHRR data. Manschke, A., [1992.eng] 50-220
- Evaluation of ionospheric inhomogeneities using reverse-oblique sounding. Vovk, V.I.A., [1991.rus] 50-2265
- Evidence for polar ozone depletion in late February and early March 1994. Manney, G.L., et al. [1995.eng] 50-4540
- Evidence for midwinter chemical ozone destruction over Antarctica. Vömel, H., et al. [1995.eng] 50-754
- Evidence for the removal of gaseous HNO_3 inside the arctic polar vortex in January 1992. Höpfner, M., et al. [1996.eng] 50-3064
- Evidence of arctic-wide atmospheric aerosols from DMSP visible imagery. Shine, K.P., et al. [1984.eng] 50-4494
- Evidence of mechanism for polar stratospheric cloud dehydration. Gandrud, B.W., et al. [1990.eng] 50-6003
- Evolution of water vapor in the southern polar stratosphere. Lahoz, W.A., et al. [1996.eng] 50-5011
- Feasibility study of an ionospheric database. Checha, V.A., [1991.rus] 50-1640
- Föhn winds on Kaffiöyra (NW Spitsbergen). Kejna, M., [1989.pol] 50-2911
- Forecasting of maximum observed frequencies on high latitude short-wave radio lines. Egorova, L.V., et al. [1991.rus] 50-2268
- Formation of nitric acid hydrates—a chemical equilibrium approach. Smith, R.H., [1990.eng] 50-4728
- Formation of polar stratospheric clouds on preactivated background aerosols. Zhang, R.Y., et al. [1996.eng] 50-6510
- Formation of strong winds in the Arctic in groups of homogeneously developed macroprocesses. Kuznetsov, A.V., et al. [1990.rus] 50-323
- Further discussion on simulation of the modern arctic climate by the NCAR CCM1. Williamson, D.L., et al. [1996.eng] 50-6573
- GCM modeling of the stratospheric dynamics and its coupling with chemistry. Cariolle, D., et al. [1995.eng] 50-1773
- GCM study of the climatic effect of 1979-1992 ozone trend. Liang, X.Z., et al. [1995.eng] 50-1776
- General patterns in the transformation of macroprocesses in March-August. Bolotinskaja, M.Sh., [1990.rus] 50-326
- Global three-dimensional constituent fields derived from profile data. Douglass, A.R., et al. [1990.eng] 50-6018
- Greenland atmospheric aerosol composition during a foehn. Kikuchi, K., et al. [1996.eng] 50-6216
- Ground-based aerosol measurements at Arrival Heights, Antarctica. Kreher, K., et al. [1996.eng] 50-6681
- Halocarbon seasonal variations in the arctic troposphere. Yokouchi, Y., et al. [1996.eng] 50-5612
- Heterogeneous chemistry of polar stratospheric clouds. Mather, J.H., et al. [1990.eng] 50-4726
- Heterogeneous conversion of COF_2 to HF in polar stratospheric clouds. Wofsy, S.C., et al. [1990.eng] 50-6004
- Heterogeneous interactions of aerosol radicals on simulated cloud ice surface. Cooper, P.L., et al. [1996.eng] 50-4142
- Heterogeneous interactions of stratospheric aerosols. Abbatt, J.P.D., [1996.eng] 50-6512
- Highest usable frequencies on the Bellingshausen-Molodetz-naya path in winter. Besprozvannaja, A.S., et al. [1991.rus] 50-2272
- Hydrogen species partitioning in the arctic stratosphere. Schiller, C., et al. [1996.eng] 50-5766
- Ice forming nuclei in the high Arctic. Bigg, E.K., [1996.eng] 50-4317
- Icelandic Low. Horden, R.M., [1996.eng] 50-4992
- Impact of heterogeneous reactions on stratospheric chemistry of the Arctic. Douglass, A.R., et al. [1989.eng] 50-4708
- Improved segmentation of sea ice in radiometric imagery. Simpson, J.J., et al. [1995.eng] 50-3494
- In situ measurements of BrO in the arctic stratosphere. Toohey, D.W., et al. [1990.eng] 50-6015
- In situ measurements of NO_2 in the Airborne Arctic Stratospheric Expedition. Carroll, M.A., et al. [1990.eng] 50-6011
- Influence of forest fire aerosols on sampling of polar atmospheres. Polissar, A.V., et al. [1996.eng] 50-5206
- Infrared absorption coefficients of gaseous chlorine nitrate at 296 K. Tuzson, E.C., et al. [1989.eng] 50-4709
- Infrared measurement of arctic atmospheric chemical species. Wetzel, G., et al. [1995.eng] 50-2115
- Infrared radiometry of optical thickness of clouds in the Arctic. Stammes, K., et al. [1996.eng] 50-5283
- Infrasonic signatures of a polar low in the Norwegian and Barents Sea on 23-27 March 1992. Ørbæk, J.B., et al. [1995.eng] 50-2026
- Interaction of arctic fogs with aerosols. Nilsson, E.D., et al. [1996.eng] 50-4318
- International Conference on the Role of Polar Regions in Global Change. Weller, G.E., [1991.eng] 50-5436
- Interpretation of nitric oxide profile observed in January 1992 over Kiruna. Kondo, Y., et al. [1996.eng] 50-6637
- Ion-induced nucleation around radon daughters in remote arctic maritime air. Bigg, E.K., [1996.eng] 50-4322
- Katabatic winds over an East Antarctic cirque. Jonsson, S., [1995.eng] 50-1338
- Kinetic measurements of the $\text{ClO} + \text{O}_3 \rightarrow \text{ClOO} + \text{O}_2$ reaction. Stevens, P.S., et al. [1990.eng] 50-4727
- Labrador Sea atmospheric circulation/sea-ice anomalies. Newell, J.P., [1996.eng] 50-6227
- Lagrangian transport calculations using UARS data. Part II: ozone. Manney, G.L., et al. [1995.eng] 50-365
- Lidar measurements of arctic polar ozone depletion. Wirth, M., et al. [1996.eng] 50-5286
- Lidar observation of wintertime polar stratospheric clouds. Browell, E.V., et al. [1990.eng] 50-5989
- Lidar observations of polar stratospheric cloud growth. Poole, L.R., et al. [1988.eng] 50-4634
- Lidar observations of stratospheric temperature above McMurdo Station, Antarctica. Di Donfrancesco, G., et al. [1996.eng] 50-5605
- Lidar of Canadian arctic stratospheric ozone. Donovan, D.P., et al. [1995.eng] 50-3095
- Links between the lowest observed frequencies and errors in their forecasting at high latitudes. Ignatov, V.S., et al. [1991.rus] 50-2266
- Long-term arctic stratospheric temperature variations. Nagatani, R.M., et al. [1990.eng] 50-5978
- Long-term variability of the atmospheric circulation over Spitsbergen. Niedzwiedz, T., [1993.eng] 50-2182
- Loss of ozone in the arctic vortex for the winter of 1989. Salawitch, R.J., et al. [1990.eng] 50-6027
- Low-temperature photochemistry of submicrometer nitric acid and ammonium nitrate layers. Koch, T.G., et al. [1996.eng] 50-6682
- Mean annual air temperature trends since 1904 in the South Shetland Islands. Han, J.K., et al. [1995.chi] 50-5639
- Measurements of nitrogen oxides in the Arctic. Honrath, R.E., et al. [1990.eng] 50-6028
- Measurements of total reactive nitrogen during the Airborne Arctic Stratospheric Expedition. Kawa, S.R., et al. [1990.eng] 50-6009
- Mechanisms of direct and indirect climate forcing by aerosols in the arctic region. Blanchet, J.P., [1995.eng] 50-1642
- Meteor-3/TOMS observations of the 1994 ozone hole. Herman, J.R., et al. [1995.eng] 50-3092
- Method of conducting observations with a digital component magnetometer at antarctic stations. Gizler, V.A., [1991.rus] 50-1636
- Microwave radiometry for monitoring the diverse cloudiness regimes on Earth: a review. Katsaros, K.B., [1992.eng] 50-227
- Mid stratospheric ozone minima in polar regions. Austin, J., et al. [1995.eng] 50-1181
- Missing chemistry of reactive nitrogen in the upper stratospheric polar winter. Kawa, S.R., et al. [1995.eng] 50-1189
- Model calculations of ozone depletion in the arctic polar vortex for 1991/92 to 1994/95. Chipperfield, M.P., et al. [1996.eng] 50-3551
- Model of arctic air pollution by sulfur aerosols. Dastoor, A.P., et al. [1996.eng] 50-5450
- Model of wintertime stratospheric circulation. Eluszkiewicz, J., et al. [1995.eng] 50-1330
- Model study of polar stratospheric clouds, pt.1. De Rudder, A., et al. [1996.eng] 50-6638
- Model study of polar stratospheric clouds, pt.2. Tie, X.X., et al. [1996.eng] 50-6639
- Modeling and observational study of East Antarctic surface mass balance. Connolley, W.M., et al. [1996.eng] 50-3017
- Modeling the summertime arctic cloudy boundary layer. Curry, J.A., et al. [1996.eng] 50-5275
- Modelling arctic climate change. Cattle, H., et al. [1995.eng] 50-5227
- Monitoring organic pollutants in the Arctic in 1992. Fellin, P., et al. [1996.eng] 50-4359
- N_2O as a dynamical tracer in the arctic vortex. Loewenstein, M., et al. [1990.eng] 50-6007
- Natural orthogonal components of winter anomalies in the surface air temperature field. Vangengeim, T.G., et al. [1990.rus] 50-332
- Near UV polar stratospheric absorption measurements. Wahner, A., et al. [1990.eng] 50-6012
- Nitric acid in polar stratospheric clouds. Pueschel, R.F., et al. [1990.eng] 50-5997
- Nitric oxide measurements in the arctic winter stratosphere. Fahey, D.W., et al. [1990.eng] 50-6010
- Noctilucent cloud observations over Greenland by a Rayleigh lidar. Thayer, J.P., et al. [1995.eng] 50-4542
- Noctilucent clouds and the thermal structure near the arctic mesopause in summer. Lübken, F.J., et al. [1996.eng] 50-5453
- North Polar stratospheric cloud dynamics. Rosen, J.M., et al. [1990.eng] 50-4723
- North Pole. Headland, R.K., [1996.eng] 50-4994
- Numerical analysis of atmospheric water cycle over Antarctica. Bromwich, D.H., et al. [1995.eng] 50-2020
- Numerical case study of a polar low in the Labrador Sea. Mailhot, J., et al. [1996.eng] 50-5869
- Numerical modeling of heterogeneous ozone depletion in polar stratospheric clouds. Smyshlaev, S.P., [1994.eng] 50-2109
- Numerical simulation of arctic stratus cloud turbulence. Smith, W.S., et al. [1996.eng] 50-2773
- Numerical simulation of polar lows. Grønås, S., et al. [1995.eng] 50-2525
- Numerical simulation of the Martian polar cap breeze. Fernández, W., [1995.eng] 50-3672
- Objective determination of the polar vortex using Ertel's potential vorticity. Nash, E.R., et al. [1996.eng] 50-5452
- Observation of a new absorption band of HOBr and its atmospheric implications. Barnes, R.J., et al. [1996.eng] 50-3968
- Observational and theoretical studies of solar radiation in arctic stratus clouds. Herman, G.F., et al. [1984.eng] 50-4913
- Observational studies of the role of polar regions in mid-latitude ozone loss. Jones, R.L., et al. [1995.eng] 50-3094
- Observational study of the katabatic wind confluence zone near Siple Coast, West Antarctica. Bromwich, D.H., et al. [1996.eng] 50-4157
- Observations of polar stratospheric clouds in the arctic winter 1989 at 79°N. Krüger, B.C., [1990.eng] 50-5984
- Observed particle evolution in the polar stratospheric cloud of January 24, 1989. Dye, J.E., et al. [1990.eng] 50-5996
- On forecasting extreme average daily air temperatures in the Kara Sea. Korzhikov, A.I.A., [1990.rus] 50-324
- On the age of stratospheric air and inorganic chlorine and bromine release. Daniel, J.S., et al. [1996.eng] 50-6331
- On the formation of electron depletions at the summer polar mesopause. Klostermeyer, J., [1996.eng] 50-3600
- On the particle characteristics of PSCs inferred from polarimetric experiment. Maslowska, A., et al. [1994.eng] 50-1114
- Optical backscatter characteristics of arctic polar stratospheric clouds. Kent, G.S., et al. [1990.eng] 50-5987
- Organization of regional forecasting services using oblique sounding of the ionosphere. Khodzha-Akhmedov, Ch.L., [1991.rus] 50-2262
- Origin of present-day antarctic precipitation from surface snow deuterium excess data. Clais, P., et al. [1995.eng] 50-636
- Overview of the Arctic Ocean Expedition of 1991 (AOE-91). Leck, C., et al. [1996.eng] 50-4312
- Ozone and aerosol correlated observations at Thule, Greenland, in the period 1991-1994. Di Sarra, A., et al. [1995.eng] 50-2849
- Ozone anomalies during the Arctic Boundary Layer Experiment. Smarsh, D.A., [1994.eng] 50-677
- Ozone hole. Hall, T.M., [1996.eng] 50-4995
- Ozone in northern Europe and in Antarctica, 1987-1990. Taalas, P., [1992.eng] 50-5272
- Ozone layer concentration over the Weddell Sea. Elanskii, N.F., et al. [1995.eng] 50-6328
- Ozone loss in middle latitudes and the role of the arctic polar vortex. Pyle, J.A., [1995.eng] 50-5230
- Periodic auroral events at the high-latitude convection reversal in the 16 MLT region. Sandholt, P.E., et al. [1990.eng] 50-4729

Polar deserts

- Photodissociation of condensed films of chlorine dioxide. Lanzendorf, E.J., et al. [1996.eng] 50-6679
- Photometry of Mt. Pinatubo aerosols at Spitsbergen. Beyerle, G., et al. [1995.eng] 50-1183
- Photooxidants in the marine arctic troposphere in summer. Weller, R., et al. [1996.eng] 50-5255
- Physical characteristics of arctic stratus clouds. Tsay, S.C., et al. [1984.eng] 50-4922
- Physicochemical properties and partitioning of organochlorine compounds in air and water. Falconer, R.L.M., [1994.eng] 50-688
- Planetary waves in total ozone and their relation to antarctic ozone depletion. Bodeker, G.E., et al. [1995.eng] 50-4541
- Pliocene record in the central Arctic Ocean. Clark, D.L., [1996.eng] 50-6626
- Polar lows. Rasmussen, E.A., [1996.eng] 50-4997
- Polar Ozone and Aerosol Measurement instrument. Glaccum, W., et al. [1996.eng] 50-5765
- Polar stratospheric cloud event of January 24: part 2, photochemistry. Jones, R.L., et al. [1990.eng] 50-6022
- Polar stratospheric cloud event, 1989, pt.1. Poole, L.R., et al. [1990.eng] 50-6021
- Polar stratospheric cloud influence on arctic atmospheric chemistry. Jones, R.L., et al. [1990.eng] 50-6023
- Polar stratospheric radiation absorption measurements, pt.2. Schiller, C., et al. [1990.eng] 50-6013
- Polar stratospheric radiation absorption measurements, pt.3. Wahner, A., et al. [1990.eng] 50-6016
- Polar vortex edge definition from stratospheric lidar data. Dameris, M., et al. [1995.eng] 50-346
- POST: Polar Stratospheric Telescope. Bely, P.Y., et al. [1995.eng] 50-2527
- Potential character of the distribution of basic physical properties of the polar ionosphere. Shirochkov, A.V., [1991.rus] 50-1637
- Potential for using wind energy on Hornsund. Skrzypczak, E., [1989.pol] 50-2908
- Precision measurements and theoretical calculations for solar ultraviolet radiation. Jokela, K., et al. [1994.eng] 50-3190
- Predicting the maximum available frequencies using a numerical model of the high latitude ionosphere. Vovk, V.I.A., et al. [1991.rus] 50-2267
- Preliminary analysis of the cyclone activity over the Antarctic Peninsula in summer. Wang, D.C., et al. [1989.chi] 50-6769
- Preliminary results from POAM II: stratospheric ozone at high northern latitudes. Randall, C.E., et al. [1995.eng] 50-1213
- Pressure cutoff effects on polar stratospheric chemistry. Cerniglia, M.C., et al. [1995.eng] 50-588
- Pressure dependence of the reaction between ClO and OClO at 226K. Parr, A.D., et al. [1990.eng] 50-4733
- Proceedings. Atmospheric Radiation Measurement (ARM) Science Team Meeting, 5th, San Diego, CA, Mar. 19-23, 1995. [1996.eng] 50-5274
- Processes in the polar cap and magnetosphere in the presence of northern permafrost. Trushchev, O.A., [1991.rus] 50-1634
- Prognostic relationships for more accurate general meteorological forecasts. Vangengeim, T.G., [1990.rus] 50-327
- Radiative heating rates during the Airborne Arctic Stratospheric Expedition. Rosenfield, J.E., et al. [1990.eng] 50-5981
- Radiative transfer in atmosphere-sea ice-ocean system. Jin, Z., et al. [1996.eng] 50-5276
- Radiometry of Scandinavian atmospheric chemistry. Wehr, T., et al. [1995.eng] 50-1332
- Reaction probabilities of ClONO₂ and N₂O₅ on polar stratospheric cloud materials. Hanson, D.R., et al. [1991.eng] 50-3649
- Recent trends in ozone changes and increased greenhouse gases. Graf, H.F., et al. [1995.eng] 50-1775
- Reconstruction of O₃ and N₂O fields from ER-2, DC-8, and balloon observations. Lait, L.R., et al. [1990.eng] 50-6017
- Record low Siberian ozone levels. Bojkov, R.D., et al. [1995.eng] 50-1212
- Recovery of ozone in the lower stratosphere at the South Pole during the spring of 1994. Hofmann, D.J., et al. [1995.eng] 50-1182
- Redistribution of reactive odd nitrogen in the lower arctic stratosphere. Hübler, G., et al. [1990.eng] 50-6002
- Regional variations of moist static energy flux into the Arctic. Overland, J.E., et al. [1996.eng] 50-3816
- Relationship between atmospheric circulation and antarctic ozone depletion. Butchart, N., et al. [1996.eng] 50-3963
- Relationship of meridional and latitudinal gradients to synoptic processes. Kuznetsov, A.V., et al. [1990.rus] 50-320
- Remote sensing for global change, climate change and atmosphere & ocean forecasting. European "International Space Year" Conference, Munich, Germany, 30 March-4 April 1992. [1992.eng] 50-219
- Report on acidification in the arctic countries. Nenonen, M., [1991.eng] 50-3418
- Report on heavy metals. Mel'nikov, S.A., [1991.eng] 50-3419
- Resolved: the Arctic controls global climate change. Alley, R.B., [1995.eng] 50-1167
- Results of testing of prognostic relationships for more accurate general meteorological forecasts. Bolotinskaia, M.Sh., et al. [1990.rus] 50-328
- Rocket-borne spectrometry of arctic stratospheric chemistry. Schlager, H., et al. [1990.eng] 50-5998
- Role of atmospheric waves in the laminated structure of ozone profiles at high latitude. Teitelbaum, H., et al. [1996.eng] 50-5871

- Role of droplet composition in polar stratospheric cloud freezing. Meilingner, S.K., et al. [1995.eng] 50-4874
- Role of industries and environmental effects on corrosion control in the North. Dutta, P.K., [1996.eng] 50-3760
- SAM II aerosol measurements during the 1989 AASE. Osborn, M.T., et al. [1990.eng] 50-5992
- SAM II and lidar aerosol profile comparisons during AASE. Osborn, M.T., et al. [1990.eng] 50-5993
- Satellite monitoring of antarctic stratosphere volcanic aerosols. Saxena, V.K., et al. [1995.eng] 50-591
- Satellite observation of arctic ozone depletion. Müller, R., et al. [1996.eng] 50-6636
- Satellite sounding of arctic stratospheric temperatures. Claud, C., et al. [1996.eng] 50-3445
- Satellite studies of pollution in the Barents and Kara seas. Kögel, J., et al. [1995.eng] 50-4136
- Scientific plan for a regional research programme in the Arctic on global change. International Arctic Science Committee (IASC). Oslo, Norway. [1994.eng] 50-1508
- Sea-breeze winds in Kaffiöya (NW Spitsbergen) in the summer of 1985. Kejna, M., [1989.pol] 50-2912
- Seasonal aerosol variability in the arctic marine boundary layer. Leck, C., et al. [1996.eng] 50-4320
- Seasonal cycle of C₂-C₃ hydrocarbons over the Baltic Sea and northern Finland. Laurila, T., et al. [1996.eng] 50-5607
- Simulated effects of dichlorine hexoxide on stratospheric ozone depletion. Parthiban, S., et al. [1995.eng] 50-2019
- Simulating the evolution of the chemical composition of the 1988/89 winter vortex. Jones, R.L., et al. [1990.eng] 50-6024
- Simulation of arctic stratospheric response to aerosol perturbations. Zhao, X.P., et al. [1996.eng] 50-6680
- Simulation of polar stratospheric aerosols. Kaye, J.A., et al. [1990.eng] 50-6019
- Simulations of stratospheric ozone in a climate model. Austin, J., et al. [1995.eng] 50-1772
- Small-scale physical processes in the Arctic Ocean. Padman, L., [1995.eng] 50-1162
- Small-scale waves encountered during AASE. Bacmeister, J.T., et al. [1990.eng] 50-5982
- Solar heating of the arctic mixed layer. Maykut, G.A., et al. [1995.eng] 50-2775
- Solar irradiance, air pollution and temperature changes in the Arctic. Stanhill, G., [1995.eng] 50-5231
- Solar particle origin for polar ice core nitrate anomalies. Zeller, E.J., et al. [1995.eng] 50-1184
- Solvation of hydrogen halides on the surface of ice. Robertson, S.H., et al. [1995.eng] 50-6069
- Sounding of aerosol formation in the arctic stratosphere. Hofmann, D.J., et al. [1990.eng] 50-4725
- Sounding of arctic polar stratospheric clouds, 1990. Hofmann, D.J., et al. [1990.eng] 50-4731
- Sounding of nitric acid aerosol in the arctic stratosphere. Schlager, H., et al. [1990.eng] 50-4724
- Sounding of polar stratospheric ozone annual variations. Grudzev, A.N., et al. [1995.eng] 50-4748
- Source of summer arctic atmospheric aerosols. Maenhaut, W., et al. [1996.eng] 50-4321
- Sources and distribution of sulfate in the Pacific atmosphere. Chen, L.Q., et al. [1989.chi] 50-6786
- Sources of biogenic sulfur in the high Arctic. Hopke, P.K., et al. [1995.eng] 50-589
- Sources of organic carbon aerosols in the arctic atmosphere. Kawamura, K., et al. [1996.eng] 50-5611
- Space-time distribution of electron density in the maximum of the F₂ layer at high latitudes. Besprozvannaya, A.S., [1991.rus] 50-1638
- Space-time distribution of temperature inversions in the arctic atmospheric boundary layer. Nagurnyi, A.P., [1995.eng] 50-2728
- Spaceborne observation of atmospheric precursors to polar stratospheric cloud formation. Geller, M.A., et al. [1995.eng] 50-4539
- Spectra of polar mesospheric noctilucent cloud ice nuclei. Sugiyama, T., et al. [1996.eng] 50-4255
- Spectral deviations of HF signals in antarctic radio lines. Khodzha-Akhmedov, Ch.L., et al. [1991.rus] 50-2271
- Spectrometry of atmospheric emission over the South Pole. Van Allen, R., et al. [1996.eng] 50-4328
- Spectroscopic study of heavy ozone isotopes in the arctic atmosphere. Meier, A., et al. [1996.eng] 50-3550
- Spectroscopy of antarctic stratospheric ozone variations, pt.2. Cheng, D.J., et al. [1996.eng] 50-4349
- Spectroscopy of freezing mechanisms of sulfuric acid aerosols. Bertram, A.K., et al. [1996.eng] 50-4143
- Statistical characteristics of average daily air temperatures in the Arctic. Grakhovskii, G.N., [1990.rus] 50-322
- Stratospheric constituent trends from ER-2 profile data. Schoeberl, M.R., et al. [1990.eng] 50-6005
- Stratospheric ozone layer above Spitsbergen in winter 1989. Neuber, R., et al. [1990.eng] 50-5975
- Stratospheric ozone research in Finland, focusing on atmospheric modelling. Rummukainen, M., et al. [1995.eng] 50-1778
- Stratospheric polar vortex and sub-vortex: fluid dynamics and midlatitude ozone loss. McIntyre, M.E., [1995.eng] 50-5229
- Stratospheric temperature variations in the north polar vortex. Zurek, R.W., et al. [1996.eng] 50-3070
- Stratospheric temperatures during AASE: results from STRATAN. Rood, R.B., et al. [1990.eng] 50-5979

- Stratospheric temperatures during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990.eng] 50-5977
- Studies of the polar middle and lower atmosphere by an MST radar on Svalbard. Røtger, J., et al. [1995.eng] 50-4262
- Studying the probability of the transmission of decimeter radio waves over radio lines. Lukashkin, V.M., et al. [1991.rus] 50-2269
- Sudden changes in arctic atmospheric aerosol concentrations during summer and autumn. Bigg, E.K., et al. [1996.eng] 50-4319
- Sulfate aerosols and climate change. Kerminen, V.-M., et al. [1994.eng] 50-3188
- Sulfide oxidation products in the antarctic atmosphere. Davison, B., et al. [1996.eng] 50-5615
- Sulfur hexafluoride—a powerful new atmospheric tracer. Maiss, M., et al. [1996.eng] 50-5608
- Sulfuric acid monohydrate: formation and heterogeneous chemistry in the stratosphere. Zhang, R.Y., et al. [1995.eng] 50-635
- Surface ozone at high latitudes. Theodorsen, A., et al. [1996.eng] 50-4871
- Surface spectrometry of arctic seasonal atmospheric ozone variations. Pommeroy, J.P., et al. [1988.eng] 50-4636
- Synoptic-statistical method of forecasting air temperature in the Arctic. Ivanov, V.V., [1990.rus] 50-329
- The presence of metastable HNO₃/H₂O solid phases in the stratosphere inferred from ER 2 data. Tabazadeh, A., et al. [1996.eng] 50-5254
- Thermospheric neutral winds at Watson Lake, Yukon Territory. Niciejewski, R.J., et al. [1996.eng] 50-6683
- Total hydrogen budget in the arctic winter stratosphere. Engel, A., et al. [1996.eng] 50-5767
- Total ozone during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990.eng] 50-5974
- Transarctic acoustic propagation. Mikhalevsky, P.N., et al. [1995.eng] 50-6273
- Transport of chemical species from the northern polar vortex. Norton, W.A., et al. [1995.eng] 50-5917
- Tropospheric chemistry of greenhouse gases in Finnish conditions. Laurila, T., et al. [1994.eng] 50-3191
- Twenty-four hour course of wind temperatures at Arctowski Station (King George Island, South Shetlands). Wójcik, G., et al. [1989.pol] 50-2904
- U.S. FROST: Data and Science Plan. Report from the U.S. Science FROST Workshop, 2 and 3 August 1993. Bromwich, D.H., ed. et al. [1993.eng] 50-3332
- Ultrafine aerosol presence in the arctic atmospheric boundary layer. Wiedensohler, A., et al. [1996.eng] 50-4316
- Unsuitability of meteoritic and other nuclei for polar stratospheric cloud freezing. Biermann, U.M., et al. [1996.eng] 50-6813
- Upper Atmosphere Research Satellite (UARS) Microwave Limb Sounder (MLS) experiment. Waters, J., et al. [1992.eng] 50-3561
- Uptake of chlorine dioxide by model PSCs under stratospheric conditions. Brown, L.A., et al. [1996.eng] 50-4164
- Uptake of HBr on ice at polar atmospheric conditions. Chu, L.T., et al. [1995.eng] 50-3090
- Variability in atmospheric circulation and moisture flux over the Arctic. Serreze, M.C., et al. [1995.eng] 50-5228
- Volcanic ash variations in the antarctic stratosphere. Anderson, J., et al. [1996.eng] 50-5613
- Volcanic perturbation of the atmosphere in both polar regions: 1991-1994. Herbert, A., et al. [1996.eng] 50-3444
- Wind forcing of marine primary production in the northern atmospheric low-pressure belt. Sakshaug, E., et al. [1995.eng] 50-4130
- Wind velocities and frequency of its hourly values at Arctowski Station. Wójcik, G., et al. [1989.pol] 50-2903
- Wintertime polar low over the eastern Weddell Sea. Heinemann, G., [1996.eng] 50-3708
- Yearly cycle of lower tropospheric ozone at the Arctic Circle. Rummukainen, M., et al. [1996.eng] 50-5614
- Zonal asymmetries in simulation of arctic stratospheric ozone. Isaksen, I.S.A., et al. [1990.eng] 50-6026

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See [also]: Deserts

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Polar regions

- Carbon and water in polar lichens. Kappen, L., et al. [1995.eng] 50-3782
- Chemical reactions in the polar stratosphere. Seisel, S., [1996.eng] 50-4734
- Comparison of arctic, antarctic, and Himalayan ice. Pathak, R.C., [1989.eng] 50-3401
- From card catalog to computer file: the impact of technology on the production of polar bibliographic databases. Andrews, M., [1994.eng] 50-5247
- High-resolution ultraviolet spectral irradiance monitoring program in polar regions. Booth, C.R., et al. [1993.eng] 50-593
- Hoods, mists, frosts, and ice caps at the poles of Mars. Dollfus, A., et al. [1996.eng] 50-5194
- Latitudinal variations in lichen biology. Schipperges, B., et al. [1995.eng] 50-3781
- Low brightness temperatures of Martian polar caps: CO₂ clouds or low surface emissivity? Forget, F., et al. [1995.eng] 50-2120
- Marine seismic profiling in ice covered regions. Jokik, W., et al. [1995.eng] 50-2568
- North Pole. Headland, R.K., [1996.eng] 50-4994

Polar stratospheric clouds

Pollen

- Polar research: U.S. policy and interests. Mielke, J.E., [1996,eng] 50-5600
- Report of "Workshop on the Glaciological Technology in Polar Regions". Kamiyama, K., [1995,jpn] 50-661
- See [also]: Arctic landscapes
- Polar stratospheric clouds**
- 1-D model of the formation and evolution of polar stratospheric clouds. Panegrossi, G., et al., [1996,eng] 50-3812
- Adsorption and ionization of HCl on an ice surface. Banham, S.F., et al., [1996,eng] 50-5940
- Adsorption and photochemistry of dinitrogen tetroxide on low temperature ice layers. Rieley, H., et al., [1996,eng] 50-4295
- Adsorption model of polar stratospheric cloud physics. Henson, B.F., et al., [1996,eng] 50-5460
- Aerosol uptake by model polar stratospheric cloud surfaces. Graham, J.D., et al., [1996,eng] 50-4144
- Analysis of lidar observations of polar stratospheric clouds. Toon, O.B., et al., [1990,eng] 50-5991
- Arctic atmospheric particle measurements from forward scattering spectrometer. Dye, J.E., et al., [1990,eng] 50-5995
- Arctic ozone hole—a myth or a possibility. Singh, O.N., et al., [1995,eng] 50-4529
- Arctic polar stratospheric cloud observations by airborne lidar. McCormick, M.P., et al., [1990,eng] 50-5988
- Arctic stratospheric cloud and temperature variations, 1989. Hofmann, D.J., [1990,eng] 50-5985
- Atmospheric ozone as a climate gas: general circulation model simulations. Wang, W.C., ed., et al., [1995,eng] 50-1771
- Background stratospheric aerosol and polar stratospheric cloud reference models. McCormick, M.P., et al., [1996,eng] 50-6712
- Behaviour of stratospheric and upper tropospheric ozone in high latitudes. Kyrö, E., et al., [1994,eng] 50-3189
- Bromine-chlorine coupling in the antarctic ozone hole. Danilin, M.Y., et al., [1996,eng] 50-3065
- Chemical and physical conversion in cold atmosphere and the effect of radiation. Kulmala, M., et al., [1994,eng] 50-3187
- Chemical variations between polar stratospheric cloud phases. Ravishankara, A.R., et al., [1996,eng] 50-3443
- Chemistry of ozone in the upper troposphere and lower stratosphere. Ravishankara, A.R., [1995,eng] 50-1777
- Comparison between arctic and antarctic polar stratospheric clouds. Dye, J.E., et al., [1996,eng] 50-6542
- Complex refractive indices in the infrared of nitric acid trihydrate aerosols. Richwine, L.J., et al., [1995,eng] 50-1188
- Condensation nuclei production in the arctic polar vortex. Wilson, J.C., et al., [1990,eng] 50-5983
- Connections between atmospheric ozone, the climate system and UV-B-radiation in the Arctic. Taalas, P., et al., [1995,eng] 50-1779
- Denitrification of the polar winter stratosphere. Hamill, P., et al., [1990,eng] 50-6000
- Detection of polar stratospheric clouds from satellite. Meerkötter, R., et al., [1992,eng] 50-221
- Detection of polar stratospheric clouds with ERS-2/GOME data. Meerkötter, R., [1995,eng] 50-2150
- Distributions of volcanic aerosols in antarctic polar stratospheric clouds. Adriani, A., et al., [1995,eng] 50-2848
- Dual-polarization airborne lidar observations of polar stratospheric cloud evolution. Poole, L.R., et al., [1990,eng] 50-5990
- Evidence for midwinter chemical ozone destruction over Antarctica. Vömel, H., et al., [1995,eng] 50-754
- Evidence for the removal of gaseous HNO_3 inside the arctic polar vortex in January 1992. Höpfner, M., et al., [1996,eng] 50-3064
- Evidence of mechanism for polar stratospheric cloud dehydration. Gandrud, B.W., et al., [1990,eng] 50-6003
- Formation of nitric acid hydrates—a chemical equilibrium approach. Smith, R.H., [1990,eng] 50-4728
- Formation of polar stratospheric clouds on preactivated background aerosols. Zhang, R.Y., et al., [1996,eng] 50-6510
- GCM modeling of the stratospheric dynamics and its coupling with chemistry. Cariolle, D., et al., [1995,eng] 50-1773
- Growth of acidic polar stratospheric aerosols. Hamill, P., et al., [1996,eng] 50-4311
- Heterogeneous atmospheric bromine chemistry. Lary, D.J., et al., [1996,eng] 50-3019
- Heterogeneous chemistry of polar stratospheric clouds. Mather, J.H., et al., [1990,eng] 50-4726
- Heterogeneous conversion of COF_2 to HF in polar stratospheric clouds. Wofsy, S.C., et al., [1990,eng] 50-6004
- Heterogeneous interactions of aerosol radicals on simulated cloud ice surface. Cooper, P.L., et al., [1996,eng] 50-4142
- Heterogeneous interactions of stratospheric aerosols. Abbatt, J.P.D., [1996,eng] 50-6512
- Hydrogen species partitioning in the arctic stratosphere. Schiller, C., et al., [1996,eng] 50-5766
- Impact of heterogeneous reactions on stratospheric chemistry of the Arctic. Douglass, A.R., et al., [1989,eng] 50-4708
- Interaction of peroxyacetic acid with solid H_2O ice. Li, Z.J., et al., [1996,eng] 50-4350
- Ionisation and solvation of stratospherically relevant molecules on ice films. Banham, S.F., et al., [1995,eng] 50-5959
- Laboratory simulation of polar stratospheric cloud formation. Iraci, L.T., et al., [1995,eng] 50-1333
- Lidar measurements of arctic polar ozone depletion. Wirth, M., et al., [1996,eng] 50-5286
- Lidar observation of wintertime polar stratospheric clouds. Browell, E.V., et al., [1990,eng] 50-5989
- Lidar observations of polar stratospheric cloud growth. Poole, L.R., et al., [1988,eng] 50-4634
- Long-term arctic stratospheric temperature variations. Nagatani, R.M., et al., [1990,eng] 50-5978
- Meteor-3/TOMS observations of the 1994 ozone hole. Herman, J.R., et al., [1995,eng] 50-3092
- Model calculations of ozone depletion in the arctic polar vortex for 1991/92 to 1994/95. Chipperfield, M.P., et al., [1996,eng] 50-3551
- Model study of polar stratospheric clouds, pt.1. De Rudder, A., et al., [1996,eng] 50-6638
- Model study of polar stratospheric clouds, pt.2. Tie, X.X., et al., [1996,eng] 50-6639
- Nitric acid in polar stratospheric clouds. Pueschel, R.F., et al., [1990,eng] 50-5997
- North Polar stratospheric cloud dynamics. Rosen, J.M., et al., [1990,eng] 50-4723
- Numerical modeling of heterogeneous ozone depletion in polar stratospheric clouds. Smyshliaev, S.P., [1994,eng] 50-2109
- Observations of polar stratospheric clouds in the arctic winter 1989 at 79°N. Krüger, B.C., [1990,eng] 50-5984
- Observed particle evolution in the polar stratospheric cloud of January 24, 1989. Dye, J.E., et al., [1990,eng] 50-5996
- On the particle characteristics of PSCs inferred from polarimetric experiment. Maslowska, A., et al., [1994,eng] 50-1114
- On the polar stratospheric cloud formation potential of the northern stratosphere. Pawson, S., et al., [1995,eng] 50-2116
- Optical backscatter characteristics of arctic polar stratospheric clouds. Kent, G.S., et al., [1990,eng] 50-5987
- Ozone and aerosol correlated observations at Thule, Greenland, in the period 1991-1994. Di Sarra, A., et al., [1995,eng] 50-2849
- Ozone loss in middle latitudes and the role of the arctic polar vortex. Pyle, J.A., [1995,eng] 50-5230
- Polar clouds and sulfate aerosols. Tolbert, M.A., [1996,eng] 50-5066
- Polar Ozone and Aerosol Measurement instrument. Glacum, W., et al., [1996,eng] 50-5765
- Polar stratospheric cloud event of January 24: part 2, photochemistry. Jones, R.L., et al., [1990,eng] 50-6022
- Polar stratospheric cloud event, 1989, pt.1. Poole, L.R., et al., [1990,eng] 50-6021
- Polar stratospheric cloud influence on arctic atmospheric chemistry. Jones, R.L., et al., [1990,eng] 50-6023
- PSC nucleation hindered by $\text{H}_2\text{SO}_4 \cdot \text{H}_2\text{O}$. Koop, T., et al., [1996,eng] 50-5068
- Radiative effects of polar stratospheric clouds. Kinne, S., et al., [1990,eng] 50-5986
- Reaction probabilities of ClONO_2 and N_2O_5 on polar stratospheric cloud materials. Hanson, D.R., et al., [1991,eng] 50-3649
- Reactivity of ClONO_2 on H_2^{18}O ice and organic liquids. Hanson, D.R., [1995,eng] 50-1416
- Refractive index and density of vapor-deposited ice. Berland, B.S., et al., [1995,eng] 50-3096
- Relationship between atmospheric circulation and antarctic ozone depletion. Butchart, N., et al., [1996,eng] 50-3963
- Role of droplet composition in polar stratospheric cloud freezing. Meilinger, S.K., et al., [1995,eng] 50-4874
- SAGE II observations of polar stratospheric clouds near 50°N January 31-February 2, 1989. Pitts, M.C., et al., [1990,eng] 50-5994
- SAM II aerosol measurements during the 1989 AASE. Osborn, M.T., et al., [1990,eng] 50-5992
- SAM II and lidar aerosol profile comparisons during AASE. Osborn, M.T., et al., [1990,eng] 50-5993
- Simulations of stratospheric ozone in a climate model. Austin, J., et al., [1995,eng] 50-1772
- Solvation of hydrogen halides on the surface of ice. Robertson, S.H., et al., [1995,eng] 50-6069
- Sounding of aerosol formation in the arctic stratosphere. Hofmann, D.J., et al., [1990,eng] 50-4725
- Sounding of arctic polar stratospheric clouds, 1990. Hofmann, D.J., et al., [1990,eng] 50-4731
- Spaceborne observation of atmospheric precursors to polar stratospheric cloud formation. Geller, M.A., et al., [1995,eng] 50-4539
- Spectroscopy of freezing mechanisms of sulfuric acid aerosols. Bertram, A.K., et al., [1996,eng] 50-4143
- Stratospheric temperature variations in the north polar vortex. Zurek, R.W., et al., [1996,eng] 50-3070
- Stratospheric temperatures during AASE: results from STRATAN. Rood, R.B., et al., [1990,eng] 50-5979
- Stratospheric temperatures during the 88-89 northern hemisphere winter. Newman, P.A., et al., [1990,eng] 50-5977
- The presence of metastable $\text{HNO}_3/\text{H}_2\text{O}$ solid phases in the stratosphere inferred from ER 2 data. Tabazadeh, A., et al., [1996,eng] 50-5254
- Time-dependent wave-packet studies on the sticking of HCl to an ice surface. Wang, L.C., et al., [1996,eng] 50-4767
- Transport of chemical species from the northern polar vortex. Norton, W.A., et al., [1995,eng] 50-5917
- Unsuitability of meteoritic and other nuclei for polar stratospheric cloud freezing. Biermann, U.M., et al., [1996,eng] 50-6513
- Unusual PSCs observed by lidar in Antarctica. Stefanutti, L., et al., [1995,eng] 50-753
- Uptake of chlorine dioxide by model PSCs under stratospheric conditions. Brown, L.A., et al., [1996,eng] 50-4164
- Uptake of HBr on ice at polar atmospheric conditions. Chu, L.T., et al., [1995,eng] 50-3090
- Variability of the arctic stratospheric ozone. Heese, B., [1996,ger] 50-3802
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- Adverse telluric effects on northern pipelines. Seager, W.H., [1991,eng] 50-1761
- Cooperative polarisation in ice I_h and the unusual strength of the hydrogen bond. Heggie, M.I., et al., [1996,eng] 50-3958
- Dipole moment of the water molecule in the condensed phase: a periodic Hartree-Fock estimate. Gatti, C., et al., [1995,eng] 50-3817
- Dual polarization radar observations of thunderclouds in winter season. Sonoi, Y., et al., [1995,eng] 50-4258
- Electrical freezing potentials measured in a pingo growing in the western Canadian Arctic. Parameswaran, V.R., et al., [1996,eng] 50-5471
- Electrification of thunderstorm cells during cloud ice formation. Ramachandran, R., et al., [1996,eng] 50-3020
- Evidence for ferroelectric ordering of ice Ih. Jackson, S.M., et al., [1995,eng] 50-1573
- Modeling of backscattering by non-spherical ice particles for the interpretation of cloud radar signals at 94 GHz. An error analysis. Okamoto, H., et al., [1995,eng] 50-3101
- Paleomagnetic age constraints on New Zealand glacial deposits. Fitzsimons, S.J., et al., [1996,eng] 50-6576
- Smart skis and other adaptive structures. Ashley, S., [1995,eng] 50-4618
- System for detecting ice or snow on surface which specularly reflects light. Stern, H., [1995,eng] 50-3476
- Temperature dependence of static charging in ice growing by riming. Avila, E.E., et al., [1995,eng] 50-3004
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- Airborne imaging microwave radiometer—part I: radiometric analysis. Collins, M.J., et al., [1996,eng] 50-4763
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- Arctic polar stratospheric cloud observations by airborne lidar. McCormick, M.P., et al., [1990,eng] 50-5988
- Backscattering through the melting layer of precipitation. Russchenberg, H.W.J., et al., [1996,eng] 50-2699
- Bistatic scattering of radiowaves by a melting layer of precipitation. Zhang, W., et al., [1996,eng] 50-6335
- Development of a portable ice-thickness measuring instrument. Glynn, D.P., et al., [1992,eng] 50-4908
- Dual-polarization airborne lidar observations of polar stratospheric cloud evolution. Poole, L.R., et al., [1990,eng] 50-5990
- Estimation of ice hydrometeor types and shapes from radar polarization measurements. Matrosov, S.Y., et al., [1995,eng] 50-3609
- Lidar observation of wintertime polar stratospheric clouds. Browell, E.V., et al., [1990,eng] 50-5989
- Light scattering by absorbing hexagonal ice crystals in cirrus clouds. Zhang, J.Y., et al., [1995,eng] 50-984
- Microwave emission from density-stratified antarctic firn at 6 cm wavelength. West, R.D., et al., [1996,eng] 50-4892
- Optical backscatter characteristics of arctic polar stratospheric clouds. Kent, G.S., et al., [1990,eng] 50-5987
- Polarimetric detection of objects buried in snowpack by a synthetic aperture FM-CW radar. Yamaguchi, Y., et al., [1996,eng] 50-2700
- Polarimetric radar at attenuated wavelengths as a hydrological sensor. Sauvageot, H., [1996,eng] 50-5166
- Polarization of cryogenic rocks and its manifestation in electromagnetic sounding curves. Krylov, S.S., et al., [1995,rus] 50-2510
- Radar observation of ice crystal orientation in thunderstorms. Taylor, J.J., et al., [1996,eng] 50-5684
- Radiometry of icy Jovian satellites. Tamppari, L.K., et al., [1995,eng] 50-637
- Retrieval of thin ice thickness from multifrequency polarimetric SAR data. Kwok, R., et al., [1995,eng] 50-349
- Some active and passive microwave signatures of antarctic sea ice from mid-winter to spring 1991. Gohin, F., [1995,eng] 50-161
- Spaceborne radar photography of subarctic landscapes. Vachon, P.W., et al., [1995,eng] 50-4091
- Spectropolarimetry of the 3 micron ice feature toward the Becklin-Neugebauer object. Hough, J.H., et al., [1996,eng] 50-5504
- Surface ice flow and anisotropic internal radar echoes in Queen Maud Land ice sheet. Maeno, H., et al., [1995,eng] 50-2577
- Universal multifractal scaling of synthetic aperture radar images of sea-ice. Falco, T., et al., [1996,eng] 50-5685
- Pollen**
- Microsporogenesis of the Siberian larch in western Siberian Zapolyar'e. Rozhdestvenski, I.U.F., et al., [1995,eng] 50-3966
- On the definition of stratigraphical division boundaries in the Quaternary for the Scandinavian glaciated areas. Mojski, J.E., [1995,eng] 50-2610
- Organic deposits at the bottom and top of sediments suggested to be Würmian. Goździk, J., et al., [1993,pol] 50-3654

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- Pollen assemblages from a borehole in Dabsan Lake. Du, N.Q., et al. [1986,chi] 50-1986
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 Geography and economy. Volume 5: Ecology of the Baltic region (collected scientific papers). Gladkii, I.U.N., ed. et al. [1992,rus] 50-383
 Human impact around polar stations on Fildes Peninsula. Krzyzowska, A., [1993,eng] 50-2189
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 Pollution of natural ice in the Arctic and its indications. Ivanov, A.V., [1989,rus] 50-2301
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- Radiation-induced polymerization in high pressure ice. Kiriukhin, D.P., et al. [1995,eng] 50-415
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 Distribution and biomass of Greenland shelf epibenthic megafauna. Piepenburg, D., et al. [1996,eng] 50-5045
 Effect of sea ice distribution on atmospheric circulation models. Grötzer, A., et al. [1996,eng] 50-5864
 Fluctuations of thin ice area in the Sea of Okhotsk. Enomoto, H., [1996,jpn] 50-5897
 GCM response to an antarctic polynya. Glowienka-Hense, R., [1995,eng] 50-3100
 Hydrobiological research in the Lena polynya. Gukov, A.I.U., [1995,eng] 50-2089
 Improved use of passive microwave data for sea ice detection. Heygster, G.C., et al. [1992,eng] 50-225
 Isotope analysis of Arctic Ocean ice algae primary productivity. Hobson, K.A., et al. [1995,eng] 50-3359
 North Water polynya studies in Baffin Bay. Apr. 1978-Dec. 1979. Müller, F., et al. [1980,eng] 50-3974
 North-East Water polynya: satellite observations summer 1992 and 1993. Gudmandsen, P., et al. [1995,eng] 50-1814
 Ocean Drilling Program in Fram Strait and prediction of ice-free conditions. Wadhams, P., et al. [1995,eng] 50-215
 Palynology and sediment slumping in a high arctic Greenland lake. Fredskild, B., [1995,eng] 50-3368
 Pelagic bryozoan from Antarctica. Peck, L.S., et al. [1995,eng] 50-1827
 Prototype of a moored meteorological/oceanographic buoy for Terra Nova Bay. Gasparoni, F., et al. [1994,eng] 50-5183
 Release of brine-enriched shelf water from Storfjord into the Norwegian Sea. Schauer, U., [1995,eng] 50-574
 Satellite radar survey of Japan Sea ice processes. Martin, S., et al. [1995,eng] 50-1810
 Satellite tracking of high-arctic northern fulmars. Falk, K., et al. [1995,eng] 50-718
 Subgrid parameterization of surface heat and momentum fluxes over polar oceans. Vihma, T., [1995,eng] 50-2110
 Trophic structure of the benthos of the Lena polynya. Gukov, A.I.U., [1995,eng] 50-2090
 Wind events compared with polynya area estimates derived from SSM/I data. Markus, T., et al. [1993,eng] 50-5596
 See [also]: Ice openings

Ponds

- Biogenic organic compounds in ponds on the McMurdo Ice Shelf. Schall, C., et al. [1996,eng] 50-3703
 Case history of a lined wastewater treatment lagoon failure. Merrill, K.S., et al. [1996,eng] 50-6150
 Natural freeze-thaw dewatering of aerated lagoon sludges. Desjardins, M.A., et al. [1996,fre] 50-5808
 Occurrence of an algal bloom under arctic pack ice. Gradingier, R., [1996,eng] 50-4159
 Performance of lagoons experiencing seasonal ice cover. Price, D.S., et al. [1995,eng] 50-2124
 Periphytic diatom assemblages from high arctic ponds. Douglas, M.S.V., et al. [1995,eng] 50-1460
 Persistence of white phosphorus particles in sediment. Walsh, M.E., et al. [1995,eng] 50-878
 Plankton bloom in a Greenland pingo. Kristiansen, J., et al. [1995,eng] 50-366
 Planktonic communities of melt ponds on the McMurdo Ice Shelf, Antarctica. James, M.R., et al. [1995,eng] 50-1282
 Planktonic DNA diversity in the Canadian high Arctic. Van Raay, T.J., et al. [1995,eng] 50-4092
 Rotifers from the Canadian High Arctic (Devon Island, Northwest Territories). De Smet, W.H., et al. [1995,eng] 50-4162
 Use of geosynthetics to prevent waterfowl white phosphorus poisoning. Henry, K.S., et al. [1995,eng] 50-2865

Porosity

- Arctic Ocean echosounding records. Bergmann, U., [1995,ger] 50-3155
 Assessing freezing and thawing resistance of concrete. El-Korchi, T., et al. [1995,eng] 50-2619
 Bubble formation experiments in snow densification. Ishii, S., et al. [1995,eng] 50-3248
 Compaction tests to simulate icy satellite regolith physics. Leliwa-Kopystyński, J., et al. [1995,eng] 50-5200
 Compressibility of thawing ground. Petrov, V.S., [1993,rus] 50-125
 Elasticity of partially saturated frozen sand. Jacoby, M., et al. [1996,eng] 50-4323

Porous materials

- Estimation of unsaturated permeability from suction curves. Thompson, J.D., [1981,eng] 50-2144
 Evolving description of a fractured carbonate reservoir: the Lisburne Field, Prudhoe Bay, Alaska. Missman, R.A., et al. [1991,eng] 50-1755
 Examining the use of time domain reflectometry for measuring liquid water content in frozen soil. Spaans, E.J.A., et al. [1995,eng] 50-2543
 Experimental studies of the interaction of oil with cryogenic rocks. Ershov, E.D., et al. [1996,rus] 50-6823
 Filtration permeability of permafrost. Olovin, B.A., [1993,rus] 50-49
 Flame spread over fuel-spilled and/or snow-covered asphalt road. Ishida, H., et al. [1996,eng] 50-4230
 Forecasting service life of frost-penetrated concrete. Fagerlund, G., [1996,eng] 50-4788
 Formation of ice between hydrotalcite particles measured by thermoporometry. Titulaer, M.K., et al. [1996,eng] 50-6330
 Fracture toughness of ice and firm determined from the modified ring test. Fischer, M.P., et al. [1995,eng] 50-458
 Freezable water in portland cement paste. Gress, D.L., et al. [1995,eng] 50-2631
 Freezing point depression of water in concrete aggregates. Salcedo, M.A., et al. [1995,eng] 50-2634
 Frost durability of concrete containing viscosity-modifying admixtures. Khayat, K.H., [1995,eng] 50-4500
 Frost durability of high strength concrete: effect of internal cracking on ice formation. Jacobsen, S., et al. [1996,eng] 50-6097
 Geometry of heat and mass transfer in dry snow: a review of theory and experiment. Arons, E.M., et al. [1995,eng] 50-1401
 Indirect assessment of frost susceptibility. Hurt, K.G., [1977,eng] 50-2327
 Influence of the properties of porous media on the durability of frozen calcareous rocks. Bellanger, M., et al. [1996,eng] 50-4862
 Means of testing porous materials for frost resistance. Shapranov, V.M., [1992,rus] 50-1918
 Mechanical behavior of frozen earth materials under high pressure triaxial test conditions. Chamberlain, E.J., et al. [1970,eng] 50-3310
 Model of ductile behavior of columnar grained sea ice. Zhan, C., et al. [1996,eng] 50-5184
 Moisture movement and freezing pressures. Hoekstra, P., [1968,eng] 50-1976
 Moisture uptake and service life of concrete exposed to frost. Fagerlund, G., [1995,eng] 50-2635
 Natural convection for the melting of ice in porous media in a rectangular enclosure. Chang, W.J., et al. [1996,eng] 50-4533
 Phase transitions of ice confined in mesopores. Hansen, E.W., et al. [1996,eng] 50-4141
 Pore size effects on road subgrade frost susceptibility. Wood, L.E., et al. [1982,eng] 50-2028
 Pore structure in concrete at low temperatures. Matala, S.P., [1995,eng] 50-2675
 Pore-water pressures in freezing and thawing fine-grained soils. Eigenbrod, K.D., et al. [1996,eng] 50-4756
 Predicting brick frost resistance. II. Robinson, G.C., et al. [1995,eng] 50-1961
 Propagation of sound above a finite layer of snow. Nicolas, J., et al. [1985,eng] 50-3699
 Rapid freeze/thaw testing of concrete—pore structure changes by cracking and healing. Jacobsen, S., et al. [1995,eng] 50-2624
 Refractive index and density of vapor-deposited ice. Berland, B.S., et al. [1995,eng] 50-3096
 Relation between permeability and pore size distribution of compacted clayey silts. Garcia-Bengochea, I., [1978,eng] 50-2802
 Reservoir potential of an upwelling deposit. Prudhoe Bay. Kupecz, J.A., [1995,eng] 50-6551
 Sea ice data report. Kovacs, A., et al. [1970,eng] 50-3854
 Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savilev, B.A., [1963,rus] 50-3832
 Superplasticizer dosage effects on concrete frost resistance. Gagné, R., et al. [1996,eng] 50-5922
 Temperature effects on porous solid capillary functions. Grant, S.A., et al. [1996,eng] 50-5965
 Triaxial tests on crushed ice. Singh, S.K., et al. [1996,eng] 50-5468
 Use of geosynthetics to prevent waterfowl white phosphorus poisoning. Henry, K.S., et al. [1995,eng] 50-2865

Porous materials

- Analysis of the transient response of a thermal energy storage unit. Kuznetsov, A.V., [1996,eng] 50-6472
 Formation of poly(vinyl alcohol) cryogels through polymer solution freezing-thawing. Lozinski, V.I., et al. [1995,eng] 50-1177
 Freezing and melting of mercury in porous glass. Kumzerov, I.U.A., et al. [1995,eng] 50-1132
 Freezing of a salt solution in a packed bed. Chellaiah, S., et al. [1996,eng] 50-3909
 Freezing of an aqueous sodium chloride saturated packed bed. Choi, J., et al. [1993,eng] 50-5781
 Heat transfer in an ice-water saturated porous medium. Zhang, X.L., [1993,eng] 50-5782
 Influence of supercooling on salt-water saturated porous medium. Okada, M., et al. [1996,eng] 50-6762

Portable equipment

Precipitation (meteorology)

- Low temperature effects on saturated fibrous polymer composites. Starzhnetskaia, T.A., et al. [1996,eng] 50-4005
- Magnetic resonance imaging of frozen plant tissues. Gamble, G.R., [1994,eng] 50-3360
- Migration of moisture during the freezing of porous media. Gorelik, I.A.B., et al. [1989,rus] 50-2256
- Natural freeze-thaw dewatering of aerated lagoon sludges. Desjardins, M.A., et al. [1996,fr] 50-5808
- Numerical models of heat transfer during food freezing. Tocci, A.M., et al. [1995,eng] 50-596
- Phase transitions of ice confined in mesopores. Hansen, E.W., et al. [1996,eng] 50-4141
- Premelting of ice in porous silica glass. Ishizaki, T., et al. [1996,eng] 50-6759
- Radioactive heating of porous comet nuclei. Prialnik, D., et al. [1995,eng] 50-1464
- Saturated cemented porous material permeability during freezing. Kralj, B., et al. [1996,eng] 50-5024
- Spectroscopic analysis of frozen cement paste microstructure. Olson, R.A., et al. [1995,eng] 50-1406
- Thermal conductivity of model ice comet surfaces. Ibadinov, Kh.I., et al. [1987,eng] 50-1770
- Thermal investigation of crystal nucleation from a supercooled liquid. Mu, R., et al. [1996,eng] 50-4354
- Thermal stability of the freezing front in porous media such as soils. Bronfenbrener, L., et al. [1996,eng] 50-6479
- Portable equipment**
- Avalanche Balloon System (ABS): for or against? Sivardière, F., et al. [1995,fr] 50-2586
- Development of a portable ice-thickness measuring instrument. Glynn, D.P., et al. [1992,eng] 50-4908
- Experimental investigations on the effectiveness of avalanche balloons. Tschirky, F., et al. [1995,eng] 50-4686
- Manual for freezing soil heave stress testing unit. Martin, R.T. [1974,eng] 50-4265
- Microprocessor based ice-radar system for surface profiling. Jacobel, R.W., et al. [1992,eng] 50-59
- Skimmers help clear Alaskan spillage. [1989,eng] 50-5648
- Portable shelters**
- Portable shelter to protect bridges under construction from snow and cold. Kobayashi, Y., et al. [1992,jpn] 50-3134
- Ports**
- Countermeasure for ice floes overtopping over breakwater due to wave action. Sasajima, T., et al. [1996,jpn] 50-5883
- Countermeasures to prevent sea ice from intruding into Saroma Lagoon. Ishikawa, S., et al. [1996,jpn] 50-5890
- Current policy of the Russian Federation regarding development and management of the Northern Sea Route System. Arikainen, A.I., et al. [1996,eng] 50-4450
- International Petropavlovsk-Kamchatskiy Port. Semenikhin, I.A.N., et al. [1996,eng] 50-4489
- Legal conditions for navigating the Northern Sea Route. Orebech, P., [1996,eng] 50-4452
- Marine hydro-engineering and the mechanization of loading operations in ports. Iakovlev, P.I., ed. [1992,rus] 50-756
- New, low-cost, ice- and wave-resistant port facility at Nome, Alaska. Swigart, W.S., et al. [1991,eng] 50-1732
- Northern Sea Route reconnaissance study: a summary of ice-breaking technology. Sodhi, D.S., [1995,eng] 50-395
- Northern Sea Route: its development and evolving state of operations in the 1990s. Mulherin, N.D., [1996,eng] 50-4960
- Research concerning ice conditions in fairways—Swedish activities. Lindmark, R., et al. [1984,eng] 50-3165
- Technological problems of fisheries civil engineering in frozen seas. Nagano, A., et al. [1996,jpn] 50-5891
- Technological-ecological problems in navigation. Stepanov, A.L., [1991,rus] 50-1318
- Using sea ice as ice platforms and ice roads in fishery harbors. Okubo, Y., et al. [1996,jpn] 50-5889
- Power line icing**
- AC breakdown process of snow sample simulating capped snow on insulator strings. Higashiyama, Y., et al. [1996,eng] 50-5383
- Analyses of conductor ice accretion and meteorological characteristics. Luo, N., et al. [1996,eng] 50-5376
- Anemometer for transmission line maintenance in heavy icing areas. Ozawa, A., et al. [1996,eng] 50-5395
- Artificial ice tests for long insulator strings. Wu, D., et al. [1996,eng] 50-5341
- Artificial rime-covering and discharge test of long insulator strings. Su, F.H., et al. [1996,eng] 50-5390
- Atmospheric icing on transmission line towers in Iran. Arabani, M.P., et al. [1996,eng] 50-5364
- Automated wind tunnel measurements. Stumpf, P., et al. [1994,eng] 50-3689
- Cable galloping model for thin ice accretions. McComber, P., et al. [1996,eng] 50-5381
- Cable twisting due to atmospheric icing. McComber, P., et al. [1995,eng] 50-205
- Choosing the route of overhead lines in the Czech Republic. Zálešák, Z., et al. [1996,eng] 50-5398
- Climate of freezing rain over the province of Québec in Canada: a preliminary analysis. Laflamme, J.N., et al. [1996,eng] 50-5333
- Comparison of glaze and in-cloud icing events on a test line. Druetz, J., et al. [1995,eng] 50-2951
- Computer model of glaze accretion on wires. Draganović, G., et al. [1996,eng] 50-5160
- Coupled vertical and horizontal galloping—discussion. Havard, D.G., et al. [1993,eng] 50-3253
- DC characteristics of local arc on ice surfaces. Farzaneh, M., et al. [1996,eng] 50-5344
- Dynamic response of ice shedding on electrical transmission lines. Fekri, M.R., et al. [1996,eng] 50-5338
- Effect of ice and atmospheric pressure on insulator flashover. Shu, L.C., et al. [1996,eng] 50-5388
- Effects of high voltage on the structure of ice. Farzaneh, M., et al. [1996,eng] 50-5387
- Effects of wind, snow and ice on fiber optic overhead lines. Wareing, J.B., [1996,eng] 50-5349
- Experience and analysis of galloping phenomenon in overhead transmission lines in Iran. Javaherianesh, M., [1996,eng] 50-5404
- Factors influencing flashover characteristics along ice surfaces. Chen, X., et al. [1996,eng] 50-5343
- Failures of overhead lines due to ice and wet snow in Serbia. Vučković, Z., et al. [1996,eng] 50-5365
- Fifteen years field trials of galloping controls for overhead power lines. Havard, D.G., [1996,eng] 50-5382
- Finite element modelling of transmission line galloping. Desai, Y.M., et al. [1995,eng] 50-494
- Flashover between power lines caused by ice shedding. Savadjiev, K., et al. [1996,eng] 50-5386
- Flashover on ice surfaces. Farzaneh, M., et al. [1996,eng] 50-5389
- Galloping events and associated meteorological condition experienced in Hokuriku area. Kasima, H., et al. [1996,eng] 50-5380
- Galloping of iced electrical transmission lines. Popplewell, N., et al. [1996,eng] 50-5377
- Galloping on overhead transmission test lines with artificial snow. Ozawa, A., et al. [1996,eng] 50-5379
- Ice accretion weight on overhead transmission line cables. Savadjiev, K., et al. [1996,eng] 50-5351
- Ice and snow damage to high voltage overhead lines in Romania. Goia, L.M., et al. [1996,eng] 50-5366
- Ice shedding effects on an overhead transmission line. Jamaledine, A., et al. [1996,eng] 50-5337
- Ice shedding from cables. Druetz, J., et al. [1995,eng] 50-1144
- Ice storm data base and ice severity map. Shan, L., et al. [1996,eng] 50-5330
- Ice storm management on an electrical utility system. Hall, J.W., [1996,eng] 50-5367
- Icing rate meter estimation of transmission line icing. McComber, P., et al. [1996,eng] 50-4031
- Icing rate meter, an instrument to evaluate transmission line icing. McComber, P., et al. [1996,eng] 50-5357
- Icing-prone grounded transmission wires in Slovenia. Jakše, J., et al. [1996,eng] 50-5405
- IEC TC11 WG11—report on meteorological data for assessing climatic loads. Ervik, M., et al. [1996,eng] 50-5347
- Impact of potential TV tower icing on a nearby proposed expressway. Courtney, F.E., [1993,eng] 50-6664
- Instability trends of inertially coupled galloping, part 1: initiation. Yu, P., et al. [1995,eng] 50-1053
- Instability trends of inertially coupled galloping, part 2: periodic variations. Yu, P., et al. [1995,eng] 50-1054
- Insulators in icing conditions: selection and measures for reliability increasing. Sklenička, V., et al. [1996,eng] 50-5342
- Leakage resistance of iced insulators and chemical data of ice and snow. Sugawara, N., et al. [1996,eng] 50-5384
- Measurements of ice and snow loads on the Tyee Lake 138 kV line. Peabody, A.B., [1996,eng] 50-5346
- Mechanical behavior of ice loaded optical ground wires. Savadjiev, K., et al. [1995,eng] 50-2953
- Modeling power line icing in freezing precipitation. Makkonen, L., [1996,eng] 50-5362
- National climatic reference base for exceptional wet snow and rime ice episodes. Raison, T., et al. [1996,eng] 50-5331
- New transducer for measurement of ice loads for utilities. Seppa, T.O., [1996,eng] 50-5397
- Numerical study of iced conductors aerodynamics. Ilincă, A., et al. [1996,eng] 50-5336
- Perturbation-based finite element analyses of transmission line galloping. Desai, Y.M., et al. [1996,eng] 50-4291
- Polish design standards for transmission line icing. Dembicki, E., et al. [1996,eng] 50-5396
- Procedure for estimating ice load on overhead wires based on short term observations. Sakamoto, Y., et al. [1996,eng] 50-5363
- Proceedings. IWALS '96. International Workshop on Atmospheric Icing of Structures, 7th, Chicoutimi, Quebec, June 3-7, 1996. [1996,eng] 50-5329
- Romanian experience in meteorological zoning for designing of overhead lines (OLs). Goia, L.M., [1996,eng] 50-5332
- Simulation of wet-snow accretion by axial growth on a transmission line conductor. Poots, G., et al. [1995,eng] 50-2349
- Snow accretion and galloping on overhead transmission lines. Ozawa, A., et al. [1996,eng] 50-5371
- Some effects of conductor twisting on galloping. Richardson, A.S., Jr., [1980,eng] 50-3698
- State-of-the-art on power line de-icing. Laforte, J.L., et al. [1996,eng] 50-5369
- Structure of ice grown on high voltage conductors. Farzaneh, M., et al. [1995,eng] 50-208
- Study and analysis of the factors having influence on ice coating of electric wires. Wang, S.L., [1996,eng] 50-5394
- Study of minimum flashover voltage of iced-covered suspension insulators. Shu, L.C., et al. [1996,eng] 50-5345
- Surface conductivity and flashover voltages of ice covered insulators. Farzaneh, M., et al. [1995,eng] 50-207
- Telemonitoring of climatic loads on Hydro-Québec 735 kV lines. Hardy, C., et al. [1996,eng] 50-5358
- Transmission line ice measurements with tension monitoring systems. Seppa, T.O., [1996,eng] 50-5356
- Transmission line icing mechanism and study of new de-icing techniques. Jiang, X.L., et al. [1996,eng] 50-5368
- Validation of ice accretion models for freezing precipitation using field data. Haldar, A., et al. [1996,eng] 50-5361
- Video monitoring of atmospheric icing. Wareing, J.B., et al. [1995,eng] 50-204
- Warning system for snow on power lines using neural networks. Ohta, H., et al. [1996,eng] 50-5355
- Wet snow icing combined with strong wind—field inspections and field measurements. Eliasson, A.J., et al. [1996,eng] 50-5352
- Wind tunnel tests of ice-free anemometer. Motyka, J., et al. [1985,eng] 50-484
- Power line supports**
- Anemometer for transmission line maintenance in heavy icing areas. Ozawa, A., et al. [1996,eng] 50-5395
- Atmospheric icing on transmission line towers in Iran. Arabani, M.P., et al. [1996,eng] 50-5364
- Polish design standards for transmission line icing. Dembicki, E., et al. [1996,eng] 50-5396
- Power lines**
- Avalanche damage at Bridal Veil, Utah. Griffith, R., [1996,eng] 50-4760
- Deicing device for cable. LaForte, J.L., et al. [1995,eng] 50-3459
- Device for applying an insulation cover on overhead power lines. Gonchar, M.I., et al. [1929,rus] 50-1919
- Icenet: hydro power for Europe. De Jong, D.J., [1995,eng] 50-2969
- Lake Erie ice scour study. Lake, K., [1991,eng] 50-491
- See [also]: Transmission lines
- Power supply**
- See [also]: Electric power; Nuclear power; Wind power generation
- Precast concretes**
- Freezing and thawing resistance of concrete pavers saturated in de-icing chemicals. Ghafoori, N., et al. [1995,eng] 50-2638
- Production of high-strength concrete for the Hibernia offshore concrete platform. Hoff, G.C., et al. [1994,eng] 50-2764
- Sulphur concrete for use in cold regions. Vroom, A.H., [1984,eng] 50-3159
- Underground fuel tanks for Alaska. Freas, G.C., [1991,eng] 50-4226
- Precipitation (meteorology)**
- Acid aerosols in rime on Kyushu, Japan. Nagafuchi, O., et al. [1995,eng] 50-4957
- Acid pollutants in air and precipitation/deposition at the Sudeten Mountains, Poland. Kmiec, G., et al. [1995,eng] 50-4954
- Acid precipitation in Hokkaido (Part 2). Tani, A., et al. [1995,jpn] 50-6739
- Aircraft observations of ice formation over the Japan Sea. Asuma, Y., et al. [1995,eng] 50-6716
- Alberta Hail Project Data Archive available on the World Wide Web. Kochubajda, B., et al. [1996,eng] 50-5201
- Analysis of long term sulfate and nitrate budgets in a Rocky Mountain basin. Baron, J.S., et al. [1995,eng] 50-2417
- Antarctic atmospheric moisture values obtained from microwave radiometers. Wada, M., et al. [1992,eng] 50-3568
- Application of a surface hydrology scheme to a watershed. Leung, L.R., et al. [1996,eng] 50-6056
- Arctic oceanography: the path of North Atlantic Deep Water. [1994,eng] 50-976
- ARNO rainfall-runoff model. Todini, E., [1996,eng] 50-3729
- Asian summer monsoon sensitivity to Eurasian snow cover. Douville, H., et al. [1996,eng] 50-5863
- Atmospheric contribution to hydrologic variations in the Arctic. Walsh, J.E., et al. [1994,eng] 50-1034
- Atmospheric deposition and pollutant exposure of eastern U.S. forests. Mohren, V.A., [1992,eng] 50-4052
- Atmospheric water vapour budget over Greenland. Calanca, P., [1994,eng] 50-4944
- Attenuation of microwaves by spherical hail. Battan, L.J., et al. [1986,eng] 50-4639
- Backscattering through the melting layer of precipitation. Russchenberg, H.W.J., et al. [1996,eng] 50-2699
- Biogeochemistry of heavy metals in the Arctic. Dobrovol'skiĭ, V.V., [1995,rus] 50-3971
- Bismuth in recent snow from central Greenland: preliminary results. Candelone, J.P., et al. [1995,eng] 50-779
- Bistatic scattering of radiowaves by a melting layer of precipitation. Zhang, W., et al. [1996,eng] 50-6335
- Channel erosion during flooding of alpine streams. Becht, M., [1996,ger] 50-5251
- Characteristics of Arctic Ocean climate based on COADS data, 1980-1993. Clark, M.P., et al. [1996,eng] 50-6545
- Characteristics of runoff formation at the Kirgizskiy Alatau. Tien Shan. Aizen, V.B., et al. [1995,eng] 50-2435
- Characteristics of the development of thermo-erosional gullies on mid-alassy slopes. Varlamov, S.P., [1996,rus] 50-6405
- Characteristics of the meteorological regime of glaciers in Upper Svanetia during ablation. Voloshina, A.P., et al. [1972,rus] 50-525
- Characteristics of winters in a high mountain region climate in a period of new climatic norms. Květk, Š., et al. [1991,rus] 50-3521

Precipitation (meteorology)

- Classification of hailstorm systems in north China and the characteristics of hailstorm cells. Yang, P.C., et al. [1983.eng] 50-4095
- Climate of Inner Mongolia. Wang, W.H., ed. [1990.chi] 50-2172
- Climate of the Qinghai-Xizang Plateau. Dai, J.X., ed. [1990.chi] 50-2173
- Climate of Xinjiang. Li, J.F., ed. [1991.chi] 50-2174
- Climate, snow cover, glaciers, and runoff in the Tien Shan, central Asia. Aizen, V.B., et al. [1995.eng] 50-2538
- Climatic variation of Xinjiang in recent 3000 years. Li, J.F. [1985.chi] 50-1996
- Clouds in the Himalaya Mountains, March through May. Qian, Z.J., [1982.chi] 50-6611
- Cold climate hydrometeorology. Upadhyay, D.S., [1995.eng] 50-5508
- Comment on paper by Papatsoris et al. Hill, S.C., et al. [1996.eng] 50-6336
- Comments on "The impact of the ice phase and radiation on a midlatitude squall system". Braun, S.A., et al. [1996.eng] 50-5476
- Comments on paper by Dey et al. Ropelewski, C.F., et al. [1984.eng] 50-4916
- Comments on the Climax I and II experiments including replies to Rangno and Hobbs. Mielke, P.W., Jr., et al. [1995.eng] 50-640
- Competition of precipitation particles in a model with parameterized cloud microphysics. Wacker, U., [1995.eng] 50-413
- Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996.rus] 50-6382
- Consistent treatment of the evaporation of rain and snow for use in large-scale models. Gregory, D., [1995.eng] 50-353
- Correlation between atmospheric pressure anomalies and snowpack accumulation. McCabe, G.J., Jr., et al. [1995.eng] 50-1551
- Crop-hail damage in the Midwest corn belt. Hillaker, H.J., Jr., et al. [1985.eng] 50-4592
- Cyclic fluctuations and predictability of monthly precipitation totals. Orlov, N.F., et al. [1992.rus] 50-1276
- Decline of fauna in small streams in the Swedish mountain range. Olofsson, E., et al. [1995.eng] 50-4078
- Deposit of atmospheric biphenyls in the Canadian Arctic. Gregor, D., et al. [1996.eng] 50-6521
- Deposition around a coal-fired power station during a winter-time precipitation event. Jylhä, K., [1995.eng] 50-4953
- Detection and prediction of hail with Meteosat data. Messmer, B., et al. [1995.ger] 50-2539
- Detection of weakly precipitating winter clouds by a NOAA 404-MHz wind profiler. Orr, B.W., et al. [1996.eng] 50-5164
- Determining past atmospheric HCl mixing ratios from ice core analyses. Domine, F., et al. [1995.eng] 50-1104
- Development of a climate generator for Finland. Il. Posch, M., [1994.eng] 50-3227
- Differences in the duration of snow cover on Scottish ski-slopes between mild and cold winters. Harrison, S.J., [1993.eng] 50-3014
- Differentiation of temperature and water vapor pressure during summer in NW Spitsbergen. Wójcik, G., et al. [1989.pol] 50-2909
- Distribution of $\delta^{18}\text{O}$ in precipitation on the Qinghai-Xizang Plateau. Zhang, X.P., et al. [1995.eng] 50-4512
- Distribution of deuterium excess in surface snow of the antarctic ice sheet. Ren, J.W., et al. [1995.eng] 50-978
- Distribution of water in hailstones. Chýlek, P., et al. [1984.eng] 50-4495
- Doppler radar analysis of a severe spring snowstorm. Shields, M.T., et al. [1993.eng] 50-5250
- Dual multiparameter radar observations of intense convective storms. Brinpi, V.N., et al. [1996.eng] 50-4597
- Dual polarization radar observations of thunderclouds in winter season. Sono, Y., et al. [1995.eng] 50-4258
- Dual wavelength radar observations of precipitation clouds. Iwanami, K., [1995.jpn] 50-607
- Dynamic response of high arctic glaciers to global warming and their contribution to sea-level rise. Lam, J.K.W., et al. [1995.eng] 50-6618
- Dynamics of thermokarst relief on the Yukechinsk polygon. Bosikov, N.P., [1996.rus] 50-6400
- Effect of breakup of melting snowflakes on the resulting size distribution of raindrops. Fujiyoshi, Y., et al. [1996.eng] 50-6724
- Effects of anti-icing fluid on wing lift during supercooled precipitation. Bouchard, G., et al. [1995.eng] 50-3255
- Eight-year time series radiometric measurement of snow and sea ice covers. Ferraro, R.R., et al. [1996.eng] 50-5769
- Elastic response of the earth to interannual variations in antarctic precipitation. Conrad, C.P., et al. [1995.eng] 50-3089
- Electrification of thunderstorm cells during cloud ice formation. Ramachandran, R., et al. [1996.eng] 50-3020
- Elementary circulation mechanisms and external mass and energy exchange on Svalbard glaciers. Markin, V.A., [1972.rus] 50-524
- Empirical study on Nimbus-7 snow mass and Indian summer monsoon rainfall. Kripalani, R.H., et al. [1996.eng] 50-6226
- Encyclopedia of climate and weather. [1996.eng] 50-4973
- Estimating snowmelt runoff erosion indices for Canada. Hayhoe, H.N., et al. [1995.eng] 50-967

- Estimation of ice hydrometeor types and shapes from radar polarization measurements. Matrosov, S.Y., et al. [1995.eng] 50-3609
- Estimation of the effect of operational seeding on rain amounts in Israel. Nirel, R., et al. [1995.eng] 50-1218
- Evaluation of the Bridger Range winter cloud seeding experiment using control gages. Super, A.B., et al. [1983.eng] 50-4637
- Evaluation of the changes in regional wintertime deposition in Finland during 1976-1993. Sovieri, J., et al. [1995.eng] 50-4956
- Evidence of paleoclimatic snow melt in lacustrine mountain deposits. Norris, R.D., et al. [1996.eng] 50-5082
- Evolution of snow cover and avalanche activity in the Italian Alps during winter 1993-94. Lizzero, L., et al. [1994.ita] 50-1562
- Exceptional storm and its effects in the Canadian High Arctic. Cogley, J.G., et al. [1976.eng] 50-3679
- Experimental closure of the heat and mass transfer theory of spheroidal hailstones. Greenan, B.J.W., et al. [1995.eng] 50-2117
- Explicit cloud physics parameterization for operational numerical weather prediction. Schultz, P., [1995.eng] 50-1529
- Factors controlling suspended sediment transport in Himalayan glacier meltwaters. Hasnain, S.I., [1996.eng] 50-5688
- Fargo snowstorm of 6-8 January 1989. Weisman, R.A., [1996.eng] 50-6061
- Finger-shaped echoes of hailstorm and the possible mechanism of their formation. Ma, Z.H., et al. [1983.eng] 50-4096
- Forecast of rain erosion of tundra soils on the Yamal Peninsula. Grigor'ev, V.I.A., et al. [1996.eng] 50-5448
- Forest fire records inferred from Greenland ice core chemistry. Legrand, M., et al. [1996.eng] 50-3447
- Formation of the cryo-ecological segment in Central Yakutia. Fedorov, A.N., [1996.rus] 50-6843
- Genotoxicity of snow in the Montreal metropolitan area. White, P.A., et al. [1995.eng] 50-1567
- Glaciers and lakes in the Tianshan Mountains as indicators of climatic change. Hu, R.J., et al. [1994.eng] 50-3998
- Ground and aircraft weather observations and in-flight aircraft icing. Bernstein, B.C., et al. [1996.eng] 50-5373
- Hail. Knight, N.C., [1996.eng] 50-4987
- Hailstorm in Hong Kong. Lee, B.Y., et al. [1996.eng] 50-3962
- Hailstorms in Switzerland: left movers, right movers, and false hooks. Houze, R.A., Jr., et al. [1993.eng] 50-1444
- Hailstorms. Bluestein, H.B., [1996.eng] 50-4988
- Heat and moisture supply of natural biogeocoenoses in the Northern, Subpolar and Polar Urals. Belonenko, G.V., et al. [1994.rus] 50-269
- Heat budget of a midlatitude squall line and implications for potential vorticity production. Braun, S.A., et al. [1996.eng] 50-5475
- Himalayan summer snow cover and withdrawal of the Indian summer monsoon. Dey, B., et al. [1985.eng] 50-4970
- HIPLEX-1: experimental design and response variables. Smith, P.L., et al. [1984.eng] 50-4918
- HIPLEX-1: statistical evaluation. Mielke, P.W., Jr., et al. [1984.eng] 50-4919
- Historical record of blizzards/major snow events in the British Isles, 1880-1989. Wild, R., et al. [1996.eng] 50-3961
- Horizontal distribution of snowfall inland on Hokkaido. Lee, C.W., et al. [1972.jpn] 50-5791
- How AgI aerosol dispersion may effect cloud seeding detection. Warburton, J.A., et al. [1995.eng] 50-347
- Hydrochemical study of snow meltwater and snow cover. Suzuki, K., [1995.eng] 50-2404
- Hydrological bibliography of Switzerland for 1992. Sevruc, B., et al. [1992.eng] 50-5028
- Hydrological effects of hypothetical climate change in the East River basin, Colorado, USA. McCabe, G.J., Jr., et al. [1995.eng] 50-740
- Hydrometeorological aspects of flood hazards in Canada. Lawford, R.G., et al. [1995.eng] 50-1853
- Ice cloud microphysics in a general circulation model, pt.1. Fowler, L.D., et al. [1996.eng] 50-5015
- Ice cloud microphysics in a general circulation model, pt.3. Fowler, L.D., et al. [1996.eng] 50-5017
- Icefield Ranges climatology program: 1965 data presentation and programming analysis. Marcus, M.G., et al. [1966.eng] 50-3975
- Importance of the correction of precipitation measurements on the Tibetan Plateau. Ueno, K., et al. [1996.eng] 50-5775
- Incorporating airborne data into the spatial model used to estimate snow water equivalent. Carroll, S.S., et al. [1993.eng] 50-5146
- Influence of the growth mechanisms of snow particles on their chemical composition. Takahashi, T., et al. [1996.eng] 50-5610
- Initial snow chemistry survey of the Mogollon Rim in Arizona. Barbanis, B., et al. [1996.eng] 50-6711
- Instructions for meteorological stations and posts, Vol.3, pt.1. Meteorological observations at stations. USSR State Committee on Hydrometeorology and Environmental Control. [1985.eng] 50-5074
- Iron(II) in rainwater, snow, and surface seawater from a coastal environment. Zhuang, G.S., et al. [1995.eng] 50-979
- Isotope analysis of variable subarctic plant nutrient access. Michelsen, A., et al. [1996.eng] 50-5772
- Isotopic analysis of snow on Asian glacier surfaces. Aizen, V.B., et al. [1996.eng] 50-5256

Precipitation (meteorology)

- Large eddy simulation of the turbulent flow in a marine convective boundary layer with snow. Rao, G.S., et al. [1996.eng] 50-3683
- Lidar detection of the transition from snowflakes to rain. Sassen, K., et al. [1996.eng] 50-5282
- Long-term snow variations at Nagaoka, Japan. Nakamura, T., et al. [1996.eng] 50-4898
- Measuring the density of snow particles and snowfall rate. Muramoto, K.I., et al. [1995.eng] 50-4573
- Mesoscale and microscale characteristics of a CASP II severe ice pellet storm. Hanesiak, J.M., [1994.eng] 50-4170
- Mesoscale and microscale structure of a severe ice pellet storm. Hanesiak, J.M., et al. [1995.eng] 50-1526
- Mesoscale precipitation structure in winter storms. Ramamurthy, M.K., et al. [1991.eng] 50-4417
- Mesoscale structures along wind-parallel bands in lake-effect snows. Kristovich, D.A.R., [1993.eng] 50-5249
- Meteorological events on the Italian Alps during the winter of 1993-94. Costantini, N., et al. [1994.ita] 50-1561
- Microwave retrieval algorithm for remote sensing of precipitation. Weng, F., et al. [1992.eng] 50-3566
- Mixed-phase cloud scheme based on a single prognostic equation. Tremblay, A., et al. [1996.eng] 50-6665
- Model to retrieve precipitation rate profiles from airborne radar and radiometer measurements. Weinman, J.A., et al. [1992.eng] 50-3571
- Modeling and observational study of East Antarctic surface mass balance. Connolley, W.M., et al. [1996.eng] 50-3017
- New look at the melting layer. Drummond, F.J., et al. [1996.eng] 50-4145
- Numerical analysis of atmospheric water cycle over Antarctica. Bromwich, D.H., et al. [1995.eng] 50-2020
- Numerical simulation of land-breeze-induced snowbands along the western shore of Lake Michigan. Ballentine, R.J., [1982.eng] 50-3648
- Nutrient and persistent pollutant deposition on the Bothnian Bay ice and snow fields. Rahm, L., et al. [1995.eng] 50-1650
- Observation of snowfall and airflow over a low mountain barrier. Nakai, S., et al. [1995.eng] 50-341
- Observations in a typical glacial basin of the Bol'shaya Khadada River in 1970-71. Gus'kov, A.S., [1972.rus] 50-529
- On a sampling error in hailpad measurements. Wirth, E., et al. [1983.eng] 50-4638
- On the global variation of precipitating layer clouds. Ryan, B.F., [1996.eng] 50-3293
- On the interannual variability of precipitation and runoff in the Mackenzie drainage basin. Björnsson, H., et al. [1995.eng] 50-2737
- On the scattered radiation intensity fluctuations for a focused laser beam in snowfall. Vostretsov, N.A., et al. [1994.eng] 50-1285
- On using historical comparisons in evaluating cloud seeding operations. Gabriel, K.R., et al. [1983.eng] 50-4492
- Origin of present-day antarctic precipitation from surface snow deuterium excess data. Clais, P., et al. [1995.eng] 50-636
- Palaeoecology of a cushion bog, southern Tierra del Fuego. Heusser, C.J., [1995.eng] 50-2726
- Paleoclimatic interpretation of topographic variations in Tibetan lake shorelines. Avouac, J.P., et al. [1996.eng] 50-5094
- Paleoclimatic models of Chinese loess and paleosol sequences. Thompson, R., et al. [1995.eng] 50-2542
- Physical interpretation of results from the HIPLEX-1 experiment. Cooper, W.A., et al. [1984.eng] 50-4920
- Polarimetric radar at attenuated wavelengths as a hydrological sensor. Sauvageot, H., [1996.eng] 50-5166
- Possibility of forecasting monthly precipitation totals on the Kola Peninsula. Orlov, N.F., [1992.rus] 50-1277
- Possible high ice particle production during graupel-graupel collisions. Takahashi, T., et al. [1995.eng] 50-3005
- Power law determination of ice crystal particle velocities. Mitchell, D.L., [1996.eng] 50-6558
- Precipitation and river runoff in an ice-ocean model of the Arctic. Weatherly, J.W., [1994.eng] 50-675
- Precipitation hydrometeor characterization by a CW Doppler radar. Duvernoy, J., et al. [1996.eng] 50-5165
- Precipitation parameters in natural obscuration. Hogan, A.W., [1990.eng] 50-734
- Precipitation sensitivity to cloud microphysical parameters. Liu, Y.Q., et al. [1996.eng] 50-4353
- Precipitation, glacier flow and reduction of glacier areas in relation to climate forming factors. Baidal, M.Kh., [1973.rus] 50-431
- Precipitation, snow conditions and air temperature in Austria in the period 1981-1990. [1994.ger] 50-4266
- Precipitations and atmospheric circulation over western Greater Caucasus. But, I.V., et al. [1973.rus] 50-423
- Precursor signals associated with the interannual variability of the Asian summer monsoon. Yang, S., et al. [1996.eng] 50-5530
- Preliminary considerations for runoff modelling in GCMs. Versegny, D., [1994.eng] 50-5701
- Radar image tracking and its use in a short-term snowfall prediction system. Neill, P.P., et al. [1993.eng] 50-5248
- Radar observation of cloud electrification during thunderstorms. Jameson, A.R., et al. [1996.eng] 50-3965
- Radar observation of ice crystal orientation in thunderstorms. Caylor, J.J., et al. [1996.eng] 50-5684
- Radio wave scattering from melting snow particles. Zhang, W., et al. [1996.eng] 50-6622
- Rain production in convective clouds, pt.2. Reislin, T., et al. [1996.eng] 50-6325

Precipitation gages

Profiles

- Rapid glaciation of slightly supercooled cumulus clouds. Mason, B.J., [1996,eng] 50-5010
- Recent climate changes in southern Patagonia. Ibarzabal y Donangelo, T., et al., [1996,eng] 50-5513
- Reconstruction of 1000-year winter precipitation from tree rings in New Mexico. D'Arrigo, R.D., et al., [1991,eng] 50-5032
- Record winter snowfall of 1994-95 in U.S. West. Graf, D., et al., [1996,eng] 50-4155
- Reflection of weather conditions in the chemistry of horizontal fog/cloud precipitation. Skvarenina, J., et al., [1991,eng] 50-3522
- Regionalization of territories according to degree of risk to cryogenic processes. Kuznetsova, I.L., et al., [1996,rus] 50-6396
- Relations between atmospheric circulation and glacier mass balance. McCabe, G.J., Jr., et al., [1995,eng] 50-3323
- Relations between weather systems affecting Tibetan Plateau and oxygen isotope in precipitation. Zhang, X.P., et al., [1995,chi] 50-5619
- Relationship between atmospheric composition and snow composition for HCl and HNO₃. Dominé, F., et al., [1995,eng] 50-2392
- Relationship of tropospheric dry layers to freezing precipitation type. Smith, G., [1995,eng] 50-6684
- Remote sensing in hydrology and water management. Haefer, H., et al., [1992,eng] 50-621
- Response functions of tree-ring chronologies in western Tianshan Mountains. Yuan, Y.J., et al., [1995,chi] 50-5626
- Retrieval of cloud liquid water and precipitation from polarized microwave simulations. Bauer, P., et al., [1992,eng] 50-229
- Rocket flight cloud seeding during hail suppression experiments. Lacaux, J.P., et al., [1995,eng] 50-4971
- Role of electrified ice meltwater in thunderstorms. Kamra, A.K., et al., [1984,eng] 50-4923
- Role of ice in the global water cycle. Lawford, R.G., [1993,eng] 50-5079
- Runoff composition in a bedrock catchment watershed. Clow, D.W., et al., [1995,eng] 50-2415
- Runoff index values for frozen soil areas of the Pacific Northwest. McCool, D.K., et al., [1995,eng] 50-3525
- Satellite measurements of cloud microphysical properties. Poix, C., et al., [1996,eng] 50-4571
- Scavenging of gases during growth of ice crystals. Santachiara, G., et al., [1995,eng] 50-2470
- Seeding implications of ice crystal growth in the turbulent boundary layer. Levy, G., et al., [1984,eng] 50-4496
- Sensitivity of squall-line rear inflow to ice microphysics and environmental humidity. Yang, M.J., et al., [1995,eng] 50-1527
- Simple model for freezing rain ice loads. Jones, K.F., [1996,eng] 50-5399
- Simulation of rain production in convective clouds, pt.1. Reisin, T., et al., [1996,eng] 50-4369
- Snow and water chemistry of a headwater alpine basin, Urumqi River, Tian Shan, China. Liu, F.J., et al., [1995,eng] 50-2413
- Snow cover contribution on a Wyoming glacier. Elder, K., [1995,eng] 50-2438
- Snow crystal imaging using scanning electron microscopy: I. Precipitated snow. Rango, A., et al., [1996,eng] 50-4566
- Snow distribution in Japan. Shitara, H., [1988,jpn] 50-2045
- Snow identification from radar wind profiler spectra. Ralph, F.M., et al., [1996,eng] 50-5163
- Snowfall distribution on the seaside of Hokkaido, Japan. Tachibana, Y., [1995,eng] 50-342
- Snowfall generated by surface topographic effects upon wind direction. Wesley, D.A., et al., [1995,eng] 50-1079
- Snowpack evidence of air pollution in Lapland and the Kola Peninsula. Lindroos, A.J., et al., [1995,eng] 50-4955
- Snowpack water equivalent statistic derived from an observer network. Wilks, D.S., et al., [1996,eng] 50-5199
- Snowstorms. Cohen, J., [1996,eng] 50-4999
- Soil isotopic evidence of Quaternary atmospheric circulation variations in North America. Amundson, R., et al., [1996,eng] 50-2722
- Some characteristics of hail cloud formation processes in Xiyang area. Wang, A.S., et al., [1983,eng] 50-4098
- Some research on the development of hail cloud. Wang, A.S., et al., [1983,eng] 50-4097
- Some results of integrated studies of the Alaarcha River basin. Tsytsenko, K.V., [1973,rus] 50-428
- Spaceborne radiometric determination of cloud structure. Pierdicca, N., et al., [1996,eng] 50-5683
- Spatial and temporal distribution of storm precipitation in southwestern British Columbia. Loukas, A., et al., [1996,eng] 50-2603
- Special problems of the precipitation conditions evaluation in mountainous areas of Slovakia. Lapin, M., et al., [1991,eng] 50-3520
- Stable isotopes as hydrologic tracers in South Cascade Glacier. Vaughn, B.H., [1994,eng] 50-5546
- Statistical analysis of precipitation and air temperature in the southern Patagonia icefield. Peña, H., et al., [1992,eng] 50-381
- Streamwater quality variations in a Colorado alpine environment. Caine, N., [1995,eng] 50-4189
- Structure and evolution of winter cyclones in the central United States and their effects on the distribution of precipitation. Part II: arctic fronts. Wang, P.Y., et al., [1995,eng] 50-1565
- Sublimation of dry ice pellets used for cloud seeding. Kochtubajda, B., et al., [1985,eng] 50-4593
- Supercell simulations with simple ice parameterization. Tartaglione, N., et al., [1996,eng] 50-3709
- Synoptic approach to forecasting lake-effect snowfall. Ellis, A.W., et al., [1996,eng] 50-6062
- Technique for high time resolution snowpack dating. Braaten, D.A., [1995,eng] 50-776
- Temporal and spatial variations in hail in the upper Great Plains and Midwest. Changnon, S.A., Jr., [1984,eng] 50-4497
- Test program for aircraft ground anti-icing fluids. Myers, B.B., [1992,eng] 50-3797
- Tests for persistent effects of cloud seeding in a recent Australian experiment. Bigg, E.K., [1995,eng] 50-1249
- Thunderstorm electrification. Saunders, C.P.R., [1995,eng] 50-4075
- Topographical influence on Himalayan snow cover distribution. Singh, P., et al., [1995,eng] 50-4012
- Two-year record of eolian sedimentation in the Wind River Range, Wyoming, U.S.A. Dahms, D.E., et al., [1996,eng] 50-5496
- Two-year simulation of the Great Lakes region with a coupled modeling system. Bates, G.T., et al., [1995,eng] 50-1566
- Upland watershed hydrochemical response to acidification during snowmelt. Allan, C., [1995,eng] 50-5210
- Urban hailstorms: a view from Alberta. Charlton, R.B., et al., [1995,eng] 50-3960
- Use of AVHRR-derived cloudiness and precipitation in weather forecasting. Karlsson, K.-G., [1992,eng] 50-228
- Variability in atmospheric circulation and moisture flux over the Arctic. Serreze, M.C., et al., [1995,eng] 50-5228
- Warning device for precipitation. Romanov, E.V., et al., [1992,rus] 50-1906
- Water balance of the Alps. Chernogaeva, G.M., [1973,rus] 50-436
- Weather in the Himalaya Mountains, March through May. Qian, Z.J., [1982,chi] 50-6609
- Weathering of aeolian dusts in alpine snows. Delmas, V., et al., [1996,eng] 50-4588
- Winter storms over Canada. Stewart, R.E., et al., [1995,eng] 50-1852
- See [also]:* Hail; Rain; Snowfall
- Precipitation gages**
- Accuracy of Tretyakov precipitation gauge: result of WMO intercomparison. Yang, D.Q., et al., [1995,eng] 50-3115
- Accuracy of Tretyakov precipitation gauge: result of WMO intercomparison. Yang, D.Q., et al., [1995,eng] 50-6044
- Evaluation of the Bridger Range winter cloud seeding experiment using control gauges. Super, A.B., et al., [1983,eng] 50-4637
- Ground-based radar for measuring snowfall rate. Houck, R.E., et al., [1995,eng] 50-3109
- New method for measuring snow crystals (snow crystal measuring system). Kikuchi, K., et al., [1982,eng] 50-5798
- On a sampling error in hailpad measurements. Wirth, E., et al., [1983,eng] 50-4638
- Precipitation gauge. Weydert, M., et al., [1990,ger] 50-3384
- Special problems of the precipitation conditions evaluation in mountainous areas of Slovakia. Lapin, M., et al., [1991,eng] 50-3520
- Prefabricated buildings**
- See [also]:* Prefabrication
- Prefabrication**
- Construction activities inside of air structures protected from the arctic environment. Mangus, A.R., [1991,eng] 50-1730
- Laboratory testing of air retarders in metal building panels. Flanders, S.N., et al., [1995,eng] 50-1980
- Preserving**
- Analytical modelling of heat transfer from a single slab in freezing. Dincer, I., [1995,eng] 50-3818
- Antifreeze proteins and their potential use in frozen foods. Griffith, M., et al., [1995,eng] 50-5691
- Bacterial ice nucleation and its potential applications in the food industry. Li, J.K., et al., [1995,eng] 50-1956
- Core preservation to aid arctic oil reservoir evaluation. MacGregor, K.W., et al., [1991,eng] 50-1740
- Electron microscopy of frozen pea leaf cellular microstructure. Kaneko, Y., et al., [1996,eng] 50-5252
- Enhanced preservation of volatile organic compounds in soil with sodium bisulfate. Hewitt, A.D., [1995,eng] 50-2566
- Method of preserving ice. Feldman, B.I.A., [1992,rus] 50-1947
- Potential food applications of high-pressure effects on ice-water transitions. Kalichevsky, M.T., et al., [1995,eng] 50-1955
- Variables of cryopreservation of marine microalgae. Cañavate, J.P., et al., [1995,eng] 50-4327
- Vitrification of articular cartilage by high-pressure freezing. Studer, D., et al., [1995,eng] 50-6589
- See [also]:* Storage
- Pressure**
- Device for measuring pressure. Zinov'ev, V.A., et al., [1992,rus] 50-1921
- Some examples of stationary investigations of cryogenic processes in Transbaikalia. Poznanin, V.L., et al., [1993,rus] 50-114
- Wellbore multiphase-flow correlation for the eastern operating area of Prudhoe Bay. Bradley, D.A., [1991,eng] 50-1728
- See [also]:* Atmospheric pressure; Ice pressure; Soil pressure; Vapor pressure; Water pressure; Wind pressure
- Pressure ridges**
- Acoustic and seismic studies of ice mechanics. Farmer, D., et al., [1995,eng] 50-6272
- Acoustic tomography of ice cracking and ridging. Rajan, S.D., [1995,eng] 50-6275
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Degradation of ice-moraine ridges in natural conditions. Szponar, A., [1993,eng] 50-2212
- Effects of individual ridging events on the ice thickness distribution in the arctic ice pack. Hopkins, M.A., [1996,eng] 50-3828
- Extraction of deformation descriptors from spaceborne radar ice motion products. Li, S., et al., [1995,eng] 50-1812
- Ice conditions along the North-East Passage in view of ship trafficability studies. Riska, K., [1995,eng] 50-198
- Ice processes at the 1 km scale. Hopkins, M.A., et al., [1995,eng] 50-6297
- Ice surface oscillation measurements on SIMI using strain, heave and tilt sensors. Wadhams, P., et al., [1995,eng] 50-6306
- Ice tank tests on pressure ridge formation. Lensu, M., et al., [1995,eng] 50-4582
- Improved detection of acoustic sources in ice-ridging ocean environment. Zala, C.A., et al., [1995,eng] 50-1461
- Model of drag forces on sea ice bottom surfaces. Pite, H.D., et al., [1995,eng] 50-2740
- Numerical simulation of arctic pressure ridging. Hopkins, M.A., [1995,eng] 50-6289
- On naled sheet processes which generate moraine ridges. Klys, P., [1993,eng] 50-2206
- On the structure of pressured sea ice. Kovacs, A., [1970,eng] 50-3835
- Proceedings. Sea Ice Mechanics and Arctic Modeling Workshop, Anchorage, AK, Apr. 25-28, 1995, [1995,eng] 50-6271
- Ridging and strength in modeling the thickness distribution of arctic sea ice. Flato, G.M., et al., [1995,eng] 50-570
- Sea ice failure mechanisms. Pritchard, R.S., [1995,eng] 50-6274
- Sea ice induced gouging of the sea floor. Weeks, W.F., et al., [1995,eng] 50-6302
- Sea ice mechanics research. Coon, M.D., et al., [1995,eng] 50-6284
- Structure and flexural strength of sea ice and consolidation of pressure ridges. Shapiro, L.H., et al., [1995,eng] 50-6283
- Study of multi-year pressure ridges and shore ice pile-up. Kovacs, A., [1975,eng] 50-855
- Study of the morphology of a discontinuous section of a first year arctic pressure ridge. Bowen, R.G., et al., [1996,eng] 50-3829
- Surface morphology and backscattering of ice-ridge sails in the Baltic Sea. Manninen, A.T., [1996,eng] 50-4899
- Thermal ice ridges or ramparts in Lake Kusscharo. Toukairin, A., [1996,eng] 50-5909
- Topographic origin for double-ridge features in visible imagery of ice divides in Antarctica. Goodwin, A.H., et al., [1995,eng] 50-1870
- Prestressed concretes**
- Full scale impact test of PC rock-shed with shock absorbing system. Sato, M., et al., [1995,eng] 50-2688
- Low temperature behaviour of CFRP prestressed concrete beams. Bryan, P.E., et al., [1996,eng] 50-5811
- Prevention**
- See [also]:* Countermeasures
- Probes**
- Aircraft observations of ice formation over the Japan Sea. Asuma, Y., et al., [1995,eng] 50-6716
- Analysis of thermal stresses around a cryosurgical probe. Rabin, Y., et al., [1996,eng] 50-5814
- Arctic atmospheric particle measurements from forward scattering spectrometer. Dye, J.E., et al., [1990,eng] 50-5995
- Bacterial ecosystem dynamics in a high mountain lake. Alfrieder, A., et al., [1996,eng] 50-5681
- Electrical freezing potentials measured in a pingo growing in the western Canadian Arctic. Parameswaran, V.R., et al., [1996,eng] 50-5471
- Fluorimetric assessment of bacteria after freeze-thawing. Puchkov, E.O., et al., [1995,eng] 50-5865
- Helium atom scattering study of water adsorption on the NaCl(100) single crystal surface. Bruch, L.W., et al., [1995,eng] 50-412
- Icing conditions encountered by a research aircraft. Sand, W.R., et al., [1984,eng] 50-4493
- Observational and theoretical studies of solar radiation in arctic stratus clouds. Herman, G.F., et al., [1984,eng] 50-4913
- Observed particle evolution in the polar stratospheric cloud of January 24, 1989. Dye, J.E., et al., [1990,eng] 50-5996
- Polar stratospheric cloud event, 1989, pt.1. Poole, L.R., et al., [1990,eng] 50-6021
- Probe method for interstitial soil water sampling. Harrison, W.D., et al., [1981,eng] 50-3063
- Production and depletion of supercooled liquid water in a Colorado winter storm. Politovich, M.K., et al., [1995,eng] 50-3560
- Radar and radiation properties of ice clouds. Atlas, D., et al., [1995,eng] 50-1246
- Production**
- See [also]:* Manufacturing
- Profiles**
- 1989 AASE temperature and wind measurements. Chan, K.R., et al., [1990,eng] 50-5980
- 1991 ice jamming along the Saint John River: a case study. Beltaos, S., et al., [1996,eng] 50-5809

Projects

- 20th-century glacial-marine sedimentation in Vinus Lake, Bering Glacier, Alaska. U.S.A. Molnia, B.F., et al. [1996,eng] 50-6262
- Active layer thermal diffusivity from finite difference mathematical methods. Zhang, T., et al. [1995,eng] 50-1141
- ADCP-referenced geostrophic circulation in the Bering Sea basin. Cokelet, E.D., et al. [1996,eng] 50-6635
- Airborne hydrogen peroxide measurements in supercooled clouds. Snider, J.R., et al. [1995,eng] 50-2114
- Antarctic stratospheric spectroscopy using N₂O observations. Crewell, S., et al. [1995,eng] 50-1329
- Arctic haze phenomenon. Shaw, G.E., [1995,eng] 50-4569
- Arctic stratospheric cloud and temperature variations, 1989. Hofmann, D.J., [1990,eng] 50-5985
- Arsenic pollutants in Pechora Sea sediments. Loring, D.H., et al. [1995,eng] 50-1829
- Assessment of rock glacier sliding velocity. Whalley, W.B., et al. [1995,eng] 50-2809
- Atmospheric chemistry changes versus past climate inferred from polar ice cores. Legrand, M., [1995,eng] 50-1643
- Background stratospheric aerosol and polar stratospheric cloud reference models. McCormick, M.P., et al. [1996,eng] 50-6712
- Basal debris entrainment of Canadian arctic glaciers. Zdanowicz, C.M., et al. [1996,eng] 50-6247
- Base Pliocene velocity inversion on the eastern Voring Margin—causes and implications. Reemst, P., et al. [1996,eng] 50-5316
- Calorimetric determination of permafrost water-ice phase composition. Fortier, R., et al. [1996,eng] 50-4863
- Case for cold-based continental ice sheets—a transient thermal model. Heine, J.T., et al. [1996,eng] 50-4890
- Case study in three-dimensional inverse methods: combining hydrographic, acoustic, and moored thermistor data in the Greenland Sea. Morawitz, W.M.L., et al. [1996,eng] 50-5167
- Cenozoic shelf erosion of the Barents Sea margin. Fiedler, A., et al. [1996,eng] 50-5309
- Changes in the configuration of ice stream flow from the West Antarctic ice sheet. Jacobel, R.W., et al. [1996,eng] 50-4360
- Characteristics of basal ice at Engabreen, northern Norway. Jansson, P., et al. [1996,eng] 50-6248
- Comments on "The impact of the ice phase and radiation on a midlatitude squall system". Braun, S.A., et al. [1996,eng] 50-5476
- Comments on the crystal structure of solid trichlorofluoromethane. Prado, P., et al. [1995,eng] 50-3144
- Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar. Zeng, X.X., et al. [1995,eng] 50-1804
- Crystal structure of dichlorofluoromethane. Pridmore, R.W., et al. [1996,eng] 50-4695
- Denitrification of the polar winter stratosphere. Hamill, P., et al. [1990,eng] 50-6000
- Detection of weakly precipitating winter clouds by a NOAA 404-MHz wind profiler. Orr, B.W., et al. [1996,eng] 50-5164
- Determination of alpine treeline variations from soil charcoal sediments. Carcaillet, C., et al. [1996,eng] 50-4746
- Determination of liquid water altitudes using combined remote sensors. Politovich, M.K., et al. [1995,eng] 50-1414
- Doppler radar analysis of a severe spring snowstorm. Shields, M.T., et al. [1993,eng] 50-5250
- Estimation of mean flow velocity in ice-covered channels—discussion. Engel, P., et al. [1996,eng] 50-6338
- Evidence for midwinter chemical ozone destruction over Antarctica. Vömel, H., et al. [1995,eng] 50-754
- Forest fire records inferred from Greenland ice core chemistry. Legrand, M., et al. [1996,eng] 50-3447
- Formation and evolution of the surface mixed layer and halocline of the Arctic Ocean. Rudels, B., et al. [1996,eng] 50-5261
- Geochemical criterion for recognition of Pleistocene ice rafting events. Thomson, J., et al. [1995,eng] 50-1250
- Glacial cirque formation in northern Scandinavia. Richardson, C., et al. [1996,eng] 50-6246
- Glacially-fed North Sea Quaternary sedimentation. King, E.L., et al. [1996,eng] 50-4877
- Glacio-meteorological and isotopic studies along the EGIG line, central Greenland. Fischer, H., et al. [1995,eng] 50-1873
- Global three-dimensional constituent fields derived from profile data. Douglass, A.R., et al. [1990,eng] 50-6018
- Grain multiplication mechanism for sea ice transition zone formation. Wei, Y.C., et al. [1995,eng] 50-1143
- Greenland paleotemperatures derived from ice core isotope profiles. Johnsen, S.J., et al. [1995,eng] 50-2027
- Ground-based remote sensing of cloud ice particle sizes. Matrosov, S.Y., et al. [1995,eng] 50-3257
- Growth of acidic polar stratospheric aerosols. Hamill, P., et al. [1996,eng] 50-4311
- Heat flux through Weddell Sea ice cover. Lytle, V.I., et al. [1996,eng] 50-5263
- Hydrogen species partitioning in the arctic stratosphere. Schiller, C., et al. [1996,eng] 50-5766
- Ice content retrieval from clouds using Doppler radar. Sauvageot, H., [1996,eng] 50-2772
- In situ measurements of NO₂ in the Airborne Arctic Stratospheric Expedition. Carroll, M.A., et al. [1990,eng] 50-6011
- Influence of runoff from land on the distribution of hydrologic characteristics of the Kara Sea. Burenkov, V.I., et al. [1995,eng] 50-3531

- Infrared measurement of arctic atmospheric chemical species. Wetzel, G., et al. [1995,eng] 50-2115
- Injection profiling in the Kuparuk River Field, Alaska. Scott, H.D., et al. [1991,eng] 50-1741
- Interpretation of nitric oxide profile observed in January 1992 over Kiruna. Kondo, Y., et al. [1996,eng] 50-6637
- Isotope analysis of Bering Sea Pleistocene sediment variations. Nakatsuka, T., et al. [1995,eng] 50-3002
- Isotopic calibration of Canadian arctic climatic change records. Beltrami, H., et al. [1995,eng] 50-3682
- Late Cenozoic evolution of the western Barents Sea-Svalbard continental margin. Faleide, J.I., et al. [1996,eng] 50-5308
- Late Cenozoic sedimentation and uplift history on the mid-Norwegian continental shelf. Henriksen, S., et al. [1996,eng] 50-5315
- Late Wisconsinan ice retreat from the Sootian Shelf. King, L.H., [1996,eng] 50-6533
- Lead isotopic ratios in Greenland and antarctic snow and ice. Chisholm, W., et al. [1995,eng] 50-1256
- Mapping the architecture of glaciofluvial sediments with three-dimensional georadar. Beres, M., et al. [1995,eng] 50-2529
- Marine geophysical investigations in the Laptev Sea and the western part of the East Siberian Sea. Roeser, H.A., et al. [1995,eng] 50-2106
- Marine record of the Russell Fjord outburst flood, Alaska. U.S.A. Cowan, E.A., et al. [1996,eng] 50-6260
- Mass movements in glaciomarine sediments on the Barents Sea continental slope. Kuvvas, B., [1996,eng] 50-5321
- Measurements of the underside topography of sea ice by moored subsea sonar. Melling, H., et al. [1995,eng] 50-160
- Mesoscale precipitation structure in winter storms. Ramamurthy, M.K., et al. [1991,eng] 50-4417
- Mid stratospheric ozone minima in polar regions. Austin, J., et al. [1995,eng] 50-1181
- Middle and Late Pleistocene evolution of the Bear Island Trough Mouth Fan. Laberg, J.S., et al. [1996,eng] 50-5322
- Missing chemistry of reactive nitrogen in the upper stratospheric polar winter. Kawa, S.R., et al. [1995,eng] 50-1189
- Model of shoreward movement of grounded lake ice. Sasaki, T., et al. [1995,eng] 50-3329
- Model to retrieve precipitation rate profiles from airborne radar and radiometer measurements. Weinman, J.A., et al. [1992,eng] 50-3571
- Moisture profiling of the cloudy winter atmosphere using combined remote sensors. Stankov, B.B., et al. [1995,eng] 50-158
- Monitoring organic pollutants in the Arctic in 1992. Fellin, P., et al. [1996,eng] 50-4359
- N₂O as a dynamical tracer in the arctic vortex. Loewenstein, M., et al. [1990,eng] 50-6007
- Nitric oxide measurements in the arctic winter stratosphere. Fahey, D.W., et al. [1990,eng] 50-6010
- Noctilucent clouds and the thermal structure near the arctic mesopause in summer. Lübken, F.J., et al. [1996,eng] 50-5453
- North Polar stratospheric cloud dynamics. Rosen, J.M., et al. [1990,eng] 50-4723
- Numerical simulation of arctic stratus cloud turbulence. Smith, W.S., et al. [1996,eng] 50-2773
- Observational and theoretical studies of solar radiation in arctic stratus clouds. Herman, G.F., et al. [1984,eng] 50-4913
- Observations of anomalous oceanic crust in the Canada Basin, Arctic Ocean. Jackson, H.R., et al. [1995,eng] 50-410
- Ozone and aerosol correlated observations at Thule, Greenland, in the period 1991-1994. Di Sarra, A., et al. [1995,eng] 50-2849
- Paleoclimatic interpretation of topographic variations in Tibetan lake shorelines. Avouac, J.P., et al. [1996,eng] 50-5094
- Paleoecology of Swedish bogs. Segerström, U., et al. [1996,eng] 50-4373
- Permafrost influence on glacier sediment deformation. Etzelmüller, B., et al. [1996,eng] 50-6240
- Phreatic water surface profiles along ice jams—an experimental study. Saadé, R.G., et al. [1996,eng] 50-6693
- Physical characteristics of arctic stratus clouds. Tsay, S.C., et al. [1984,eng] 50-4922
- Physical limnological processes under ice. Kenney, B.C., [1996,eng] 50-6578
- Phytoplankton seasonal bloom shift in Barents Sea ice. Strass, V.H., et al. [1996,eng] 50-6721
- Pleistocene lacustrine record of a Chinese lake. Rhodes, T.E., et al. [1996,eng] 50-5095
- Pliocene sand ridges at the Barents Sea margin. Knutsen, S.M., et al. [1996,eng] 50-5314
- Polar Ozone and Aerosol Measurement instrument. Glaccum, W., et al. [1996,eng] 50-5765
- Possible consequences of glacially induced groundwater flow. Forsberg, C.F., [1996,eng] 50-5325
- Profiles of particle characteristics in blowing snow. Naaim, M., et al. [1995,eng] 50-1062
- Quaternary sedimentary processes and budgets in Orphan Basin, southwestern Labrador Sea. Hiscott, R.N., et al. [1996,eng] 50-4579
- Radiative effects of polar stratospheric clouds. Kinne, S., et al. [1990,eng] 50-5986
- Radiative heating rates during the Airborne Arctic Stratospheric Expedition. Rosenfeld, J.E., et al. [1990,eng] 50-5981
- Radiometry of Scandinavian atmospheric chemistry. Wehr, T., et al. [1995,eng] 50-1332
- Radionuclide tracer profiles on Arctic Ocean ice islands. Smith, J.N., et al. [1995,eng] 50-4560

- Recovery of ozone in the lower stratosphere at the South Pole during the spring of 1994. Hofmann, D.J., et al. [1995,eng] 50-1182
- Relevance of ice thickness measurements to Alaskan glacier variations. Nolan, M., et al. [1995,eng] 50-1875
- Rocket-borne spectrometry of arctic stratospheric chemistry. Schlager, H., et al. [1990,eng] 50-5998
- Role of atmospheric waves in the laminated structure of ozone profiles at high latitude. Teitelbaum, H., et al. [1996,eng] 50-5871
- SAM II aerosol measurements during the 1989 AASE. Osborn, M.T., et al. [1990,eng] 50-5992
- Satellite monitoring of antarctic stratosphere volcanic aerosols. Saxena, V.K., et al. [1995,eng] 50-591
- Satellite sounding of arctic stratospheric temperatures. Claud, C., et al. [1996,eng] 50-3445
- Scandinavian Pleistocene tectonic correlations. Riis, F., [1996,eng] 50-5323
- Sea ice scouring on the inner shelf of the southeastern Canadian Beaufort Sea. Héquette, A., et al. [1995,eng] 50-1830
- Sea of Okhotsk near-freezing dichothermal layer variations. Yang, J.Y., et al. [1996,eng] 50-6219
- Seasonal development of Beaufort Sea pack ice. Melling, H., et al. [1996,eng] 50-5857
- Seismic investigation of glacial tunnel channels. Pugin, A., et al. [1996,eng] 50-6257
- Seismic reflection data from the Fram Strait. Jokat, W., et al. [1995,eng] 50-2541
- Simulation and observation of ice formation (freeze-over) in a lake. Fang, X., et al. [1996,eng] 50-5466
- Simulation of summer snowmelt on the Greenland ice sheet using a one-dimensional model. Rowe, C.M., et al. [1995,eng] 50-585
- Simulation of wet-snow accretion by axial growth on a transmission line conductor. Poets, G., et al. [1995,eng] 50-2349
- Small-scale waves encountered during AASE. Bacmeister, J.T., et al. [1990,eng] 50-5982
- Snow identification from radar wind profiler spectra. Ralph, F.M., et al. [1996,eng] 50-5163
- Sounding of aerosol formation in the arctic stratosphere. Hofmann, D.J., et al. [1990,eng] 50-4725
- Sounding of arctic polar stratospheric clouds, 1990. Hofmann, D.J., et al. [1990,eng] 50-4731
- Spectrometry of Norwegian Sea water radioactive isotopes. Moran, S.B., et al. [1995,eng] 50-1186
- Spectroscopy of ices in quiescent cosmic dust clouds. Chiar, J.E., et al. [1995,eng] 50-2779
- Stability of M₂ critical latitude in the Barents Sea. Furevik, T., et al. [1996,eng] 50-5262
- Stratospheric constituent trends from ER-2 profile data. Schoeberl, M.R., et al. [1990,eng] 50-6005
- Stratospheric ozone layer above Spitsbergen in winter 1989. Neuber, R., et al. [1990,eng] 50-5975
- Structure of solid fluoroform. Torrie, B.H., et al. [1996,eng] 50-4696
- Study of the morphology of a discontinuous section of a first year arctic pressure ridge. Bowen, R.G., et al. [1996,eng] 50-3829
- Submerged terraces in the Barents Sea. Lebesbye, E., et al. [1996,eng] 50-4876
- Thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. Björnson, H., et al. [1996,eng] 50-4888
- Thrusting and debris entrainment in a surging glacier: Bakaninbreen, Svalbard. Hambrey, M.J., et al. [1996,eng] 50-6267
- Total hydrogen budget in the arctic winter stratosphere. Engel, A., et al. [1996,eng] 50-5767
- Turbine blade icing model. Finstad, K.J., et al. [1992,eng] 50-3628
- Vertical mixing processes in the western Weddell Sea. Robertson, R., et al. [1995,eng] 50-569
- See [also]: Soil profiles; Stratigraphy
- Projects**
See [also]: Research projects
- Propagation**
Report on underwater noise. Davis, R.A., et al. [1991,eng] 50-3420
- Propellers**
Aircraft icing handbook. [1993,eng] 50-5064
Attempt to draw a scenario of ice/propeller interaction. Tamura, K., et al. [1996,eng] 50-4475
De-icer. Briscoe, J.A., et al. [1988,eng] 50-2333
Design of ice-navigating cargo vessels. Kitagawa, H., [1996,eng] 50-4470
Development of a wind turbine system for Antarctica. Kimura, S., [1992,eng] 50-3633
Development of optimum hull forms for icebreaking cargo ships for the Northern Sea Route. Kishi, S., et al. [1996,eng] 50-4473
Evaluating the effects of icing on wind turbines. Walsh, M., [1992,eng] 50-3636
Hydrodynamic performance of ship hull forms designed for the NSR cargo ship. Uto, S., et al. [1996,eng] 50-4474
Icing of wind turbine rotor blades during operation. Seifert, H., [1992,eng] 50-3631
Icing test and rework of WECS for use on Lapland's fjells. Böhmke, G., et al. [1992,eng] 50-3635
Improved numerical model for wind turbine icing. Finstad, K.J., et al. [1996,eng] 50-5391
Influence of cavitation on icebreaker propellers. Walker, D., et al. [1995,eng] 50-200

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- Marine seismic system. Odegaard, J., et al. [1993,eng] 50-2336
- Mechanics of marine screw propeller ice cutting processes. Veitch, B., [1995,eng] 50-4154
- Non-contact loads on propellers in ice-blocked flows. Luznik, L., et al. [1995,eng] 50-2941
- Northern Sea Route reconnaissance study: a summary of ice-breaking technology. Sodhi, D.S., [1995,eng] 50-395
- Proceedings. International Experts' Meeting on Wind Power in Icing Conditions, Helsinki, Finland, 1992. Boreas-North Wind-Pohjatuli, [1992,eng] 50-3626
- Rime accretion on the fells. Tammelin, B., et al. [1992,eng] 50-3639
- Series of model tests in ice of ice-going cargo ships for future traffic in the Northern Sea Route. Ishikawa, S., et al. [1996,eng] 50-4472
- Structure-independent measurement of icing. Makkonen, L., [1992,eng] 50-3629
- Turbine blade icing model. Finstad, K.J., et al. [1992,eng] 50-3628
- Wind energy research in NEMO—research program. Peltola, E., [1992,eng] 50-3627
- Prospecting**
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- Protection**
Arctic pipeliners get to grips with scour.[1990,eng] 50-5587
- Canadians wrap-up arctic vessels.[1986,eng] 50-5654
- Concrete TLP to sit out Barents bergs. Cottrill, A., [1990,eng] 50-3866
- Durability cracking from freeze-thaw in concrete. Janssen, D.J., et al. [1986,eng] 50-2801
- Hibernia edges forward as bidding starts. Fox, C., [1988,eng] 50-4969
- Impact of potential TV tower icing on a nearby proposed expressway. Courtney, F.E., [1993,eng] 50-6664
- Large-diameter glory hole drilling: the evolution from 12- to 20-ft diameter. Shields, R.G., [1991,eng] 50-1738
- New, low-cost, ice- and wave-resistant port facility at Nome, Alaska. Swigart, W.S., et al. [1991,eng] 50-1732
- Offshore development in iceberg-infested waters with the use of a concrete protective barrier. Broughton, P., et al. [1991,eng] 50-1731
- Protection against chloride-induced corrosion. Berke, N.S., et al. [1988,eng] 50-4229
- Relationship of telluric currents to the corrosion of warm arctic pipelines. Sackinger, W.M., [1991,eng] 50-1725
- Shaft and Tunnel Access (SATAC) concepts for developing petroleum reserves. Haskin, C.A., et al. [1991,eng] 50-1742
- Snow damage to spruce trees during a fertilization experiment. Valinger, E., et al. [1996,eng] 50-4330
- Trends in the development of radiation-protective polymer composite materials. Pavlenko, V.I., et al. [1995,eng] 50-3440
- See [also]: Bank protection (waterways); Countermeasures; Environmental protection; Frost protection; Slope protection; Soil stabilization
- Protective coatings**
Corrosion control paints for steel pipeline supports in cold regions. Nakamura, Y., et al. [1996,eng] 50-6121
- Effect of color and texture on the surface temperature of asphalt concrete pavements. Berg, R.L., [1985,eng] 50-4362
- Effectiveness of coatings on concrete under freezing and thawing conditions. Sato, T., et al. [1995,eng] 50-2669
- Frost resistance of surface layer of concrete with permeable sheet. Sugawara, T., et al. [1995,eng] 50-2656
- Frost resistance of surface-coated concrete. Takahashi, J., et al. [1994,jpn] 50-2834
- Highly elastic surface coating to protect structures exposed to coastal/marine environments. Swamy, R.N., et al. [1992,eng] 50-2753
- Ice formation on the guywires of Hydro-Québec telecommunications towers. Gastonguay, L., et al. [1996,eng] 50-5402
- Improved freeze-thaw stability in paints. Farwaha, R., et al. [1995,eng] 50-2055
- Investigation of ice-resistant coatings used to protect ice-breaker hull. Babtsev, V.A., et al. [1995,eng] 50-201
- Mitigation and durability of icy roads with urethane filled pavement grooving. Takeda, Y., et al. [1995,jpn] 50-6806
- Moisture cure urethane coatings for bridges in cold wet climates. Brinton, W.J., [1996,eng] 50-5946
- Northern climate weathering tests on sealed concrete. Chang, L.M., [1996,eng] 50-6119
- Painting fuel storage facilities with local labor in Nunavut. Prinsloo, H.F., [1996,eng] 50-5948
- Plating aluminum wheels against salt and sand. Graves, B.A., [1995,eng] 50-1070
- Simulation of foam protection of plants against frost. Krasovitski, B., et al. [1995,eng] 50-961
- Testing of radome material and special coatings for North Warning System. Crory, F.E., [1988,eng] 50-761
- Water vapor transfer through a hydrophilic film at subzero temperatures. Oszcewski, R.J., [1996,eng] 50-4498
- Winter protection for unprepared steel.[1989,eng] 50-5646
- See [also]: Surfactants
- Protective vegetation**
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- Drought and salt resistant plants in arid regions of China. Omasa, K., et al. [1991,jpn] 50-1442
- Grassland ecosystems in eastern Inner Mongolia. Nemoto, M., [1991,jpn] 50-1440
- Management of winter soil temperatures to control streambank erosion. Bohn, C., [1989,eng] 50-2464
- Possibility of using soil algae in improving disturbed tundra lands. Dubovik, I.E., et al. [1994,rus] 50-280
- Protection of the vegetation cover in the Far North: problems and prospects. Druzhinina, O.A., et al. [1990,rus] 50-92
- Resistance to snow damage by trees on slopes. Bojo, C., et al. [1995,jpn] 50-990
- Technological improvement of biological recultivation of soils in Komi. Lobovikov, N.N., et al. [1994,rus] 50-291
- Vegetation cover in technogenic regions of Northern Europe. Gruzdev, B.I., et al. [1994,rus] 50-263
- See [also]: Forest strips; Snow hedges
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Dipole moment of the water molecule in the condensed phase: a periodic Hartree-Fock estimate. Gatti, C., et al. [1995,eng] 50-3817
- Electrical properties of pure and doped ice Ih. Taubenberger, R., [1982,ger] 50-5761
- Fluorescence spectra and lifetime of 2-naphthol in H₂O- and D₂O-ice(I_h) single crystal. Ping, Q., et al. [1995,eng] 50-2161
- Ions and dipoles in water and ice, and their transfer through the interface. Von Hippel, A., et al. [1974,eng] 50-5739
- Isotopic exchange during glass transition of amorphous ice. Fisher, M., et al. [1995,eng] 50-150
- Molecular dynamic simulation of proton transport in supercooled water. Di Cola, D., et al. [1996,eng] 50-3715
- Observation of Fano interference in high-pressure ice VII. Aoki, K., et al. [1996,eng] 50-3337
- Propagation of elastic waves in ice. Ryzhkin, I.A., [1984,eng] 50-5787
- Proton dynamics of doped ice. Akiyama, T., et al. [1996,eng] 50-6726
- Solvation of hydrogen halides on the surface of ice. Robertson, S.H., et al. [1995,eng] 50-6069
- X-ray analysis of frozen clathrate hydrates. Bednarek, J., et al. [1996,eng] 50-4555
- Protons**
Chemical sputtering could produce sodium vapor and ice on Mercury. Potter, A.E., [1995,eng] 50-3093
- Flux and fluence of major solar proton events and their record in antarctic snow. Shea, M.A., et al. [1994,eng] 50-4622
- Ice/supercooled water linear correlation length from Raman spectroscopy. Walrafen, G.E., et al. [1995,eng] 50-152
- Lattice vibrations in ice I_h. Itoh, H., et al. [1996,eng] 50-6616
- Proton-ordered ice structures at zero pressure. A quantum-mechanical investigation. Pisani, C., et al. [1996,eng] 50-5935
- Solar particle origin for polar ice core nitrate anomalies. Zeller, E.J., et al. [1995,eng] 50-1184
- Spectroscopic measurements of ice XI. Li, J.C., et al. [1995,eng] 50-518
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- Handbook for field evaluation of the 600 ROWPU winterization kit. U.S. Army Cold Regions Research and Engineering Laboratory, [1990,eng] 50-6048
- Literature review on decontaminating groundwater sampling devices: organic pollutants. Parker, L.V., [1995,eng] 50-729
- Low-temperature environmental testing system design—Part 1. Lynde, P.G., et al. [1996,eng] 50-2457
- Observations of freezing-induced redistribution in soil lysimeters. Butler, A.P., et al. [1996,eng] 50-6082
- Priorities and small pumps in cold region water distribution systems. Mauser, M.W., [1995,eng] 50-5667
- System for recovery of oil from snow and ice surfaces. Aiken, L.B., [1995,eng] 50-3473
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- 110,000-yr record of explosive volcanism from the GISP2 (Greenland) ice core. Zielinski, G.A., et al. [1996,eng] 50-4575
- 12,000 year radiocarbon date of deglaciation from the continental divide of northwestern Montana. Carrara, P.E., [1995,eng] 50-3299
- Age of pre-late-Wisconsin glacial-estuarine sedimentation, Bristol Bay, Alaska. Kaufman, D.S., et al. [1996,eng] 50-4586
- Alpine glacial history reconstruction in Wyoming and Argentina. Gosse, J.C., [1994,eng] 50-672
- Applications of freshwater diatoms to geographical research. Moser, K.A., et al. [1996,eng] 50-5013
- Arctic tundra biodiversity: a temporal perspective from Late Quaternary pollen records. Brubaker, L.B., et al. [1995,eng] 50-3894
- Baltic Ice Lake. Brunnberg, L., [1995,eng] 50-513
- Barents Sea Pleistocene ice sheet growth deduced from marine sediment provenance. Elverhøi, A., et al. [1995,eng] 50-2012
- Basic features of glacial landforms in the Minshan. Tang, B.X., et al. [1994,eng] 50-4783
- Biostratigraphic evidence of an Icelandic paleoclimatic oscillation. Rundgren, M., [1995,eng] 50-2017
- Boreal ecosystem development in the northwestern Alaska Range since 11,000 yr B.P. Hu, F.S., et al. [1996,eng] 50-4581
- Calibration of radiocarbon ages and the interpretation of paleoenvironmental records. Bartlein, P.J., et al. [1995,eng] 50-2018
- Canadian paleoenvironments derived from pollen macrofossils. Gajewski, K., et al. [1995,eng] 50-2131
- Carbonate minerals in glacial sediments: geochemical clues to paleoenvironment. Fairchild, I.J., et al. [1990,eng] 50-925
- Catastrophic drainage from ice-dammed glacial Lake Assiniboine. Wolfe, B., et al. [1995,eng] 50-4881
- Characteristics of the post-glacial advance and retreat in Mount Xixia Bangma region. Zheng, B.X., [1982,chi] 50-6606
- Chronology of Upper Pleistocene stratified slope-waste deposits in central Italy. Coltorti, M., et al. [1996,eng] 50-6700
- Climatic changes in Europe during the last glacial/interglacial transition. Walker, M.J.C., [1995,eng] 50-502
- Climatic implications of ostracode deposits in Greenland Quaternary sediments. Brouwers, E.M., et al. [1991,eng] 50-2564
- Coastal Greenland Holocene sea level changes. Rasch, M., et al. [1995,eng] 50-5533
- Collected papers on the Quaternary in arid region Xinjiang. Xinjiang University, Xinjiang Geology and Mineral Resources Bureau, Xinjiang Branch Academy of Sciences, [1985,chi] 50-1995
- Comment and reply on paper by Batterson et al. Brookes, I.J., et al. [1995,eng] 50-1083
- Comment on paper by Baumann et al. Forsström, L., et al. [1996,eng] 50-6709
- Common features of the Upper Quaternary and historical glaciation in the Caucasus and Tien Shan. Gerasimov, V.A., [1972,rus] 50-543
- Comparative analytical techniques for glacial diamicton studies. Walden, J., et al. [1996,eng] 50-6537
- Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar. Zeng, X.X., et al. [1995,eng] 50-1804
- Composition and construction of late Pleistocene end moraines, Durango, Colorado. Johnson, M.D., et al. [1995,eng] 50-1859
- Contributions to research on Tibet. Pörtl, K.H., ed. et al. [1994,ger] 50-4774
- Cryolithological structure of Quaternary deposits on Wrangel Island. Kotov, A.N., et al. [1996,rus] 50-6379
- Danish lacustrine sediment evidence of paleoclimatological variability. Hammarlund, D., et al. [1996,eng] 50-5826
- Danube River fluvial geomorphodynamics during the Quaternary. Buch, M.W., et al. [1995,eng] 50-2749
- Deglaciation chronology of West Greenland moraines. Van Tatenhove, F.G.M., et al. [1996,eng] 50-5187
- Deglaciation of a Late Devensian British ice sheet. Merritt, J.W., et al. [1995,eng] 50-1858
- Deposition of organic matter in the Norwegian-Greenland Sea during the past 2.7 million years. Wagner, T., et al. [1995,eng] 50-2016
- Depositional sequence of the Quaternary period in Xinjiang. Peng, X.L., [1985,chi] 50-2005
- Deposits from the Warta Glaciation against a background of Pleistocene deposits. Lisicki, S., [1993,pol] 50-3663
- Desert and lake deposits in the Taklimakan Desert. Endo, K., et al. [1991,jpn] 50-1423
- Developmental conditions of the Farnham bog, Québec. Lavoie, M., et al. [1995,fre] 50-4885
- Discussion on the division and correlation of Holocene series in Xinjiang. Bai, M.X., [1985,chi] 50-2007
- Discussion on the Quaternary glaciations in the Karakorum-West Kunlun Mountains. Li, B.Y., et al. [1994,eng] 50-1534
- Distribution of ice age sediments in northern Germany. Ehlers, J., [1990,ger] 50-1788
- Division and duration of ice age dating from global comparisons. Brunnacker, K., [1990,ger] 50-1784
- Early Holocene environment on Bjørøya from lake sediments. Wohlfarth, B., et al. [1995,eng] 50-4721
- Early Holocene moraine bank sedimentology of East Greenland. Huddart, D., et al. [1990,eng] 50-929
- Early Pleistocene strata and the Quaternary lower boundary in northern Xinjiang. Lu, S.A., [1985,chi] 50-2006
- Early Weichselian interstadial sediments at Härnösand, Sweden. García Ambrosiani, K., et al. [1992,eng] 50-2559
- Eastern Canadian Arctic at ca. 6 ka BP: a time of transition. Williams, K.M., et al. [1995,eng] 50-1450
- Eemian interglacial and its termination. Dansgaard, W., et al. [1981,eng] 50-3622
- Electron scanning of Quaternary deposit grain shape. Molnár, B., et al. [1995,eng] 50-1040
- Enhanced dating procedures for arctic Quaternary marine deposits. Goodfriend, G.A., et al. [1996,eng] 50-4580
- Eskers: an essay of bibliographic review. Levasseur, D., [1995,fre] 50-5042
- European paleoclimatic changes based on coleopteran analysis. Coope, G.R., et al. [1995,eng] 50-6565
- Evidence for Holocene seismic triggering of Arctic Ocean turbidites. Grantz, A., et al. [1996,eng] 50-6223
- Evidence of Pleistocene drainage of a Scandinavian ice lake. Bergsten, H., et al. [1992,eng] 50-2555

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- Expanded record of Quaternary oceanographic change: Amerasian Arctic Ocean. Ishman, S.E., et al. [1996,eng] 50-3388
- Field guide to the Churchill region, Manitoba. Dredge, L.A., [1992,eng] 50-3910
- Final stages in Laurentide ice sheet collapse, Hudson Strait. Andrews, J.T., et al. [1995,eng] 50-6556
- Fluctuations of local glaciers at the termination of the Pleistocene: 18-8 ka BP. Clapperton, C.M., [1995,eng] 50-500
- Fluctuations of the South Patagonian ice-field during the last glaciation and the Holocene. Marden, C.J., et al. [1995,eng] 50-6211
- Fluvial dynamics in the periglacial belt of the central Austrian Alps. Höfner, T., [1995,eng] 50-2751
- Foraminiferal evidence of Younger Dryas age cooling on the British Columbia shelf. Patterson, R.T., et al. [1995,eng] 50-5039
- Formation of De Geer moraines deposited subglacially, central Québec. Beaudry, L.M., et al. [1995,eng] 50-5035
- Fossilization potential of arctic fjord and continental shelf benthic macrofaunas. Aitken, A.E., [1990,eng] 50-923
- Four Scandinavian glaciations in the Vistula Gap of the South Polish Uplands. Pożaryski, W., et al. [1995,eng] 50-2612
- Full-glacial shoreline vegetation during the maximum highstand at Owens Lake, California. Koehler, P.A., et al. [1994,eng] 50-1543
- Geochemical evolution and paleoclimatology of a salt lake in the Qaidam Basin. Han, F.Q., et al. [1995,chi] 50-4126
- Geological and geophysical exploration of alpine and peri-alpine glacial valleys. Pugin, A., et al. [1995,eng] 50-3315
- Geology of a Spitsbergen fault zone. Lamar, D.L., et al. [1993,eng] 50-4296
- Glacial drift and the glacial epoch in the Quaternary period of Xinjiang. Peng, X.L., [1985,chi] 50-2000
- Glacial evidence of climatic cooling during the Younger Dryas. Osborn, G.D., et al. [1995,eng] 50-4625
- Glacial isostatic uplift of Tibet as a consequence of a former ice sheet. Kühle, M., [1995,eng] 50-6064
- Glacially-fed North Sea Quaternary sedimentation. King, E.L., et al. [1996,eng] 50-4877
- Glacimarine deposits in southwestern Sweden. Stevens, R.L., [1990,eng] 50-930
- Glacimarine sediments from the Celtic Sea. Scourse, J.D., et al. [1990,eng] 50-932
- Glacioclastic process at Svalbard. Hambrey, M.J., et al. [1995,eng] 50-6559
- Glaciotectonic structures and their morphological expression in the Warta Glaciation zone. Klatkova, H., [1993,pol] 50-3659
- Global Younger Dryas? Pećet, D., [1995,eng] 50-504
- Gould Pond, Maine: late-glacial transitions from marine to upland environments. Anderson, R.S., et al. [1992,eng] 50-2561
- Great Qinghai-Xizang ice sheet. Han, T.L., [1991,chi] 50-2176
- Greenland and United Kingdom paleotemperatures comparisons from Greenland snow accumulation rates. Lowe, J.J., et al. [1995,eng] 50-1082
- Groundwater flow through Ontario glacial deposits. Gerber, R.E., et al. [1996,eng] 50-6750
- Gulf of Mexico meltwater influx during Laurentide deglaciation. Marchitto, T.M., et al. [1995,eng] 50-340
- History and drainage of large ice-dammed lakes along the Laurentide ice sheet. Teller, J.T., [1995,eng] 50-503
- Holocene development of a debris slope in subarctic Québec. Canada. Marion, J., et al. [1995,eng] 50-2857
- Holocene environmental changes in a Tibetan lake basin, pt.1. Fontes, J.C., et al. [1996,eng] 50-5090
- Holocene environmental changes in a Tibetan lake basin, pt.2. Van Campo, E., et al. [1996,eng] 50-5091
- Holocene environmental changes in a Tibetan lake basin, pt.3. Fan, H., et al. [1996,eng] 50-5092
- Holocene glacial chronology in Patagonia: Tyndall and Upsala glaciers. Aniya, M., [1995,eng] 50-2806
- Holocene glacier variations in central Asia. Savoskul, O.S., et al. [1996,eng] 50-4372
- Holocene shoreline displacement in southernmost Spitsbergen. Ziaja, W., et al. [1995,eng] 50-5537
- Holocene subalpine lake fluctuations in France. Magny, M., [1992,eng] 50-2560
- Holocene evolution of a stretch of an eastern Italian alpine valley. Friz, C., et al. [1995,eng] 50-6697
- Ice drift reconstructions from ice rafted coal fragments. Bischof, J., et al. [1990,eng] 50-926
- Ice sheet model test via glacial geological research in West Greenland. Van Tatenhove, F.G.M., et al. [1995,eng] 50-2013
- Ice-age history of Alaskan national parks. Elias, S.A., [1995,eng] 50-857
- Ice-rafted tephra sedimentation of the North Atlantic. Lacasse, C., et al. [1996,eng] 50-4140
- Ice-volume forcing of East Asian winter monsoon variations in the past 800,000 years. Ding, Z.L., et al. [1995,eng] 50-965
- Iceland paleoclimatology dynamics from volcanic ash in lacustrine deposits. Björck, S., et al. [1992,eng] 50-2547
- Identification of the Holocene-Pleistocene boundary in the Bering Sea by diatoms. Baldauf, J.G., [1982,eng] 50-3382
- Implications of glacial deposit physical properties for radiocarbon dating. Karow, P.F., [1992,eng] 50-2563
- Interpretation of subglacially-deformed materials. Benn, D.I., et al. [1996,eng] 50-5583
- Is there any real evidence for a huge shelf ice sheet in East Siberia? Sher, A., [1995,eng] 50-499
- Kulshan caldera: a Quaternary subglacial caldera in the North Cascades. Washington. Hildreth, W., [1996,eng] 50-6547
- Land form development and pedogenesis: the effects of the last glacial cycle in the forest of Fougères (Ille et Vilaine, Brittany, France). Van Vliet-Lanoë, B., et al. [1995,fre] 50-2996
- Landforms associated with Pleistocene glaciation in Ireland. Wilson, P., et al. [1995,eng] 50-5486
- Last glaciation in central Magellan Strait, southernmost Chile. Clapperton, C.M., et al. [1995,eng] 50-964
- Last Scottish ice-sheet: facts and speculative discussion. Sissons, J.B., [1981,eng] 50-3620
- Late Cenozoic geology and environmental evolution of the Qaidam Basin in Qinghai. [1986,chi] 50-1981
- Late glacial raised beaches and glacier recession in northeast Iceland. Norddahl, H., et al. [1993,eng] 50-4772
- Late glacial sedimentation and history of the Lake Nipigon Basin, Ontario. Lemoine, R.M., et al. [1995,eng] 50-4880
- Late Pleistocene deposits at Block Fen, Cambridgeshire, England. West, R.G., et al. [1995,eng] 50-6214
- Late Pleistocene environment of north China. Zheng, H.H., et al. [1991,chi] 50-1844
- Late Pleistocene sedimentary environment near Urumqi. Han, S.T., et al. [1985,chi] 50-1998
- Late Pleistocene soil formation on coastal lowlands of northern Yakutia. Gubin, S.V., [1995,eng] 50-963
- Late Quaternary climatic fluctuations of the Venezuelan Andes. Yuretich, R., ed. [1991,eng] 50-5643
- Late Quaternary environmental history of Bátorliget, N.E. Hungary. Willis, K.J., et al. [1995,eng] 50-2165
- Late Quaternary flux of eolian dust to the pelagic ocean. Rea, D.K., et al. [1994,eng] 50-1242
- Late Quaternary foraminiferal stratigraphy from western Svalbard. Lycke, A.K., et al. [1992,eng] 50-2557
- Late Quaternary glacial and environmental history of Kongsøya, Svalbard. Ingólfsson, Ó., et al. [1995,eng] 50-4713
- Late Quaternary glacial history and landscape development in Spitsbergen. Blümel, W.D., et al. [1994,ger] 50-1578
- Late Quaternary lake-level record from northern Eurasia. Harrison, S.P., et al. [1996,eng] 50-4578
- Late Quaternary paleoceanography of the Eurasian Basin, Arctic Ocean. Cronin, T.M., et al. [1994,eng] 50-658
- Late Quaternary paleoceanography of the mid- to outer continental shelf, East Greenland. Williams, K.M., et al. [1995,eng] 50-2810
- Late Quaternary sediments of the Qinghai-Xizang Plateau. Frenzel, B., et al. [1994,ger] 50-4779
- Late Quaternary stratigraphy and glaciology in the Thule area, Northwest Greenland. Funder, S., ed. [1990,eng] 50-5169
- Late Quaternary subaqueous outwash deposits near Ottawa, Canada. Rust, B.R., et al. [1975,eng] 50-4813
- Late Quaternary vegetation variations in western Beringia. Anderson, P.M., et al. [1996,eng] 50-4341
- Late stage 5 glacio-isostatic sea in the St. Lawrence Valley, Canada and the United States. Occhietti, S., et al. [1996,eng] 50-4577
- Late Weichselian to early Holocene sedimentation in eastern Svalbard. Möller, P., et al. [1995,eng] 50-4716
- Late Wisconsinan ice retreat from the Scotian Shelf. King, L.H., [1996,eng] 50-6533
- Late-Holocene glaciation and twentieth-century retreat, northeastern Brooks Range, Alaska. Evison, L.H., et al. [1996,eng] 50-4371
- Linking physical property records of Quaternary sediments to Heinrich events. Chi, J., et al. [1996,eng] 50-5221
- Loess layer and the paleoclimate of northern piedmont of Tian Shan. Zhang, H.Y., et al. [1985,chi] 50-2003
- Loess sediment isotopic properties related to paleoclimate. Li, C.Y., et al. [1995,eng] 50-1555
- Loess-paleosol dating method. Zhu, Z.Y., [1995,eng] 50-1050
- Luminescence dating of the deglaciation in northern Sweden. Lundqvist, J., et al. [1995,eng] 50-515
- Magnetic analysis of glacialic sediment weathering. Walden, J., et al. [1995,eng] 50-6562
- Magnetic climatology: mineral magnetism and the ice ages. Heller, F., et al. [1996,ger] 50-4743
- Mammoth extinction: two continents and Wrangel Island. Martin, P.S., et al. [1995,eng] 50-650
- Margin of the last Barents-Kara ice sheet at Markhida, northern Russia. Tveranger, J., et al. [1995,eng] 50-2014
- Marine and glacial Quaternary deposits of the southern Sørkapp Land, Spitsbergen. Wojcik, A., et al. [1993,eng] 50-2215
- Marine record of deglaciation from the continental margin off Nova Scotia. Keigwin, L.D., et al. [1995,eng] 50-3001
- Method for the study of Quaternary environmental evolution of the loess plateau in China. Zhang, Z.H., et al. [1995,eng] 50-1045
- Mode of degradation of Pleistocene permafrost in West Siberia. Astakhov, V.I., [1995,eng] 50-507
- Moraine bank facies in Ireland. McCabe, A.M., et al. [1995,eng] 50-921
- Moraine dating supports Younger Dryas cooling event. Gosse, J.C., et al. [1995,eng] 50-1255
- Moraine types from the last glaciation in the Qinghai-Xizang Plateau. Liu, S.J., et al. [1994,eng] 50-4782
- Morphoscopy and morphometry of quartz grains from loess and buried soil layers. Velichko, A.A., et al. [1995,eng] 50-1038
- Near-shore Baltic ice lake deposits in Fakse Bugt, southeast Denmark. Bennike, O., et al. [1995,eng] 50-1798
- New indicator of glacial dispersal: lead isotopes. Bell, K., et al. [1995,eng] 50-1857
- New radiocarbon dates for the Vedde ash and the Saksunarvatn ash from western Norway. Birks, H.H., et al. [1996,eng] 50-4576
- Nomenclature applied to deposits formed in glacial and ice-contact environments. Hill, H.K., et al. [1996,eng] 50-5711
- Nonglacial interval in Canadian Pleistocene sediments. Hicock, S.R., et al. [1995,eng] 50-1087
- North Sea lithostratigraphy related to glacial isostasy. Ekman, S.R.R., [1995,eng] 50-6560
- Norwegian Sea Pleistocene ice-core indicators of climatic change. Sejrup, H.P., et al. [1995,eng] 50-6564
- Novel Pleistocene ice flow directions in Poland and Germany. Lagerlund, E., et al. [1995,eng] 50-509
- Numerical modelling of ice sheet fluctuation in the Russian Arctic. Siegert, M.J., et al. [1995,eng] 50-1800
- Numerical modelling of North Atlantic Quaternary sedimentation. Haupt, B.J., et al. [1995,eng] 50-750
- On ancient ice-sheet and ice age in the Tibetan Plateau. Xu, D.M., et al. [1995,chi] 50-5632
- On the definition of stratigraphical division boundaries in the Quaternary for the Scandinavian glaciated areas. Mojski, J.E., [1995,eng] 50-2610
- On the Quaternary paleoglacial action of the northern Tianshan. Zhang, H.Y., [1985,chi] 50-2001
- On the sedimentary environment in the northern piedmont of the eastern Tian Shan Mountains. Han, S.T., [1985,chi] 50-1999
- On the sedimentary environment of the glaciofluvial terraces of the Tian Shan Mountains near Urumqi. Han, S.T., [1985,chi] 50-2002
- Organic carbon in late Quaternary Arctic Ocean sediments. Schubert, C.J., [1995,ger] 50-2454
- Paleoclimate of the North Atlantic seaboard during the last glacial/interglacial transition. Lowe, J.J., et al. [1995,eng] 50-501
- Paleocryogenic analysis of loess-paleosol sequences. Velichko, A.A., et al. [1995,eng] 50-1036
- Paleoecology of two lake basins from Disko, West Greenland. Bennike, O., [1995,eng] 50-1081
- Paleoceanographic import of Norwegian Sea sediment stratigraphy. Rasmussen, T.L., et al. [1996,eng] 50-5222
- Paleoclimatic atmospheric chemical changes inferred from fossil leaf density. Beerling, D.J., et al. [1995,eng] 50-6563
- Paleoclimatic changes and glacier variations in Colombia. Thouret, J.C., et al. [1996,eng] 50-6706
- Paleoclimatic implications of Swedish lake-level fluctuations. Almquist-Jacobson, H., [1995,eng] 50-2716
- Paleoclimatic import of gravel deposits on a Chinese plateau. Liu, T.S., et al. [1996,eng] 50-5098
- Paleoclimatic reconstructions from antarctic volcanic ash deposits. Marchant, D.R., et al. [1996,eng] 50-4233
- Paleoclimatological significance of Quaternary diatom lake deposits in Qinghai-Xizang (Tibet). Li, J.Y., et al. [1994,eng] 50-1536
- Paleoecological implications of frost-shattered sediments on the Norwegian coast. Blikra, L.H., et al. [1995,eng] 50-2167
- Paleoecological implications of Patagonian Quaternary pollen diagrams. Heusser, C.J., [1995,eng] 50-2164
- Paleoenvironmental history of a Canadian freshwater lake. Hickman, M., et al. [1996,eng] 50-6696
- Paleogeographic implications of ostracod fauna in Karakorum Mountain lacustrine deposits. Li, Y.F., et al. [1994,eng] 50-1537
- Paleogeographical conditions of the degradation of Pleistocene frozen ground. Astakhov, V.I., [1990,rus] 50-1624
- Paleogeography of Cenozoic lithofacies and their evolution in the Qaidam Basin. Yang, Z.L., [1986,chi] 50-1982
- Paleohydrological changes in French mountains due to paleoclimatic changes. Magny, M., [1995,eng] 50-5038
- Paleomagnetic constraints on sedimentation rates in the eastern Arctic Ocean. Schneider, D.A., et al. [1996,eng] 50-6707
- Paleomagnetism of a glacialic sequence, South Australia. Schmidt, P.W., et al. [1995,eng] 50-411
- Palynology of the Quaternary glaciolacustrine deposits of Mount Xixia Bangma. Chen, S.M., et al. [1982,chi] 50-6604
- Parent materials of Wrangel Island. Oganessian, A.Sh., et al. [1995,eng] 50-1052
- Past and present glacial landforms of the central Qilian Shan. Lehmkuhl, F., [1995,ger] 50-6077
- Past glaciation and sea levels on Bjørnøya, Svalbard. Salvigsen, O., et al. [1995,eng] 50-4720
- Percentage of local rocks in fluvio-glacial deposits in central Poland. Krzeminski, T., et al. [1993,pol] 50-3662
- Periglacial elements in the geological structure and relief of northern Czerwocowa. Kobjek, S., [1990,pol] 50-4941
- Plankton ecosystems in the Norwegian and Greenland Sea. Samtleben, C., et al. [1995,eng] 50-749
- Pleistocene alipulation in northern Chile. Köt, A., et al. [1995,eng] 50-4947
- Pleistocene climatic changes in arctic marine atmospheres. Seidenkrantz, M.S., et al. [1996,eng] 50-5584
- Pleistocene geomorphology of Qinghai Lake, China. Nakao, K., et al. [1995,eng] 50-6717
- Pleistocene glacial history of the Svalbard area. Hebbeln, D., [1992,eng] 50-2558
- Pleistocene glacier thicknesses inferred from electron microscopy of till microtextures. Mahaney, W.C., [1995,eng] 50-3365
- Pleistocene lacustrine record of a Chinese lake. Rhodes, T.E., et al. [1996,eng] 50-5095
- Pleistocene mountain glacier fluctuation in Chile. Andersen, B.G., et al. [1995,eng] 50-516

Radar

Radar echoes

- Pleistocene slope deposits related to the Saint-Maurice Rhythmites, St. Lawrence Valley, Québec. Hétu, B., et al. [1995,fr] 50-4883
- Pleistocene stratigraphy in the Lappajärvi meteorite crater in Ostrobothnia, Finland. Salonen, V.P., et al. [1992,eng] 50-2556
- Pleistocene stratigraphy of the Athabasca River valley region, Rocky Mountains, Alberta. Levson, V.M., et al. [1995,eng] 50-5037
- Pleistocene termination in northern Eurasia. Velichko, A.A., [1995,eng] 50-505
- Pleistocene-Holocene fluxes are not the Earth's norm. Hay, W.W., [1994,eng] 50-1237
- Pleistocene-Holocene transition in Sweden. Lord, A.R., [1990,eng] 50-931
- Pollen assemblages from small Canadian arctic lakes. Gajewski, K., [1995,eng] 50-966
- Pollen content of Pleistocene deposits in the St. Lawrence Estuary. Clet, M., et al. [1995,fr] 50-4884
- Pre-Illinoian glacial stratigraphy in north-central Missouri. Rovey, C.W., III, et al. [1996,eng] 50-4585
- Preliminary study on fossil dunes in the Qaidam Basin. Zhong, D.C., [1986,chi] 50-1990
- Present and early Holocene foraminiferal distribution in eastern Svalbard. Hansen, A., et al. [1995,eng] 50-4718
- Primary division of Quaternary in Xinjiang. Yang, Z.X., et al. [1985,chi] 50-2004
- Problems in paleogeography and stratigraphy of the cold Warta stage in Poland. Klatkova, H., ed. [1993,pol] 50-3651
- Progress in glaciology and Quaternary glaciation research in China since 1978. Shi, Y.F., et al. [1995,eng] 50-4510
- Quaternary bryophyte palaeo-ecology. Birks, H.J.B., [1982,eng] 50-5414
- Quaternary eolian deposits at a salt lake in the Qaidam Basin. Wang, J.D., et al. [1986,chi] 50-1994
- Quaternary fluvio-morphological processes. Bibus, E., et al. [1995,eng] 50-2747
- Quaternary Fourier stratigraphy: orbital templates and Milankovitch anomalies. Berger, W.H., [1994,eng] 50-1066
- Quaternary geochronology using the U-Th-Pb method. Getty, S.R., et al. [1995,eng] 50-496
- Quaternary geology and cryogenic structure of Taymyr. Derevagin, A.I., et al. [1996,rus] 50-6375
- Quaternary geology and geomorphology of Mount Xixia Bangma region. Liu, D.S., et al. [1982,chi] 50-6602
- Quaternary geology and the last two glaciations in Alberta. Jackson, L.E., Jr., [1994,eng] 50-86
- Quaternary geology of the Buchans area, Newfoundland: implications for mineral exploration. Klassen, R.A., et al. [1996,eng] 50-6634
- Quaternary glacial in the Andes. Heine, K., [1995,eng] 50-4837
- Quaternary glaciation in the Karakoram and Himalayas. Derbyshire, E., [1996,eng] 50-5097
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Quaternary insects and their environments. Elias, S.A., [1994,eng] 50-2009
- Quaternary loess and stratigraphy in Inner Mongolia. Dong, G.R., et al. [1986,chi] 50-1991
- Quaternary of the loess plateau. Sun, J.Z., ed. et al. [1991,chi] 50-2010
- Quaternary periglacial conditions of a Himalayan river valley fill. Marh, B.S., et al. [1994,eng] 50-5548
- Quaternary processes in eastern China and international correlation. Yang, Z.G., et al. [1993,chi] 50-1843
- Quaternary record of eastern Svalbard—an overview. Landvik, J.Y., et al. [1995,eng] 50-4711
- Quaternary sea level history in the Northwest Territories, Canada. Kerr, D.E., [1996,eng] 50-6553
- Quaternary sedimentary processes and budgets in Orphan Basin, southwestern Labrador Sea. Hiscott, R.N., et al. [1996,eng] 50-4579
- Quaternary stratigraphy of the buried valleys of the lower Red Deer River, Alberta, Canada. Evans, D.J.A., et al. [1995,eng] 50-1080
- Quaternary terraces and related deposits in the western Wind River Basin, Wyoming. Jaworowski, C., [1993,eng] 50-702
- Radioactive dating of pollen deposits in a Swedish lake. Regnell, J., [1992,eng] 50-2562
- Radiocarbon balances of two Tibetan Lakes from 13,000 B.P. Fontes, J.C., et al. [1993,eng] 50-5027
- Radiocarbon date list VIII: Canada, Greenland, Iceland, and Antarctica. Manley, W.F., ed. et al. [1996,eng] 50-5927
- Radiocarbon dated common mussels *Mytilus edulis* from eastern Svalbard. Hjort, C., et al. [1995,eng] 50-4719
- Radiocarbon dating evidence for mammoths on Wrangel Island, Arctic Ocean, until 2000 B.C. Vartanian, S.L., et al. [1995,eng] 50-649
- Radiocarbon geochemistry of modern and ancient arctic lake systems, Baffin Island, Canada. Abbott, M.B., et al. [1996,eng] 50-5190
- Raised marine terraces on the western border of Petuniabukta, central Spitsbergen. Rygielski, W., et al. [1989,pol] 50-2886
- Rapid isotopic rebound in southwestern Iceland at the end of the last glaciation. Ingólfsson, O., et al. [1995,eng] 50-1802
- Relevance of thermoluminescence dating of Pleistocene loess to volcanic eruptive history. Berger, G.W., et al. [1995,eng] 50-2118
- Relict sub-thermokarst of the periglacial region in the Quaternary glaciation. Molodykh, I.I., [1996,rus] 50-6356
- Report on the Mount Xixia Bangma region scientific expedition. [1964,1982,chi] 50-6593
- Review of multi-proxy data for the Younger Dryas in Atlantic Canada. Mayle, F.E., et al. [1995,eng] 50-4624
- Rhythmic sedimentation in Glacial Lake Hitchcock, Massachusetts-Connecticut. Ashley, G.M., [1975,eng] 50-4820
- Role of principles and methods in loess-paleosol investigations. Pécsi, M., [1995,eng] 50-1035
- Salinity of Quaternary deposits in the western Yamal Peninsula. Lakhina, O.V., et al. [1983,rus] 50-314
- Sedimentary successions in Pleistocene ice-marginal lakes. Shaw, J., [1975,eng] 50-4819
- Sedimentology and geomorphology of drumlins in western Allgäu, south Germany. De Jong, M.C.G., et al. [1982,eng] 50-3381
- Sequence analysis of Canadian glaciolacustrine deposits. Martini, I.P., et al. [1995,eng] 50-1084
- Sequence types of Upper Quaternary deposits in the Kara Sea. Levitan, M.A., et al. [1995,eng] 50-3546
- Shrinking of Quaternary lakes and environmental changes on the Tibetan Plateau. Zhao, Y.T., [1994,eng] 50-4781
- Siberian future climate predictions. Volkova, V.S., et al. [1995,eng] 50-6584
- Simulation of Quaternary loess deposit magnetic profiles. Anderson, R.S., et al. [1996,eng] 50-4584
- Skógar Tephra, a Younger Dryas marker in North Iceland. Nordahl, H., et al. [1992,eng] 50-2548
- Slope valleys in glaciomarine sediments of the Gulf of Alaska. Carlson, P.R., et al. [1990,eng] 50-922
- Soil isotopic evidence of Quaternary atmospheric circulation variations in North America. Amundson, R., et al. [1996,eng] 50-2722
- Soil polygenesis as a function of Quaternary climate change, northern Great Basin, USA. Chadwick, O.A., et al. [1995,eng] 50-1831
- Some paleomagnetic study results in the Kuntze Lake region of the Qaidam Basin. An, Z.S., [1986,chi] 50-1993
- Some questions of the Pleistocene sedimentation of the Barents Sea shelf. Tarasov, G.A., [1993,eng] 50-2213
- Source of Quaternary deposits at the foot of the West Kunlun Mountains. Xinjiang. Zhu, L.P., [1994,eng] 50-1539
- Stratigraphy of redeposited fossils in Norwegian Pleistocene sediments. Vorren, T.O., et al. [1981,eng] 50-3625
- Stratigraphy of Yorkshire, England glacial deposits. Evans, D.J.A., et al. [1995,eng] 50-6213
- Structure of cryogenic sutura in the Arctic and the history of their development. Konishchev, V.N., [1990,rus] 50-1623
- Study on Quaternary moraine debris of Mount Xixia Bangma region. Zhang, S.Y., [1982,chi] 50-6603
- Succession in the Hudson Bay lowland, northern Ontario, Canada. Klinger, L.F., et al. [1996,eng] 50-5491
- Summary of Project IGCP-253. Lundqvist, J., et al. [1995,eng] 50-497
- Taku Glacier, southeast Alaska, U.S.A.: Late Holocene history of a tidewater glacier. Motyka, R.J., et al. [1996,eng] 50-4335
- Thermoluminescence ages of loess and associated sediments in central Nebraska, U.S.A. Pye, K., et al. [1995,eng] 50-2166
- Thermoluminescence dating of Alaskan Pleistocene tephra. Berger, G.W., et al. [1996,eng] 50-5188
- Till genesis through shear diffusion. Charbonneau, R., et al. [1995,eng] 50-3364
- Till provenance studies of Idaho paleoglaciators. Brugger, K.A., [1996,eng] 50-6245
- Valley bottoms in the late Quaternary. Schirmer, W., [1995,eng] 50-2748
- Vegetational history of western Alaska during the Wisconsin glacial interval and the Holocene. Ager, T.A., [1982,eng] 50-3372
- Ventifacts as palaeo-wind indicators in southern Scandinavia. Schlyter, P., [1996,eng] 50-6698
- Warming at 18,000 yr B.P. in the tropical Andes. Helmens, K.F., et al. [1996,eng] 50-5189
- Warta Glaciation (stage) within the Widawka drainage basin and the Bołchatów mine. Baraniecka, M.D., [1993,pol] 50-3652
- Water fern residue as Chilean paleoclimatic indicator. Heusser, C.J., et al. [1996,eng] 50-5488
- Weichselian chronostratigraphy and correlations. Möner, N.A., [1981,eng] 50-3624
- Weichselian glaciation in Svalbard before 15,000 B.P. Salvgisen, O., et al. [1981,eng] 50-3623
- West Siberian Quaternary stratigraphy. Arkhipov, S.A., et al. [1994,eng] 50-1210
- Wutach gorge in SW Germany: late Würmian (periglacial) downcutting versus Holocene processes. Einsele, G., et al. [1995,eng] 50-2750
- Younger Dryas end moraines in Finland and NW Russia. Raimio, H., et al. [1995,eng] 50-514
- Younger Dryas ice-marginal deposits in Norway. Andersen, B.G., et al. [1995,eng] 50-511
- Younger Dryas ice-marginal zone in Sweden. Lundqvist, J., [1995,eng] 50-512
- Younger Dryas margin of the Scandinavian ice sheet—an introduction. Andersen, B.G., et al. [1995,eng] 50-510
- Radar**
- 1971 performance survey of DEW Line ice cap stations DYE-2 and DYE-3. Flax, D., et al. [1971,eng] 50-5756
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1995,eng] 50-4247
- Ground-penetrating radar investigation of the proposed dome-CARA tunnel route (South Pole Station). Arcone, S.A., et al. [1995,eng] 50-4543
- Measuring snow particle size from video radar images. Hatanaka, M., et al. [1995,eng] 50-2579
- See [also]: Airborne radar; Side looking radar; Synthetic aperture radar
- Radar echoes**
- ALOMAR—a new facility for middle atmosphere research at arctic latitudes. Thrane, E.V., et al. [1995,eng] 50-4261
- Altimeter retracking algorithm accuracy for Greenland ice sheet growth. Davis, C.H., [1995,eng] 50-980
- Attenuation of microwaves by spherical hail. Battan, L.J., et al. [1986,eng] 50-4639
- Backscattering radar measurements of spherical ice cloud crystals. Prodi, F., et al. [1996,eng] 50-4502
- Backscattering through the melting layer of precipitation. Russchenberg, H.W.J., et al. [1996,eng] 50-2699
- Bidirectional reflectance measurements of two snow types. Taylor, S., et al. [1995,eng] 50-3113
- Bistatic scattering of radiowaves by a melting layer of precipitation. Zhang, W., et al. [1996,eng] 50-6335
- C-band backscatter measurements of winter sea-ice in the Weddell Sea, Antarctica. Drinkwater, M.R., et al. [1995,eng] 50-1817
- Classification of hailstorm systems in north China and the characteristics of hailstorm cells. Yang, P.C., et al. [1983,eng] 50-4095
- Cloud structure derived from remote sensing measurements. Sassen, K., [1984,eng] 50-4921
- Comment on paper by Papatsonis et al. Hill, S.C., et al. [1996,eng] 50-6336
- Comparison of ice-sheet satellite altimeter retracking algorithms. Davis, C.H., [1996,eng] 50-2703
- Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar. Zeng, X.X., et al. [1995,eng] 50-1804
- Correction of satellite radar altimetry of antarctic ice sheets. Cooper, A.P.R., et al. [1996,eng] 50-5073
- Corrections to paper by Shi et al. Shi, J.C., et al. [1995,eng] 50-1834
- DEM corrected ERS-1 SAR data for snow monitoring. Guneriusson, T., et al. [1996,eng] 50-3149
- Detection and prediction of hail with Meteosat data. Messmer, B., et al. [1995,ger] 50-2539
- Detection of weakly precipitating winter clouds by a NOAA 404-MHz wind profiler. Orr, B.W., et al. [1996,eng] 50-5164
- Doppler radar analysis of a severe spring snowstorm. Shields, M.T., et al. [1993,eng] 50-5250
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1996,eng] 50-5810
- Dual polarization radar observations of thunderclouds in winter season. Sonoi, Y., et al. [1995,eng] 50-4258
- Dual wavelength radar observations of precipitation clouds. Iwanami, K., [1995,jpn] 50-607
- Electric fields and charges near 0°C in stratiform clouds. Shepherd, T.R., et al. [1996,eng] 50-5821
- Electrification of thunderstorm cells during cloud ice formation. Ramachandran, R., et al. [1996,eng] 50-3020
- Electrodynamics of the upper atmosphere and radio aurora in the northern polar cap. Kustov, A.V., et al. [1994,eng] 50-1964
- ERS-1 altimetry on the Greenland ice sheet: preliminary investigations of annual variations. Andersen, O.B., [1994,eng] 50-5033
- ERS-1 SAR wind vector data from the Norwegian continental shelf. Wackerman, C.C., et al. [1994,eng] 50-1511
- Estimating sea ice thickness from impulse radar sounding time of flight data. Kovacs, A., et al. [1992,eng] 50-61
- Estimation of ice hydrometeor types and shapes from radar polarization measurements. Matrosov, S.Y., et al. [1995,eng] 50-3609
- Expert system for automated interpretation of ground penetrating radar data. Lee, S., et al. [1992,eng] 50-62
- Field observations of microwave backscatter from Weddell Sea ice. Lytle, V.I., et al. [1996,eng] 50-3148
- Finger-shaped echoes of hailstorm and the possible mechanism of their formation. Ma, Z.H., et al. [1983,eng] 50-4096
- Frontal signals east of Iceland from the GEOSAT altimeter. Robinson, A.R., et al. [1989,eng] 50-4707
- Ground penetrating radar detection of a buried metallic object. O'Neill, K., et al. [1996,eng] 50-4038
- Ground penetrating radar investigations of massive ground ice. Dallimore, S.R., et al. [1992,eng] 50-56
- Ground penetrating radar monitoring of permafrost along the Norman Wells pipeline. Moorman, B.J., et al. [1994,eng] 50-5590
- Ground penetrating radar sounding of bedrock under a frozen lake. Davis, J.L., et al. [1992,eng] 50-57
- Ground penetrating radar. Pilon, J.A., ed. [1992,eng] 50-54
- Ground probing radar investigation of permafrost in northern Quebec. Pilon, J.A., et al. [1992,eng] 50-65
- Ground-based radar for measuring snowfall rate. Houck, R.E., et al. [1995,eng] 50-3109
- Ground-based remote sensing of cloud ice particle sizes. Matrosov, S.Y., et al. [1995,eng] 50-3257
- Ground-penetrating radar investigation of the proposed dome-CARA tunnel route (South Pole Station). Arcone, S.A., et al. [1995,eng] 50-4543

Radar photography

Radiation absorption

- Hailstorms in Switzerland: left movers, right movers, and false hooks. Houze, R.A., Jr., et al. [1993,eng] 50-1444
- Heat budget of a midlatitude squall line and implications for potential vorticity production. Braun, S.A., et al. [1996,eng] 50-5475
- Helicopter-borne alpine glacier surveys using short pulse radar. Arcone, S.A., et al. [1992,eng] 50-55
- Ice content retrieval from clouds using Doppler radar. Sauvageot, H., [1996,eng] 50-2772
- Impulse radar studies of interface roughness. Jezek, K.C., et al. [1992,eng] 50-60
- Internal layer folding patterns from radar studies of ice streams B and C. Jacobel, R.W., et al. [1994,eng] 50-1892
- Laboratory study of microwave backscattering from saline ice. Porco, R.L., [1994,eng] 50-683
- Limiting resolution of ice-sheet elevations derived from pulse-limited satellite altimetry. Wingham, D.J., [1995,eng] 50-461
- Mapping the architecture of glaciofluvial sediments with three-dimensional georadar. Beres, M., et al. [1995,eng] 50-2529
- Measurement of ice-sheet topography using satellite-radar interferometry. Joughin, I., et al. [1996,eng] 50-4887
- Measuring a moving glacier. Sauber, J., et al. [1995,eng] 50-3355
- Measuring geophysical parameters of the Greenland ice sheet using airborne radar altimetry. Ferraro, E.J., et al. [1995,eng] 50-1881
- Mesoscale and microscale structure of a severe ice pellet storm. Hanesiak, J.M., et al. [1995,eng] 50-1526
- Mesoscale precipitation structure in winter storms. Ramamurthy, M.K., et al. [1991,eng] 50-4417
- Mesoscale structures along wind-parallel bands in lake-effect snows. Kristovich, D.A.R., [1993,eng] 50-5249
- Microprocessor based ice-radar system for surface profiling. Jacobel, R.W., et al. [1992,eng] 50-59
- Microwave imaging of Labrador Sea thin sea ice. Collins, M.J., et al. [1996,eng] 50-2701
- Millimetric radar backscatter from snowcover. Williams, L.D., et al. [1987,eng] 50-6200
- Model to retrieve precipitation rate profiles from airborne radar and radiometer measurements. Weinman, J.A., et al. [1992,eng] 50-3571
- Modeling of backscattering by non-spherical ice particles for the interpretation of cloud radar signals at 94 GHz. An error analysis. Okamoto, H., et al. [1995,eng] 50-3101
- Modeling of snow reflectance in the visible and near infrared. Leroux, C., et al. [1995,fr] 50-4672
- New look at the melting layer. Drummond, F.J., et al. [1996,eng] 50-4145
- Observation of snowfall and airflow over a low mountain barrier. Nakai, S., et al. [1995,eng] 50-341
- Picking out the pack ice from the air [1989,eng] 50-5645
- Polarimetric detection of objects buried in snowpack by a synthetic aperture FM-CW radar. Yamaguchi, Y., et al. [1996,eng] 50-2700
- Polarimetric radar at attenuated wavelengths as a hydrological sensor. Sauvageot, H., [1996,eng] 50-5166
- Potential of using spaceborne millimeter wavelength radar for ice cloud studies. Matrosov, S.Y., et al. [1994,eng] 50-1113
- Precipitation hydrometeor characterization by a CW Doppler radar. Duvernoy, J., et al. [1996,eng] 50-5165
- Probing ice sheets with imaging radar. Raney, R.K., [1993,eng] 50-3033
- Processing of Doppler weather radar data. Iwanami, K., et al. [1995,jpn] 50-608
- Production and depletion of supercooled liquid water in a Colorado winter storm. Politovich, M.K., et al. [1995,eng] 50-3560
- Radar and radiation properties of ice clouds. Atlas, D., et al. [1995,eng] 50-1246
- Radar echoes from winter monsoon clouds in Hokkaido. Kobayashi, F., et al. [1992,eng] 50-6645
- Radar image tracking and its use in a short-term snowfall prediction system. Neillley, P.P., et al. [1993,eng] 50-5248
- Radar investigations of firm structures and crevasses. Glover, J.M., et al. [1992,eng] 50-58
- Radar measurements of melt zones on the Greenland ice sheet. Jezek, K.C., et al. [1994,eng] 50-4804
- Radar observation of cloud electrification during thunderstorms. Jameson, A.R., et al. [1996,eng] 50-3965
- Radar observation of ice crystal orientation in thunderstorms. Caylor, J.J., et al. [1996,eng] 50-5684
- Radio wave scattering from melting snow particles. Zhang, W., et al. [1996,eng] 50-6622
- Reflection coefficient in microwave propagation over snow-covered terrain. Suzuki, M., [1996,eng] 50-3942
- Rocket flight cloud seeding during hail suppression experiments. Lacaux, J.P., et al. [1995,eng] 50-4971
- Role of spaceborne millimeter-wave radar in the global monitoring of ice cloud. Brown, P.R.A., et al. [1995,eng] 50-1247
- Saline ice sheet surface scattering with controlled roughness parameters. Bredow, J.W., et al. [1995,eng] 50-982
- Search for proxy indicators of young sea ice thickness. Zabel, I.H.H., et al. [1996,eng] 50-4303
- Sensor mapping of arctic wetland distribution. Morrissey, L.A., et al. [1996,eng] 50-4764
- Snow accumulation rate from synthesis of microwave and altimeter data. Davis, C.H., [1995,eng] 50-162
- Snow identification from radar wind profiler spectra. Ralph, F.M., et al. [1996,eng] 50-5163
- Snowfall generated by surface topographic effects upon wind direction. Wesley, D.A., et al. [1995,eng] 50-1079
- Some characteristics of hail cloud formation processes in Xiyang area. Wang, A.S., et al. [1983,eng] 50-4098
- Some research on the development of hail cloud. Wang, A.S., et al. [1983,eng] 50-4097
- Space data from scientific projects. Harries, J.E., [1991,eng] 50-4094
- Spectra of polar mesospheric noctilucent cloud ice nuclei. Sugiyama, T., et al. [1996,eng] 50-4255
- Studies of the polar middle and lower atmosphere by an MST radar on Svalbard. Rötger, J., et al. [1995,eng] 50-4262
- Sub-surface melting in a seasonal snow cover. Koh, G., et al. [1995,eng] 50-1869
- Submillimeter wave attenuation in falling snow. Suzuki, M., et al. [1979,jpn] 50-3940
- Theoretical aspects of modeling backscattering by cirrus ice particles at millimeter wavelengths. Schneider, T.L., et al. [1995,eng] 50-3261
- Unique aircraft icing event—a case study. Peters, J.L., [1990,eng] 50-4404
- Validation of backscatter models for level and deformed sea-ice in ERS-1 SAR images. Carlström, A., et al. [1995,eng] 50-1811
- Waveform model for surface and volume scattering from ice and snow. Newkirk, M.H., et al. [1996,eng] 50-3886
- Radar photography**
- 3.5-cm radar investigation of Mars and Mercury: planetological implications. Butler, B.J., [1994,eng] 50-690
- Changes in the configuration of ice stream flow from the West Antarctic ice sheet. Jacobel, R.W., et al. [1996,eng] 50-4360
- Probing ice sheets with imaging radar. Raney, R.K., [1993,eng] 50-3033
- Remote sensing ice detection capabilities—East Coast. Rossiter, J.R., et al. [1995,eng] 50-1412
- Retrieval of thin ice thickness from multifrequency polarimetric SAR data. Kwok, R., et al. [1995,eng] 50-349
- Satellite radar observations of Beaufort Sea autumn freeze-up. Weinbrenner, D.P., et al. [1996,eng] 50-6218
- Radar reflections**
- See [also]: Radar echoes
- Radar tracking**
- Automatic ice motion retrieval from ERS-1 SAR images using the optical flow method. Sun, Y., [1996,eng] 50-5824
- Charting movement of sea ice by satellite. Carsey, F., [1995,eng] 50-715
- Cloud observations with a polarimetric 33 GHz and 95 GHz radar. Sekelsky, S.M., et al. [1996,eng] 50-4601
- Demonstration of operational sea-ice monitoring in the Baltic Sea with ERS-1 SAR. Herland, E.A., et al. [1995,eng] 50-1820
- Doppler radar observation of vortex-type snowstorm in Hokkaido. Shirooka, R., et al. [1994,eng] 50-6041
- Dual multiparameter radar observations of intense convective storms. Bringi, V.N., et al. [1996,eng] 50-4597
- Dual wavelength radar observations of precipitation clouds. Iwanami, K., [1995,jpn] 50-607
- IceNav shipboard radar integration. Marton, C., [1995,eng] 50-4042
- Least average residual algorithm (LARA) for tracking the motion of arctic sea ice. Peddada, S.D., et al. [1996,eng] 50-5686
- Mesoscale and microscale characteristics of a CASP II severe ice pellet storm. Hanesiak, J.M., [1994,eng] 50-4170
- Meteorological research applications of mm-wave radar. Kropfli, R.A., et al. [1996,eng] 50-4600
- Processing of Doppler weather radar data. Iwanami, K., et al. [1995,jpn] 50-608
- Radar echoes from winter monsoon clouds in Hokkaido. Kobayashi, F., et al. [1992,eng] 50-6645
- Radar observation of cloud ice crystal alignment to predict lightning. Krebbiel, P., et al. [1996,eng] 50-4599
- Radar study of the evolution of a lightning producing storm. Carey, L.D., et al. [1996,eng] 50-4598
- Remote sensing of oil spills. Fingas, M.F., [1990,eng] 50-473
- Radiance**
- Airborne imaging microwave radiometer—part I: radiometric analysis. Collins, M.J., et al. [1996,eng] 50-4763
- Antarctic cloud scattering depth using ground-based radiometry. Ricciuzzi, P., et al. [1995,eng] 50-1335
- Cirrus infrared parameters and shortwave reflectance relations from observations. Spinhirne, J.D., et al. [1995,eng] 50-5162
- Cloud attenuation of ultraviolet radiation in alpine regions. Blumhaller, M., et al. [1996,eng] 50-3610
- Detection of polar stratospheric clouds with ERS-2/GOME data. Meerkotter, R., [1995,eng] 50-2150
- Downwelling radiation flux at continental surfaces. Garratt, J.R., et al. [1996,eng] 50-5018
- Downwelling radiation fluxes at the arctic surface based on parameterizations. Silcox, R.A., [1994,eng] 50-5303
- Estimating the vertical dimension of convective cloudiness over the polar ocean from AVHRR data. Mantschke, A., [1992,eng] 50-220
- Evaluation of surface radiative flux parameterizations for use in sea ice models. Key, J.R., et al. [1996,eng] 50-3451
- Freshwater impact on Hudson bay ecosystems under sea ice, pt. 3. Fortier, L., et al. [1996,eng] 50-4021
- Incorporating airborne data into the spatial model used to estimate snow water equivalent. Carroll, S.S., et al. [1993,eng] 50-5146
- Light scattering by hexagonal ice prisms. 1. Small scattering angles. Petrushin, A.G., [1994,eng] 50-2709
- Modeling of backscattering by non-spherical ice particles for the interpretation of cloud radar signals at 94 GHz. An error analysis. Okamoto, H., et al. [1995,eng] 50-3101
- Radiative properties of cirrus clouds derived from surface interferometric measurements. Beck, G.H., et al. [1996,eng] 50-6569
- Radiative properties of finite inhomogeneous cirrus clouds: Monte Carlo simulations. Chylek, P., et al. [1995,eng] 50-1471
- Radiometry of cirrus cloud optical depths and ice crystal sizes. Ou, S.C., et al. [1995,eng] 50-3258
- Reduction of weather effects in the calculation for sea-ice concentration with the DMSP SSM/I. Cavalieri, D.J., et al. [1995,eng] 50-1867
- SAM II aerosol measurements during the 1989 AASE. Osborn, M.T., et al. [1990,eng] 50-5992
- Sea-ice velocity fields estimation on Ross Sea with NOAA-AVHRR. Moctezuma Flores, M., et al. [1995,eng] 50-983
- Snow recognition and classification using ISOMIX. Li, L.X., et al. [1994,eng] 50-3999
- Spectrometry of atmospheric emission over the South Pole. Van Allen, R., et al. [1996,eng] 50-4328
- Steep latitudinal gradient of solar ultraviolet-B radiation in the arctic-alpine life zone. Caldwell, M.M., et al. [1980,eng] 50-1410
- Surface temperature from ERS-1 ATSR infrared thermal satellite data in polar regions. Stroeve, J., et al. [1996,eng] 50-6568
- Surface-based studies of microwave arctic sea ice signatures during end of summer and early autumn. Darovskikh, A.N., [1995,eng] 50-2065
- Ultraviolet (A) and short-wave radiation on the Juneau Icefield, Alaska. Quakenbush, T., et al. [1992,eng] 50-363
- Radiant cooling**
- Field observations of sun crust formation in Hokkaido, Japan. Ozeki, T., et al. [1996,eng] 50-5500
- Forecasting earth surface temperature for the optimal application of frost protection methods. Krasovitski, B., et al. [1996,eng] 50-5021
- Observations of 'freezing-induced redistribution' in soil lysimeters. Butler, A.P., et al. [1996,eng] 50-6082
- Paramo microclimate and leaf thermal balance of Andean giant rosette plants. Meinzer, F.C., et al. [1994,eng] 50-3046
- Radiation frost susceptibility and the association between sky exposure and leaf size. Jordan, D.N., et al. [1995,eng] 50-2132
- Simulation of arctic stratospheric response to aerosol perturbations. Zhao, X.P., et al. [1996,eng] 50-6680
- Simulation of foam protection of plants against frost. Krasovitski, B., et al. [1995,eng] 50-961
- Swedish forest production losses due to summer frost. Verwijst, T., et al. [1996,eng] 50-6753
- Thermal regime of ice covered Swedish lakes. Bengtsson, L., et al. [1994,eng] 50-5696
- Radiant heating**
- Coil freezing: what a relief. Jacobs, T.L., [1995,eng] 50-2458
- Ground-coupled heat pumps. Phetteplace, G., [1995,eng] 50-2465
- Heat transfer of air flow between inclined plates of a solar collector. Ali, A.H.H., et al. [1996,eng] 50-6478
- Nuclear energy for district heating. Bodh, R.M., [1984,eng] 50-3163
- Paleoclimate data constraints on climate sensitivity: the paleocalibration method. Covey, C., et al. [1996,eng] 50-4150
- Possibilities for industrial cooperation concerning district heating technology. Juvonen, O.A., [1984,eng] 50-3161
- Proceedings. International Conference on Engineering and Development in Northern Regions, Sapporo, Japan, Jan. 31-Feb. 2, 1983. [1984,eng] 50-3158
- Radiative effects of polar stratospheric clouds. Kinne, S., et al. [1990,eng] 50-5986
- Radiative heating rates during the Airborne Arctic Stratospheric Expedition. Rosenfield, J.E., et al. [1990,eng] 50-5981
- Solar heating of the arctic mixed layer. Maykut, G.A., et al. [1995,eng] 50-2775
- Thermospheric neutral winds at Watson Lake, Yukon Territory. Niciejewski, R.J., et al. [1996,eng] 50-6683
- Radiation**
- Atmospheric heat budget seasonal variations in 1988. Okada, I., et al. [1995,eng] 50-2581
- First data and future prospects for AMANDA, the antarctic muon and neutrino detector. AMANDA Collaboration, [1994,eng] 50-5215
- Meteorological observations at Showa Station by JARE-33 in 1992. Matsuhara, K., et al. [1995,jpn] 50-4554
- Radiation exposure rate over the antarctic ice sheet. Nakajima, T., et al. [1995,eng] 50-3416
- Trends in the development of radiation-protective polymer composite materials. Pavlenko, V.I., et al. [1995,rus] 50-3440
- See [also]: Gamma irradiation; Infrared radiation; Light (visible radiation); Microwaves; Neutron irradiation; Radio waves; Solar radiation; Infrared radiation; Ultraviolet radiation
- Radiation absorption**
- Accelerator mass spectrometry: new applications. Synal, H.A., [1995,eng] 50-2309
- Adsorption and photochemistry of dinitrogen tetroxide on low temperature ice layers. Rieley, H., et al. [1996,eng] 50-4295

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Radio echo soundings

- Airborne measurements of stratospheric constituents over the Arctic in the winter of 1989. Mankin, W.G., et al. [1990,eng] 50-6006
- Antarctic muon and neutrino detector AMANDA: first data and outlook. Lynch, J., et al. [1995,eng] 50-6742
- Atmospheric absorption of solar radiation due to ice clouds. Gautier, C., [1995,eng] 50-957
- Chemical sputtering could produce sodium vapor and ice on Mercury. Potter, A.E., [1995,eng] 50-3093
- Cold acclimation of arctic grass photosynthetic apparatus. Koroleva, O.I.A., [1996,eng] 50-6755
- Detection and monitoring of H₂O and CO₂ ice clouds on Mars. Bell, J.F., III, et al. [1996,eng] 50-5195
- Determination of snowmelt factor in the Himalayan region. Singh, P., et al. [1996,eng] 50-5705
- Diode laser humidity sensor for cold environments. Phase II final technical report. Silver, J.A., et al. [1991,eng] 50-4525
- Downwelling radiation fluxes at the arctic surface based on parameterizations. Silcox, R.A., [1994,eng] 50-5303
- Effect of color and texture on the surface temperature of asphalt concrete pavements. Berg, R.L., [1985,eng] 50-4362
- Effect of microclimate on road superstructures. Final report. Dysli, M., et al. [1986,fre] 50-3320
- Effect of X-radiation on the plastic deformation of ice. Hu, X.H., et al. [1996,eng] 50-5866
- Effects of enhanced UV-B radiation on the growth of dwarf shrubs in a subarctic heathland. Johanson, U., et al. [1995,eng] 50-3618
- Electron-beam-induced amorphization of ice III or IX obtained by high-pressure freezing. Sartori, N., et al. [1996,eng] 50-6531
- Evidence of arctic-wide atmospheric aerosols from DMSP visible imagery. Shine, K.P., et al. [1984,eng] 50-4494
- Fall phytoplankton biomass, P-I relationships and primary production in the Weddell Sea. Dower, K.M., et al. [1996,eng] 50-4008
- Feasibility of infrared sensing of Martian cloud and surface ices. Johnson, B.R., et al. [1996,eng] 50-3865
- Field observations of sun crust formation in Hokkaido, Japan. Ozeki, T., et al. [1996,eng] 50-5500
- Ice cloud microphysics in a general circulation model, pt.2. Fowler, L.D., et al. [1996,eng] 50-5016
- Ice plate absorption of infrared radiation. Popov, A.A., et al. [1994,eng] 50-1284
- Influence of forest fire aerosols on sampling of polar atmospheres. Polissar, A.V., et al. [1996,eng] 50-5206
- Infrared absorption coefficients of gaseous chlorine nitrate at 296 K. Tuazon, E.C., et al. [1989,eng] 50-4709
- Laboratory comparisons of organic materials to interstellar dust and the Murchison meteorite. Pendleton, Y.J., [1995,eng] 50-3025
- Light scattering by absorbing hexagonal ice crystals in cirrus clouds. Zhang, J.Y., et al. [1995,eng] 50-984
- Modeling the heating and melting of sea ice through light absorption by microalgae. Zeebe, R.E., et al. [1996,eng] 50-2844
- Near UV polar stratospheric absorption measurements. Wahner, A., et al. [1990,eng] 50-6012
- Near-infrared absorption coefficients of solid nitrogen as a function of temperature. Tryka, K.A., et al. [1995,eng] 50-1078
- Neutral and ionized PAHs: contribution to the interstellar extinction. Salama, F., et al. [1995,eng] 50-3021
- New laser plasma source for extreme-ultraviolet lithography. Jin, F., et al. [1995,eng] 50-3678
- O₂ on Ganymede: spectral characteristics and plasma formation mechanisms. Calvin, W.M., et al. [1996,eng] 50-4256
- Observation of a new absorption band of HOBr and its atmospheric implications. Barnes, R.J., et al. [1996,eng] 50-3968
- Observation of Fano interference in high-pressure ice VII. Aoki, K., et al. [1996,eng] 50-3337
- Observational and theoretical studies of solar radiation in arctic stratus clouds. Herman, G.F., et al. [1984,eng] 50-4913
- Observations of molecular ices. Whittet, D.C.B., [1993,eng] 50-3363
- On the age vs depth and optical clarity of deep ice at the South Pole. AMANDA Collaboration, [1995,eng] 50-1866
- Paramo microclimate and leaf thermal balance of Andean giant rosette plants. Meinzer, F.C., et al. [1994,eng] 50-3046
- Photochemistry of Triton's atmosphere and ionosphere. Krasnopolsky, V.A., et al. [1995,eng] 50-2121
- Polar stratospheric radiation absorption measurements, pt.2. Schiller, C., et al. [1990,eng] 50-6013
- Polar stratospheric radiation absorption measurements, pt.3. Wahner, A., et al. [1990,eng] 50-6016
- Radiation chemistry of ices of planetological interest at low temperature. Strazzulla, G., [1995,eng] 50-654
- Radiative properties of finite inhomogeneous cirrus clouds: Monte Carlo simulations. Čihálek, P., et al. [1995,eng] 50-1471
- Reactivity of imidazoles in pulse and γ -irradiated liquid and frozen systems. Kalciciska, E., et al. [1996,eng] 50-3527
- Refractive index of ice in the 1.4-7.8- μ m spectral range. Gosse, S., et al. [1995,eng] 50-3358
- Scavenging of electrons and radicals in frozen chloride-alcohol glasses. Kalciciska, J., [1996,eng] 50-3526
- Simulation of extraterrestrial ice radiation absorption properties. Schutte, W.A., et al. [1995,eng] 50-3023
- Snow algae microbiology related to ultraviolet radiation effects. Thomas, W.H., et al. [1995,eng] 50-2814
- Spectra of nitrogen component of ices in cosmic dust. Whittet, D.C.B., et al. [1996,eng] 50-6210
- Spectral quality and absorption of solar radiation in a mountain birch forest. Abisko, Sweden. Ovhed, M., et al. [1995,eng] 50-2813
- Spectrometry of atmospheric emission over the South Pole. Van Allen, R., et al. [1996,eng] 50-4328
- Spectroscopic damage to hydrated specimens in vitreous ice. Leapman, R.D., et al. [1995,eng] 50-1648
- Spectroscopic study of heavy ozone isotopes in the arctic atmosphere. Meier, A., et al. [1996,eng] 50-3550
- Spectroscopy of photolysis in frozen solution systems. Yamachi, S., et al. [1993,eng] 50-1467
- Sputtering of water ice surfaces and the production of extended neutral atmospheres. Shi, M., et al. [1995,eng] 50-2774
- Study of H₂O contamination on a cooled optical surface. Guo, Q., et al. [1995,eng] 50-6527
- Study of ice spectra in cosmic dust. Brooke, T.Y., et al. [1996,eng] 50-3964
- Sub-surface melting in a seasonal snow cover. Koh, G., et al. [1995,eng] 50-1869
- Thickness determination of a water film on dye-doped ice by fluorescence spectroscopy. Strausky, H., et al. [1996,eng] 50-3967
- Ultratransparent antarctic ice as a supernova detector. Halzen, F., et al. [1996,eng] 50-6323
- Ultraviolet (A) and short-wave radiation on the Juneau Icefield, Alaska. Quakenbush, T., et al. [1992,eng] 50-363
- Ultraviolet radiation effects on arctic lake water organic chemistry. Scully, N.M., et al. [1996,eng] 50-5820
- UV-B-tolerance of alpine and arctic *Daphnia*. Zellmer, I.D., [1995,eng] 50-1972
- Radiation balance**
- Approaches to mathematical modeling of the steppe-tundra paleoclimate. Gal-Chen, T., [1982,eng] 50-3379
- Atmospheric absorption of solar radiation due to ice clouds. Gautier, C., [1995,eng] 50-957
- Background stratospheric aerosol and polar stratospheric cloud reference models. McCormick, M.P., et al. [1996,eng] 50-6712
- Characteristics of the meteorological regime of glaciers in Upper Svanetia during ablation. Voloshina, A.P., et al. [1972,rus] 50-525
- Climatic features near the Tanggula Pass in the centre of the Tibetan Plateau. Zhang, Y.S., et al. [1995,eng] 50-4513
- Climatic implications of ice microphysics. Liou, K.N., [1995,eng] 50-958
- Clouds and snowmelt on the North Slope of Alaska. Zhang, T., et al. [1996,eng] 50-5284
- Digital terrain model of topographic obstruction to solar radiation in the Tian Shan. Li, X., et al. [1995,chi] 50-3997
- Disposition of solar radiation in sea ice and the upper ocean. Ebert, E.E., et al. [1995,eng] 50-572
- Downwelling radiation flux at continental surfaces. Garratt, J.R., et al. [1996,eng] 50-5018
- Downwelling radiation fluxes at the arctic surface based on parameterizations. Silcox, R.A., [1994,eng] 50-5303
- Effect of volcanic aerosols on ultraviolet radiation in Antarctica. Tsitas, S.R., et al. [1996,eng] 50-3066
- Energy characteristics of a mountain-glacier basin (in the example of the Aktru basin). Belova, N.I., [1973,rus] 50-425
- Estimation of surface albedo from NOAA AVHRR data in high latitudes. Laine, V., et al. [1996,eng] 50-5870
- Evaluation of surface radiative flux parameterizations for use in sea ice models. Key, J.R., et al. [1996,eng] 50-3451
- Evidence of arctic-wide atmospheric aerosols from DMSP visible imagery. Shine, K.P., et al. [1984,eng] 50-4494
- Ice cloud microphysics in a general circulation model, pt.2. Fowler, L.D., et al. [1996,eng] 50-5016
- Ice cloud microphysics in a general circulation model, pt.3. Fowler, L.D., et al. [1996,eng] 50-5017
- Ice plate absorption of infrared radiation. Popov, A.A., et al. [1994,eng] 50-1284
- Infrared radiometry of optical thickness of clouds in the Arctic. Stammer, K., et al. [1996,eng] 50-5283
- Inter-annual variation in the radiation and turbulent flow in the Barents, Norwegian and Greenland seas. Giriduk, G.V., [1992,rus] 50-1270
- Land surface studies and atmospheric effects by satellite microwave radiometry. Aschbacher, J., [1990,eng] 50-6691
- Mechanisms of direct and indirect climate forcing by aerosols in the arctic region. Blanchet, J.P., [1995,eng] 50-1642
- Model of cloudiness evolution in cirrus cloud masses. Khvorostanov, V.I., [1995,eng] 50-4749
- Modeling the summertime arctic cloudy boundary layer. Curry, J.A., et al. [1996,eng] 50-5275
- Observational and theoretical studies of solar radiation in arctic stratus clouds. Herman, G.F., et al. [1984,eng] 50-4913
- Overview of the Arctic Ocean Expedition of 1991 (IAOE-91). Leck, C., et al. [1996,eng] 50-4312
- Parameterization of clouds and radiation in climate models. Roeckner, E., [1995,eng] 50-959
- Physical climatology of alpine tundra, Scout Mountain, British Columbia, Canada. Saunders, I.R., et al. [1996,eng] 50-4235
- Potential of using spaceborne millimeter wavelength radar for ice cloud studies. Matrosov, S.Y., et al. [1994,eng] 50-1113
- Proceedings. Atmospheric Radiation Measurement (ARM) Science Team Meeting, 5th, San Diego, CA, Mar. 19-23, 1995, [1996,eng] 50-5274
- Radar and radiation properties of ice clouds. Atlas, D., et al. [1995,eng] 50-1246
- Radiation conditions on the Greenland ice sheet. Konzelmann, T., [1994,eng] 50-69
- Radiative characteristics in forest during snowmelt season. Nakabayashi, H., et al. [1996,jpn] 50-4936
- Radiative fluxes and their impact on the energy balance of the Greenland ice sheet. Konzelmann, T., et al. [1995,eng] 50-1871
- Radiative properties of snow for clear sky solar radiation. Choudhury, B.J., [1979,eng] 50-3955
- Radiative transfer in atmosphere-sea ice-ocean system. Jin, Z., et al. [1996,eng] 50-5276
- Radiometry of cirrus cloud optical depths and ice crystal sizes. Ou, S.C., et al. [1995,eng] 50-3258
- Rapid calculation of direct radiation on sloping fields. Wang, J., et al. [1995,chi] 50-5629
- Relation between scattering coefficient and radiation flux over land-fast sea ice. Barber, D.G., et al. [1995,eng] 50-1816
- Role of spaceborne millimeter-wave radar in the global monitoring of ice cloud. Brown, P.R.A., et al. [1995,eng] 50-1247
- Simple energy budget algorithm for the snowmelt runoff model. Kustas, W.P., et al. [1994,eng] 50-3819
- Small-scale physical processes in the Arctic Ocean. Padman, L., [1995,eng] 50-1162
- Snow and ice cover and climate sensitivity. Oerlemans, J., et al. [1995,eng] 50-3246
- Snowmelt modelling by combining air temperature and a distributed radiation index. Cazorzi, F., et al. [1996,eng] 50-5689
- Solar irradiance, air pollution and temperature changes in the Arctic. Stanhill, G., [1995,eng] 50-5231
- Spaceborne radiometric determination of cloud structure. Pierdicca, N., et al. [1996,eng] 50-5683
- Spectral quality and absorption of solar radiation in a mountain birch forest. Abisko, Sweden. Ovhed, M., et al. [1995,eng] 50-2813
- Surface radiation budget, Svalbard and Antarctica, 1987. Yamanouchi, T., et al. [1995,eng] 50-2580
- Thermal balance of the surface of the Marukh Glacier. Voloshina, A.P., [1972,rus] 50-535
- Winter surface energy budget in Denver, Colorado. Ruffieux, D., [1995,eng] 50-2152
- Radiation measurement**
- Hot water drilling in antarctic ice for neutrino detectors. Koci, B.R., et al. [1996,eng] 50-6467
- Muon μ -particle: a new technique for mineral exploration. Zhou, D.Z., [1993,chi] 50-2382
- See [also]: Radiometry
- Radiation measuring instruments**
- Antarctic muon and neutrino detector AMANDA: first data and outlook. Lynch, J., et al. [1995,eng] 50-6742
- Hot water drilling in antarctic ice for neutrino detectors. Koci, B.R., et al. [1996,eng] 50-6467
- Radio communication**
- Conditions for the propagation of short-wave radio waves during ionospheric disturbances. Lukashkin, V.M., [1991,rus] 50-2263
- Development of road traffic information system responsive to driver telephone requests. Honkawa, T., et al. [1993,jpn] 50-2838
- Diagnostics of the polar ionosphere using oblique and reverse-oblique sounding. Vovk, V.I.A., [1991,rus] 50-2264
- End of season report: Operation Deep Freeze 95/96. U.S. Naval Support Force Antarctica, [1996,eng] 50-5807
- Estimating the characteristics of high-latitude radio communication lines. Lukashkin, V.M., [1991,rus] 50-1641
- Evaluation of ionospheric inhomogeneities using reverse-oblique sounding. Vovk, V.I.A., [1991,rus] 50-2265
- Forecasting of maximum observed frequencies on high latitude short-wave radio lines. Egorova, L.V., et al. [1991,rus] 50-2268
- From Anik to MSAT: bringing modern communications to the North Pole. A., [1996,eng] 50-2446
- High-speed network for communication by voice, data video and fax among three antarctic bases. Blas, L., et al. [1994,eng] 50-4282
- Highest usable frequencies on the Bellingshausen-Molodetz-naaya path in winter. Besprozvannaya, A.S., et al. [1991,rus] 50-2272
- Links between the lowest observed frequencies and errors in their forecasting at high latitudes. Ignatov, V.S., et al. [1991,rus] 50-2266
- Organization of regional forecasting services using oblique sounding of the ionosphere. Khodzha-Akhmedov, Ch.L., [1991,rus] 50-2262
- Relocation of telecommunication facilities at Syowa Station. Takada, K., [1995,jpn] 50-3499
- Rotatable shortwave curtain antenna operable at very high wind speeds. Bruger, P., et al. [1996,eng] 50-6621
- Spectral deviations of HF signals in antarctic radio lines. Khodzha-Akhmedov, Ch.L., et al. [1991,rus] 50-2271
- Studying the probability of the transmission of decimeter radio waves over radio lines. Lukashkin, V.M., et al. [1991,rus] 50-2269
- Telecommunications in Greenland: also for offshore activities. Malmberg, P., [1995,eng] 50-2968
- Radio echo soundings**
- Analysis of interference effects on surface-impedance mapping of glacier thickness. Thiel, D.V., et al. [1996,eng] 50-4889
- Application of SSM/I data for snow cover and climate research. Armstrong, R.L., [1995,eng] 50-4178
- Arctic process and climate studies with the TOVS satellite sounder. Francis, J.A., [1994,eng] 50-684

Radio towers

- Atmospheric contribution to hydrologic variations in the Arctic. Walsh, J.E., et al. [1994,eng] 50-1034
- Cloud ice mass content from satellite radiometry and aircraft data. Matrosov, S.Y., et al. [1996,eng] 50-5277
- Cloud observations with a polarimetric 33 GHz and 95 GHz radar. Sekelsky, S.M., et al. [1996,eng] 50-4601
- Demonstration project to supply near real time sea ice information. Blackford, C., et al. [1994,eng] 50-1516
- Depositional environment of the Laptev Sea shelf. Nürnberg, D., et al. [1995,eng] 50-940
- Dielectric properties and microwave remote sensing of snow and ice. Matsuoka, T., et al. [1995,jpn] 50-3511
- Distribution and transport of atmospheric water vapour over the arctic basin. Serreze, M.C., et al. [1995,eng] 50-5217
- Elevation change of the Greenland ice sheet from satellite altimetry. Wingham, D.J., [1995,eng] 50-5237
- Glacial cirque formation in northern Scandinavia. Richardson, C., et al. [1996,eng] 50-6246
- Impact of subglacial geothermal activity on glacier meltwater quality. Lawler, D.M., et al. [1996,eng] 50-6087
- Intercomparison of snow retrieval algorithms by means of spaceborne microwave radiometry. Rott, H., et al. [1995,eng] 50-4176
- Internal and basal ice changes near the grounding line derived from radio-echo sounding. Uratsuka, S., et al. [1996,eng] 50-4895
- Inventory of Antarctic sub-glacial lakes. Siegert, M.J., et al. [1996,eng] 50-6415
- Investigation of the surface condition in Taklimakan Desert. Tsuchiya, K., et al. [1991,jpn] 50-1426
- Laboratory study of microwave backscattering from saline ice. Porco, R.L., [1994,eng] 50-683
- Lake ice and its remote sensing monitoring in the Tibetan Plateau. Chen, X.Z., et al. [1995,chi] 50-5634
- Lake Vostok beneath the antarctic ice sheet—a Russian research proposal. Kaminuma, K., [1995,jpn] 50-3498
- Meteorological research applications of mm-wave radar. Kropfli, R.A., et al. [1996,eng] 50-4600
- Microwave remote sensing of ice sheets by SAR interferometry. Nishio, F., [1995,jpn] 50-1175
- Microwave remote sensing of snow. Koike, T., et al. [1992,eng] 50-3028
- Monitoring lead dynamics with ERS-1 synthetic aperture radar imagery. Wackerman, C.C., et al. [1994,eng] 50-1512
- Monitoring snow cover on the Tibetan Plateau using passive microwave satellite data. Robinson, D.A., et al. [1995,eng] 50-4180
- Multisensor observations of winter sea ice in the Greenland Sea. Toudal, L., [1994,eng] 50-1514
- Oceanic remote sensing and sea ice monitoring. Johannessen, J.A., ed., et al. [1994,eng] 50-1509
- On the glaciology of Edgessa and Barentsøya, Svalbard. Dowdeswell, J.A., et al. [1995,eng] 50-4712
- Passive microwave remote sensing of snow: volume scattering in antarctic firn. Tsang, L., et al. [1995,eng] 50-4181
- Pixel-scale ground snow survey for passive microwave study of the arctic snow cover. Woo, M.K., et al. [1995,eng] 50-3110
- Radiosonde examination of synoptical scale wind/cloud dynamics. Mace, G.G., et al. [1995,eng] 50-3256
- Relevance of ice thickness measurements to Alaskan glacier variations. Nolan, M., et al. [1995,eng] 50-1875
- Remote sensing of sea ice by passive microwave radiometer. Enomoto, H., [1996,jpn] 50-3506
- Satellite altimetry and FRAM model of the southern ocean. Snaith, H.M., [1994,eng] 50-1510
- Satellite remote sensing of the Arctic Ocean and adjacent seas. Comiso, J.C., [1995,eng] 50-1160
- Satellite SAR identification of lake water resources on the North Slope. Jeffries, M.O., et al. [1996,eng] 50-6177
- Satellite sounding of arctic stratospheric temperatures. Claud, C., et al. [1996,eng] 50-3445
- Sea ice concentrations derived from SMMR and SSM/I. Bjørge, E., et al. [1994,eng] 50-1513
- Sea ice radar backscatter and the fusion of active and passive microwave data. Beaven, S.G., [1995,eng] 50-4171
- Statistical parameters influencing mapping of subglacial topography. Herzfeld, U.C., et al. [1993,eng] 50-1033
- Study of the morphology of a discontinuous section of a first year arctic pressure ridge. Bowen, R.G., et al. [1996,eng] 50-3829
- Subglacial topography in the Ser Rondane Mountains. Pattyn, F., et al. [1995,eng] 50-660
- Surface ice flow and anisotropic internal radar echoes in Queen Maud Land ice sheet. Maeno, H., et al. [1995,eng] 50-2577
- Thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. Björnson, H., et al. [1996,eng] 50-4888
- Thickness of Valfurva glaciers measured by vertical electrical probing. Guglielmin, M., et al. [1995,ita] 50-2601
- Validation and evaluation of a workstation for monitoring sea ice. McIntyre, N., et al. [1994,eng] 50-1515

Radio towers

See [also]: Towers

Radio waves

- Effect of saline frozen ground on radio wave propagation in arctic shore regions. Frolöv, A.D., et al. [1995,eng] 50-202
- Forecasting of maximum observed frequencies on high latitude short-wave radio lines. Egorova, L.V., et al. [1991,rus] 50-2268
- On radio detection of ultrahigh energy neutrinos in antarctic ice. Frichter, G.M., et al. [1996,eng] 50-4024

- Predicting the maximum available frequencies using a numerical model of the high latitude ionosphere. Vovk, V.I.A., et al. [1991,rus] 50-2267
- Satellite tracking of high-arctic northern fulmars. Falk, K., et al. [1995,eng] 50-718
- Solar particle origin for polar ice core nitrate anomalies. Zeller, E.J., et al. [1995,eng] 50-1184
- See [also]: Microwaves
- Radioactive age determination**
- "Ice Mountain"—a Pleistocene relict in the north of West Siberia. Rajamäe, R., et al. [1989,eng] 50-2897
- 12,000 year radiocarbon date of deglaciation from the continental divide of northwestern Montana. Carrara, P.E., [1995,eng] 50-3299
- Accelerator mass spectrometry: new applications. Synal, H.A., [1995,eng] 50-2309
- Age of carbon black atmospheric aerosols over Finland. Raunemaa, T., et al. [1996,eng] 50-5257
- Alpine "Ice-man" and Holocene climatic change. Baroni, C., et al. [1996,eng] 50-6708
- Alpine glaciers in the Little Ice Age—catalogue and C¹⁴ documentation. Zumbühl, H.J., et al. [1990,ger] 50-3398
- Barents Sea ice sheet retreat. Forman, S.L., et al. [1996,eng] 50-5585
- Barents Sea Pleistocene ice sheet growth deduced from marine sediment provenance. Elverhøi, A., et al. [1995,eng] 50-2012
- Biogenic composition of ice-rafted debris in Atlantic Ocean bottom sediment. van Krevel, S.A., et al. [1996,eng] 50-5219
- Boreal ecosystem development in the northwestern Alaska Range since 11,000 yr B.P. Hu, F.S., et al. [1996,eng] 50-4581
- Calibration of radiocarbon ages and the interpretation of paleoenvironmental records. Bartlein, P.J., et al. [1995,eng] 50-2018
- Canadian paleoenvironments derived from pollen macrofossils. Gajewski, K., et al. [1995,eng] 50-2131
- Canadian permafrost distribution during the Holocene. Zoltai, S.C., [1995,eng] 50-1453
- Century of accumulation and temperature changes in Dronning Maud Land, Antarctica. Isaksson, E., et al. [1996,eng] 50-4352
- Chronology of late Wisconsin ice retreat from the western Ross Sea, Antarctica. Licht, K.J., et al. [1996,eng] 50-3814
- Climatic implications of Norwegian Neoglaciation glacier maximum. Matthews, J.A., [1991,eng] 50-3306
- Coastal Greenland Holocene sea level changes. Rasch, M., et al. [1995,eng] 50-5533
- Composition, properties and radiocarbon age of humus in paleosols. Chichagova, O.A., [1995,eng] 50-1047
- Danish lacustrine sediment evidence of paleoclimatological variability. Hammarlund, D., et al. [1996,eng] 50-5826
- Dating of Holocene solifluction in the Austrian Alps. Veit, H., [1993,eng] 50-826
- Dating of Norwegian Pleistocene rock sediments. Balashov, I.U.A., et al. [1995,eng] 50-5534
- Dating of soil development on Sierra Nevada moraines. Bach, A.J., et al. [1996,eng] 50-4630
- Deglaciation chronology of West Greenland moraines. Van Tatenhove, F.G.M., et al. [1996,eng] 50-5187
- Diatom distribution on Baffin Island, Canada. Wolfe, A.P., [1996,eng] 50-6514
- Evaluation of controls on ice-berg-calving glaciers. Wiles, G.C., et al. [1995,eng] 50-3324
- Evidence for Holocene seismic triggering of Arctic Ocean turbidites. Grantz, A., et al. [1996,eng] 50-6223
- Evidence of Holocene sea level rise from Nova Scotian bottom sediments. Scott, D.B., et al. [1995,eng] 50-4528
- Final stages in Laurentide ice sheet collapse. Hudson Strait. Andrews, J.T., et al. [1995,eng] 50-6556
- Fluctuations of local glaciers at the termination of the Pleistocene: 18-8 ka BP. Clapperton, C.M., [1995,eng] 50-500
- Fluctuations of the South Patagonian ice-field during the last glaciation and the Holocene. Marden, C.J., et al. [1995,eng] 50-6211
- Foraminiferal evidence for Greenland environmental change. Jennings, A.E., et al. [1995,eng] 50-6079
- Foraminiferal evidence of Younger Dryas ice cooling on the British Columbia shelf. Patterson, R.T., et al. [1995,eng] 50-5039
- Fossil burrows of mammals in the loess-ice deposits of the Kolyma-Indigirka Lowland. Gubin, S.V., et al. [1996,eng] 50-4146
- Full-glacial shoreline vegetation during the maximum highstand at Owens Lake, California. Koehler, P.A., et al. [1994,eng] 50-1543
- Geochronological criterion for recognition of Pleistocene ice rafting events. Thomson, J., et al. [1995,eng] 50-1250
- Glacial evidence of climatic cooling during the Younger Dryas. Osborn, G.D., et al. [1995,eng] 50-4625
- Glaciers and climate of the mountains of the former USSR during the Neoglacial. Serebrianniy, L.R., et al. [1996,eng] 50-6552
- Glacio-isostatic implications of Swedish Holocene shore displacement. Berglund, M., [1995,eng] 50-3367
- Global sea level rise and glacial isostatic adjustment. Peltier, W.R., [1996,eng] 50-4310
- Global Younger Dryas? Petzet, D., [1995,eng] 50-504
- Gould Pond, Maine: late-glacial transitions from marine to upland environments. Anderson, R.S., et al. [1992,eng] 50-2561

Radioactive age determination

- Greenland and United Kingdom paleotemperatures comparisons from Greenland snow accumulation rates. Lowe, J.J., et al. [1995,eng] 50-1082
- Greenland ice core sediments correlated with oceanic sediments. Grönvold, K., et al. [1995,eng] 50-1251
- Holocene development of a debris slope in subarctic Québec, Canada. Marion, J., et al. [1995,eng] 50-2857
- Holocene environmental changes in a Tibetan lake basin. Fontes, J.C., et al. [1996,eng] 50-5090
- Holocene environmental changes in a Tibetan lake basin. pt.4. Gasse, F., et al. [1996,eng] 50-5093
- Holocene glacial chronology in Patagonia: Tyndall and Upsala glaciers. Aniya, M., [1995,eng] 50-2806
- Holocene glacier variations in central Asia. Savoskul, O.S., et al. [1996,eng] 50-4372
- Holocene shoreline displacement in southernmost Spitsbergen. Ziaja, W., et al. [1995,eng] 50-5537
- Holocene solifluction at Okstindan, northern Norway: a reassessment. Worsley, P., [1993,eng] 50-829
- Holocene solifluction in the Swiss Alps: dating and climatic implications. Gamper, M., [1993,eng] 50-824
- Holocene subalpine lake fluctuations in France. Magny, M., [1992,eng] 50-2560
- Holocene evolution of a stretch of an eastern Italian alpine valley. Friz, C., et al. [1995,eng] 50-6697
- Ice rafting sources for Younger Dryas detrital carbonate in the North Atlantic. Andrews, J.T., et al. [1995,eng] 50-1564
- Ice sheet model test via glacial geological research in West Greenland. Van Tatenhove, F.G.M., et al. [1995,eng] 50-2013
- Implications of bedrock cosmic ray exposure age for Fennoscandian ice sheet height. Brook, E.J., et al. [1996,eng] 50-3813
- Implications of glacial deposit physical properties for radiocarbon dating. Karrow, P.F., [1992,eng] 50-2563
- Isotope analysis of Bering Sea Pleistocene sediment variations. Nakatsuka, T., et al. [1995,eng] 50-3002
- Isotopic chronologies of Chukchi Sea continental shelf sediment fluxes. Baskaran, M., et al. [1995,eng] 50-1805
- Last deglaciation of the Franz Victoria Trough, northern Barents Sea. Lubinski, D.J., et al. [1996,eng] 50-6535
- Last glaciation in central Magellan Strait, southernmost Chile. Clapperton, C.M., et al. [1995,eng] 50-964
- Last Scottish ice-sheet: facts and speculative discussion. Sissons, J.B., [1981,eng] 50-3620
- Late Holocene glacier fluctuations in western Norway. Nesje, A., et al. [1991,eng] 50-3302
- Late Holocene record of aeolian and fire activity in northern Québec, Canada. Filion, L., et al. [1991,eng] 50-3304
- Late Pleistocene vegetation of eastern Beringia: pollen analysis of dated alluvium. Schweger, C.E., [1982,eng] 50-3373
- Late Pleistocene-Holocene diatom record and paleoenvironment of Bangong Lake, Western Tibet. Fan, H., et al. [1994,eng] 50-1532
- Late Quaternary environmental history of Bátorliget, NE Hungary. Willis, K.J., et al. [1995,eng] 50-2165
- Late Quaternary paleogeography of the mid- to outer continental shelf, East Greenland. Williams, K.M., et al. [1995,eng] 50-2810
- Late Weichselian glacial maximum on Andøya, north Norway. Möller, J.J., et al. [1992,eng] 50-2546
- Late Younger Dryas to Holocene paleoenvironments of the southern Kattegat, Scandinavia. Conradsen, K., [1995,eng] 50-2861
- Late-glacial palynology of the Myrtaceae of southern Chile. Zhou, M.M., et al. [1996,eng] 50-4744
- Late-Holocene glaciation and twentieth-century retreat, northeastern Brooks Range, Alaska. Evison, L.H., et al. [1996,eng] 50-4371
- Little Ice Age evidence from a south-central North American ice core. U.S.A. Natfz, D.L., et al. [1996,eng] 50-4334
- Mammoth extinction: two continents and Wrangel Island. Martin, P.S., et al. [1995,eng] 50-650
- Margin of the last Barents-Kara ice sheet at Markhida, northern Russia. Tveranger, J., et al. [1995,eng] 50-2014
- Marine sedimentation rates as evidence of continental glaciation. Goldschmidt, P.M., [1995,eng] 50-1828
- Moraine dating supports Younger Dryas cooling event. Gosse, J.C., et al. [1995,eng] 50-1255
- Near-shore Baltic ice lake deposits in Fakse Bugt, southeast Denmark. Bennike, O., et al. [1995,eng] 50-1798
- Neoglaciation and vegetation change in British Columbia. Clague, J.J., et al. [1996,eng] 50-4332
- New radiocarbon dates for the Vedde ash and the Saksunavain ash from western Norway. Birks, H.H., et al. [1996,eng] 50-4576
- Nonglacial interval in Canadian Pleistocene sediments. Hicock, S.R., et al. [1995,eng] 50-1087
- North Sea lithostratigraphy related to glacial isostasy. Ekman, S.R.R., [1995,eng] 50-6560
- North Sea paleoenvironments during the last deglaciation. Knudsen, K.L., et al. [1996,eng] 50-6534
- Norwegian glifluction stages from dated buried soils. Nesje, A., [1993,eng] 50-828
- Norwegian Sea Pleistocene ice-core indicators of climatic change. Sejrup, H.P., et al. [1995,eng] 50-6564
- Paleoclimate of the North Atlantic seaboard during the last glacial/interglacial transition. Lowe, J.J., et al. [1995,eng] 50-501
- Paleoclimatic atmospheric chemical changes inferred from fossil leaf density. Beerling, D.J., et al. [1995,eng] 50-6563

Radioactive fallout

- Paleoclimatic changes and glacier variations in Colombia. Thouret, J.C., et al. [1996,eng] 50-6706
- Paleoclimatic implications of Swedish lake-level fluctuations. Almqvist-Jacobson, H., [1995,eng] 50-2716
- Paleoecological study of forest lines in southern Sweden. Björkman, L., [1995,eng] 50-6080
- Paleoecology of arctic lake sediment macrofossils. Birks, H.H., [1991,eng] 50-3305
- Paleoecology of Swedish bogs. Segerström, U., et al. [1996,eng] 50-4373
- Paleoenvironmental history of a Canadian freshwater lake. Hickman, M., et al. [1996,eng] 50-6696
- Paleogeographic implications of ostracod fauna in Karakorum Mountain lacustrine deposits. Li, Y.F., et al. [1994,eng] 50-1537
- Paleohydrological changes in French mountains due to paleoclimatic changes. Magny, M., [1995,eng] 50-5038
- Paleomagnetic constraints on sedimentation rates in the eastern Arctic Ocean. Schneider, D.A., et al. [1996,eng] 50-6707
- Palyonology and sediment slumping in a high arctic Greenland lake. Fredskild, B., [1995,eng] 50-3368
- Periodic water saturation of ice wedges: results of an oxygen-18 and deuterium study. Lauriol, B., et al. [1995,eng] 50-6667
- Plankton blooms as evidence of Holocene climatic fluctuations. Thorsen, T.A., et al. [1995,eng] 50-2860
- Plausible hydrological scenario for the Bølling-Allerød atmospheric methane increase. Kalin, R.M., et al. [1996,eng] 50-4376
- Pleistocene glaciomarine isostatic rebound, Puget Lowland, Washington. Dethier, D.P., et al. [1995,eng] 50-1832
- Pleistocene lacustrine record of a Chinese lake. Rhodes, T.E., et al. [1996,eng] 50-5095
- Pleistocene treeline fluctuation in the Swiss Alps. Tinner, W., et al. [1996,eng] 50-5487
- Post glacial emergence and the Tapes transgression, north-central Kola Peninsula, Russia. Snyder, J.A., et al. [1996,eng] 50-5829
- Postglacial sea-level history of Edgeøya and Barentsøya, eastern Svalbard. Bondevik, S., et al. [1995,eng] 50-4715
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Quaternary sea level history in the Northwest Territories, Canada. Kerr, D.E., [1996,eng] 50-6553
- Radioactive dating of pollen deposits in a Swedish lake. Regnell, J., [1992,eng] 50-2562
- Radiocarbon balances of two Tibetan Lakes from 13,000 B.P. Fontes, J.C., et al. [1993,eng] 50-5027
- Radiocarbon date list VIII: Canada, Greenland, Iceland, and Antarctica. Manley, W.F., ed. et al. [1996,eng] 50-5927
- Radiocarbon dated common mussels *Mytilus edulis* from eastern Svalbard. Hjort, C., et al. [1995,eng] 50-4719
- Radiocarbon dating evidence for mammoths on Wrangel Island, Arctic Ocean, until 2000 B.C. Vartanian, S.L., et al. [1995,eng] 50-649
- Radiocarbon dating of buried soils with particular reference to Holocene solifluction. Matthews, J.A., [1993,eng] 50-846
- Radiocarbon dating of glacial moraines in California. Dorn, R.L., [1996,eng] 50-6098
- Radiocarbon dating of the Gouli-Finglacial boundary of the Swedish Time Scale. Brunnberg, L., et al. [1992,eng] 50-2551
- Radiocarbon geochemistry of modern and ancient arctic lake systems. Baffin Island, Canada. Abbott, M.B., et al. [1996,eng] 50-5190
- Radiocronometry of the ice sheet in the Upper Pleistocene. Serbianniy, L.R., [1972,eng] 50-539
- Rapid isostatic rebound in southwestern Iceland at the end of the last glaciation. Ingólfsson, O., et al. [1995,eng] 50-1802
- Rate of carbon accumulation in boreal mires. Tolonen, K., et al. [1994,eng] 50-3223
- Regional stratigraphy and lithology of the Carpathian loess deposits in Przemyśl environs. Zanczoni, M., [1995,eng] 50-2614
- Relict sorted patterned ground in Rostu, northernmost Sweden. Kling, J., [1996,eng] 50-5581
- Review of multi-proxy data for the Younger Dryas in Atlantic Canada. Mayle, F.E., et al. [1995,eng] 50-4624
- Sea levels in Petuniabukta—central Spitsbergen. Stankowski, W., [1989,eng] 50-2887
- Solifluction and climatic variation in the Holocene: discussion and synthesis. Matthews, J.A., et al. [1993,eng] 50-848
- Solifluction in northern Eurasia: a review. Serbianniy, L.R., et al. [1993,eng] 50-833
- Stratigraphical position of kame deposits to the north of Bielsk Podlaski. Mycielska-Dowgięta, E., et al. [1995,eng] 50-2617
- Succession in the Hudson Bay lowland, northern Ontario, Canada. Klinger, L.F., et al. [1996,eng] 50-5491
- Taku Glacier, southeast Alaska, U.S.A.: Late Holocene history of a tidewater glacier. Motyka, R.J., et al. [1996,eng] 50-4335
- Thermoluminescence dating of Alaskan Pleistocene tephra. Berger, G.W., et al. [1996,eng] 50-5188
- Variations in Atlantic Ocean surface paleoceanography. Sarnthein, M., et al. [1995,eng] 50-3003
- Warming at 18,000 yr B.P. in the tropical Andes. Helmens, K.F., et al. [1996,eng] 50-5189
- Water fern residue as Chilean paleoclimatic indicator. Heusser, C.J., et al. [1996,eng] 50-5488
- Weichselian chronostratigraphy and correlations. Möner, N.A., [1981,eng] 50-3624

- Weichselian glaciation in Svalbard before 15,000 B.P. Salvigsen, O., et al. [1981,eng] 50-3623
- Radioactive fallout**
See [also]: Fallout
- Radioactive isotopes**
 ^{228}Ra as a tracer for shelf water in the Arctic Ocean. Van der Loeff, M.M.R., et al. [1995,eng] 50-4564
- ^{234}Th as an indicator of particulate fluxes in the Kara Sea. Kuptsov, V.M., et al. [1995,eng] 50-3544
- Accelerator mass spectrometry: new applications. Synal, H.A., [1995,eng] 50-2309
- Arctic Ocean radioactive isotope distribution and transport. Scholten, J.C., et al. [1995,eng] 50-4563
- Chernobyl fallout in Bering Sea sediments. Kusakabe, M., et al. [1988,eng] 50-4635
- Cretaceous to recent extension in the Bering Strait region, Alaska. Dumitru, T.A., et al. [1996,eng] 50-3714
- Distribution of cesium-137 in Bering and Chukchi Sea marine sediments. Cooper, L.W., et al. [1995,eng] 50-5062
- Environment and ecosystems of Novaya Zemlya: the archipelago and shelf. Matishov, G.G., ed. [1995,eng] 50-5145
- Gamma emitters in the Barents Sea area. Matishov, D.G., et al. [1993,eng] 50-2191
- Geophysical and laboratory methods for studying the mechanical characteristics of permafrost. Mamzelev, A.P., [1996,eng] 50-6833
- High precision ^{230}Th and ^{234}Th in the Norwegian Sea and Denmark by thermal ionization mass spectrometry. Moran, S.B., et al. [1995,eng] 50-2022
- Implications of bedrock cosmic ray exposure age for Fennoscandian ice sheet height. Brook, E.J., et al. [1996,eng] 50-3813
- Ion-induced nucleation around radon daughters in remote arctic maritime air. Bigg, E.K., [1996,eng] 50-4322
- Levels of cesium-137 in bottom sediments of the Laptev Sea. Matishov, G.G., et al. [1995,eng] 50-4109
- Paleoclimatic change from Lake Baikal sediments. Edgington, D.N., et al. [1996,eng] 50-6633
- Pu, ^{137}Cs and excess ^{210}Pb in Russian arctic sediments. Baskaran, M., et al. [1996,eng] 50-5606
- Quaternary geochronology using the U-Th-Pb method. Getty, S.R., et al. [1995,eng] 50-496
- Radioecological hazard of ship nuclear reactors sunken in the Arctic. Sivintsev, I.U.V., et al. [1996,eng] 50-5676
- Radionuclide tracer profiles on Arctic Ocean ice islands. Smith, J.N., et al. [1995,eng] 50-4560
- Role of the large-scale Arctic Ocean circulation in the transport of contaminants. Schlosser, P., et al. [1995,eng] 50-4556
- Scavenging rates affecting Arctic Ocean radionuclide distributions. Cochran, J.K., et al. [1995,eng] 50-4562
- Sedimentation and mixing rates of radionuclides in Barents Sea sediments off Novaya Zemlya. Smith, J.N., et al. [1995,eng] 50-4561
- Spectrometry of Norwegian Sea water radioactive isotopes. Moran, S.B., et al. [1995,eng] 50-1186
- Subglacial ice accretion in an Alaskan glacier. Strasser, J.C., et al. [1996,eng] 50-6250
- Theoretical model of the transfer of radionuclides (the accident at the Siberian chemical plant). Belov, P.N., [1995,eng] 50-3774
- Transfer of reprocessing wastes from north-west Europe to the Arctic. Kershaw, P., et al. [1995,eng] 50-4559
- Tritium analysis of ground ice: results and prospects. Chizhov, A.B., et al. [1996,eng] 50-6385
- Use of sulfur-35 and tritium to study runoff from an alpine glacier, Wind River Range, Wyoming. Michel, R.L., et al. [1995,eng] 50-2437
- Radioactive logging**
Conglomerate identification and mapping leads to development success in a mature Alaskan field. O'Sullivan, T.P., et al. [1991,eng] 50-1756
- Injection profiling in the Kuparuk River Field, Alaska. Scott, H.D., et al. [1991,eng] 50-1741
- Radioactive wastes**
Arctic radioactive contamination from former Soviet Union sources. Bradley, D.J., [1992,eng] 50-5484
- Contaminants in the arctic marine environment: priorities for protection. Macdonald, R.W., et al. [1996,eng] 50-5574
- Contemporary status of bottom fauna in the Chernaya Bay (Novaya Zemlya Archipelago). Matishov, G.G., et al. [1996,eng] 50-4147
- Distribution of cesium-137 in Bering and Chukchi Sea marine sediments. Cooper, L.W., et al. [1995,eng] 50-5062
- Frozen shaft for nuclear waste disposal in Germany. Jordan, P., et al. [1992,eng] 50-29
- Frozen soil barrier technology. Oak Ridge National Laboratory. Hazardous Waste Remedial Actions Program (HAZWAP). [1995,eng] 50-2793
- Hot ice could contaminate fish. Edwards, R., [1996,eng] 50-4205
- Modelling the release of radioactive waste in the Kara Sea. Timms, S.J., et al. [1995,eng] 50-5059
- Nuclear waste management in Canada. MacDowall, J., [1984,eng] 50-3164
- Ocean pollution in the Arctic north and the Russian Far East. Kirk, E.J., ed. [1995,eng] 50-5058
- Pollution distribution and hydrographic variability of the Kara Sea. Pavlov, V.K., et al. [1995,eng] 50-4557
- Preliminary results of studies of industrial and nuclear contaminants in the Ob and Yenisey rivers and the Kara Sea. Champ, M.A., et al. [1995,eng] 50-5060

Radiometry

- Pu, ^{137}Cs and excess ^{210}Pb in Russian arctic sediments. Baskaran, M., et al. [1996,eng] 50-5606
- Radioactive contaminants: potential risk to ocean ecosystems. Kelley, J.J., et al. [1996,eng] 50-5906
- Radioecological hazard of ship nuclear reactors sunken in the Arctic. Sivintsev, I.U.V., et al. [1996,eng] 50-5676
- Radioecological studies of radioactive contaminants in Ussury Bay, Sea of Japan. Soifer, V.N., [1995,eng] 50-5061
- Role of the large-scale Arctic Ocean circulation in the transport of contaminants. Schlosser, P., et al. [1995,eng] 50-4556
- Scavenging rates affecting Arctic Ocean radionuclide distributions. Cochran, J.K., et al. [1995,eng] 50-4562
- Sedimentation and mixing rates of radionuclides in Barents Sea sediments off Novaya Zemlya. Smith, J.N., et al. [1995,eng] 50-4561
- Sites used for disposal of radioactive waste in Alaska. [1994,eng] 50-4943
- Tracing radioactive contamination in the Siberian Arctic. Sayles, F.L., et al. [1996,eng] 50-6668
- Transfer of reprocessing wastes from north-west Europe to the Arctic. Kershaw, P., et al. [1995,eng] 50-4559
- Radioactivity**
Distribution of cesium-137 in Bering and Chukchi Sea marine sediments. Cooper, L.W., et al. [1995,eng] 50-5062
- Gamma emitters in the Barents Sea area. Matishov, D.G., et al. [1993,eng] 50-2191
- Levels of cesium-137 in bottom sediments of the Laptev Sea. Matishov, G.G., et al. [1995,eng] 50-4109
- Mathematical model of pollution vectors in the arctic basin. Krupin, V.F., et al. [1996,eng] 50-3412
- New radiochemical procedures for environmental actinide measurements and data quality control. Testa, C., et al. [1995,eng] 50-2344
- Possible ways of preventing fallout of carcinogenic hydrocarbons. Bezziyaykova, A.N., et al. [1991,eng] 50-1317
- Preliminary results of studies of industrial and nuclear contaminants in the Ob and Yenisey rivers and the Kara Sea. Champ, M.A., et al. [1995,eng] 50-5060
- Radioactive heating of porous comet nuclei. Prialnik, D., et al. [1995,eng] 50-1464
- Radioecological hazard of ship nuclear reactors sunken in the Arctic. Sivintsev, I.U.V., et al. [1996,eng] 50-5676
- Radioecological studies of radioactive contaminants in Ussury Bay, Sea of Japan. Soifer, V.N., [1995,eng] 50-5061
- Report on radioactivity in the Arctic region. Paakkola, O., [1991,eng] 50-3423
- Theoretical model of the transfer of radionuclides (the accident at the Siberian chemical plant). Belov, P.N., [1995,eng] 50-3774
- Transfer coefficients of radon-222 across the sea surface. Kholuiskii, S.N., et al. [1995,eng] 50-4120
- Transfer of European coastal pollution to the Arctic: radioactive tracers. Dahlgaard, H., [1995,eng] 50-1136
- Use of remote sensing spacecraft in real-time support for disaster management. Tortorici Montaperto, A., et al. [1992,eng] 50-620
- Radiocarbon dating**
See [also]: Radiometric age determination
- Radiometers**
See [also]: Radiation measuring instruments
- Radiometry**
Airborne imaging microwave radiometer—part I: radiometric analysis. Collins, M.J., et al. [1996,eng] 50-4763
- Algorithm for radiometric image mapping of global snow cover. Hall, D.K., et al. [1995,eng] 50-1809
- Algorithm to enhance sea ice concentration estimates from radiometric brightness temperatures. St. Germain, K.M., et al. [1992,eng] 50-3564
- Antarctic atmospheric moisture values obtained from microwave radiometers. Wada, M., et al. [1992,eng] 50-3568
- Antarctic cloud scattering depth using ground-based radiometry. Ricchiazzi, P., et al. [1995,eng] 50-1335
- Application of passive microwave retrieval algorithms to monitor global snow cover. Armstrong, R.L., et al. [1992,eng] 50-3562
- Application of SSM/I data for snow cover and climate research. Armstrong, R.L., [1995,eng] 50-4178
- Archive of digital data from the Defense Meteorological Satellite Program (DMSP). Kroehl, H.W., et al. [1994,eng] 50-5076
- Arctic process and climate studies with the TOVS satellite sounder. Francis, J.A., [1994,eng] 50-484
- Arktis 1993: report on the field phase with examples of measurements. Brümmer, B., ed. [1993,eng] 50-4945
- Barents Sea ice concentration from SSM/I data. Smith, D.M., [1996,eng] 50-6695
- Bidirectional reflectance measurements of two snow types. Taylor, S., et al. [1995,eng] 50-3113
- Calibration of a small, low-cost thermal infrared radiometer. Rapiet, C.B., et al. [1996,eng] 50-6623
- Canadian development and use of snow cover information from passive microwave satellite data. Goodison, B.E., et al. [1995,eng] 50-4177
- Changes in surface conditions of the Taklimakan Desert. Sugihara, S., [1991,eng] 50-1425
- Cirrus infrared parameters and shortwave reflectance relations from observations. Spinhrne, J.D., et al. [1995,eng] 50-5162
- Cloud ice mass content from satellite radiometry and aircraft data. Matrosov, S.Y., et al. [1996,eng] 50-5277

Radomes

- Cloud structure derived from remote sensing measurements. Sassen, K., [1984,eng] 50-4921
- Coastal environments of the western Kara and eastern Barents Seas. Phirman, S.L., et al., [1995,eng] 50-4558
- Comparison between snow cover products derived from visible and microwave satellite observations. Basist, A., et al., [1996,eng] 50-3007
- Comparison of infrared radiometers used to gather background signature data. Berger, R.H., et al., [1995,eng] 50-2474
- Cryospheric indices of global change. Barry, R.G., et al., [1994,eng] 50-4789
- DEM corrected ERS-1 SAR data for snow monitoring in alpine regions. Guneriusson, T., et al., [1995,eng] 50-3716
- Demonstration of seasonal changes in the territory of Finland using multi-temporal NOAA-AVHRR data. Andersson, K., [1992,eng] 50-618
- Design of an Airborne Imaging Microwave Radiometer. Paul, J.L., et al., [1992,eng] 50-3570
- Detecting and monitoring snow cover variability. Barry, R.G., et al., [1995,eng] 50-3314
- Detecting new-ice in the arctic from multispectral satellite data. Martin, T., et al., [1992,eng] 50-224
- Detection of possible aircraft icing in clouds by passive-active radars. Tarabukin, I.A., et al., [1992,eng] 50-3569
- Determination of liquid water altitudes using combined remote sensors. Politovich, M.K., et al., [1995,eng] 50-1414
- Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al., [1996,eng] 50-4766
- Earth-gridded SSM/I data set for cryospheric studies and global change monitoring. Armstrong, R.L., et al., [1995,eng] 50-1963
- Effect of sea ice frost flowers on infrared surface observations. Martin, S., et al., [1996,eng] 50-5858
- Effects of snowpack grain size on remote sensing of river basins. Josberger, E.G., et al., [1996,eng] 50-4302
- Eight-year time series radiometric measurement of snow and sea ice covers. Ferraro, R.R., et al., [1996,eng] 50-5769
- Empirical study on Nimbus-7 snow mass and Indian summer monsoon rainfall. Kripalani, R.H., et al., [1996,eng] 50-6226
- Estimating the vertical dimension of convective cloudiness over the polar ocean from AVHRR data. Manschke, A., [1992,eng] 50-220
- Estimation of surface albedo from NOAA AVHRR data in high latitudes. Laine, V., et al., [1996,eng] 50-5870
- Evaluation of SMMR satellite-derived snow depth using ground-based measurements. Tait, A., et al., [1996,eng] 50-4016
- Evidence for arctic ozone depletion in late February and early March 1994. Manney, G.L., et al., [1995,eng] 50-4540
- Evolution of water vapor in the southern polar stratosphere. Lahoz, W.A., et al., [1996,eng] 50-5011
- Glaciological studies in the high central Andes using digital processing of satellite images. Llorens, R.E., et al., [1995,eng] 50-3339
- Global identification of snowcover using SSM/I measurements. Grody, N.C., et al., [1996,eng] 50-2704
- Greenland Sea ice variations recorded by spaceborne photography. Mitchelson-Jacob, E.G., [1996,eng] 50-4292
- Ground-based remote sensing of cloud ice particle sizes. Matrosov, S.Y., et al., [1995,eng] 50-3257
- Heat flux from leads in pack ice from a Landsat TM image. Lindsay, R.W., [1994,eng] 50-5179
- Ice content retrieval from clouds using Doppler radar. Sauvageot, H., [1996,eng] 50-2772
- Ice crystal optical properties of cirrus clouds. Gayet, J.F., et al., [1996,eng] 50-3684
- Iceberg observations and estimation of submarine ridges in the western Weddell Sea. Viehoff, T., et al., [1995,eng] 50-1818
- ICESTAR: a spaceborne ice and coastal environment surveillance system. Cavalieri, D.J., et al., [1996,eng] 50-4482
- Improved segmentation of sea ice in radiometric imagery. Simpson, J.J., et al., [1995,eng] 50-3494
- Improved use of passive microwave data for sea ice detection. Heygster, G.C., et al., [1992,eng] 50-225
- Infrared radiometry of optical thickness of clouds in the Arctic. Starnes, K., et al., [1996,eng] 50-5283
- Infrared remote sensing of snow and quartz surfaces. Wald, A.E., [1994,eng] 50-692
- Intercomparison of mesoscale forecasts of aircraft icing using SSM/I retrievals. Tremblay, A., et al., [1996,eng] 50-4524
- Intercomparison of snow retrieval algorithms by means of spaceborne microwave radiometry. Rott, H., et al., [1995,eng] 50-4176
- Intercomparisons of sea ice concentration from SSM/I and AVHRR data of the Ross Sea. Zibordi, G., et al., [1995,eng] 50-938
- Lake ice and its remote sensing monitoring in the Tibetan Plateau. Chen, X.Z., et al., [1995,chi] 50-5634
- Land surface studies and atmospheric effects by satellite microwave radiometry. Aschbacher, J., [1990,eng] 50-6691
- LANDSAT automated mapping of mountain snow cover. Rosenthal, W., et al., [1996,eng] 50-3312
- Meteor-3/TOMS observations of the 1994 ozone hole. Herman, J.R., et al., [1995,eng] 50-3092
- Meteorological satellite instrumentation. Kidder, S.Q., et al., [1995,eng] 50-3154
- Microwave emission from density-stratified antarctic firm at 6 cm wavelength. West, R.D., et al., [1996,eng] 50-4892
- Microwave emission from polar firm. West, R.D., [1994,eng] 50-662

- Microwave imaging of Labrador Sea thin sea ice. Collins, M.J., et al., [1996,eng] 50-2701
- Microwave radiometry for monitoring the diverse cloudiness regimes on Earth: a review. Katsaros, K.B., [1992,eng] 50-227
- Microwave remote sensing of ice sheets by SAR interferometry. Nishio, F., [1995,jpn] 50-1175
- Microwave remote sensing of snow. Koike, T., et al., [1992,eng] 50-3028
- Microwave retrieval algorithm for remote sensing of precipitation. Weng, F., et al., [1992,eng] 50-3566
- Model to retrieve precipitation rate profiles from airborne radar and radiometer measurements. Weinman, J.A., et al., [1992,eng] 50-3571
- Moisture profiling of the cloudy winter atmosphere using combined remote sensors. Stankov, B.B., et al., [1995,eng] 50-158
- Monitoring lead dynamics with ERS-1 synthetic aperture radar imagery. Wackerman, C.C., et al., [1994,eng] 50-1512
- Monitoring snow cover on the Tibetan Plateau using passive microwave satellite data. Robinson, D.A., et al., [1995,eng] 50-4180
- Monitoring soil condition in the northern Tibetan Plateau using SSM/I data. Chang, A.T.C., et al., [1996,eng] 50-6692
- Monitoring winter hydrologic characteristics of lakes by microwave radiometry. Bordonkii, G.S., et al., [1995,eng] 50-1402
- Multi-temporal microwave satellite observations of plains snowpacks. Wankiewicz, A., et al., [1992,eng] 50-3563
- Multisensor observations of winter sea ice in the Greenland Sea. Toudal, L., [1994,eng] 50-1514
- North-East water polynya: satellite observations summer 1992 and 1993. Gudmandsen, P., et al., [1995,eng] 50-1814
- Observational and theoretical studies of solar radiation in arctic stratus clouds. Herman, G.F., et al., [1984,eng] 50-4913
- Oceanic remote sensing and sea ice monitoring. Johannessen, J.A., ed., et al., [1994,eng] 50-1509
- Oscillatory behavior in arctic sea ice concentrations. Gloersen, P., et al., [1996,eng] 50-4300
- Passive microwave remote sensing of snow: volume scattering in antarctic firm. Tsang, L., et al., [1995,eng] 50-4181
- Passive microwave snow research in the Canadian High Arctic. Gan, T.Y., [1996,eng] 50-5540
- Physical climatology of alpine tundra. Scout Mountain, British Columbia, Canada. Saunders, I.R., et al., [1996,eng] 50-4235
- Pixel-scale ground snow survey for passive microwave study of the arctic snow cover. Woo, M.K., et al., [1995,eng] 50-3110
- Plume of the Yukon River in relation to the oceanography of the Bering Sea. Dean, K.G., et al., [1989,eng] 50-3933
- Precision measurements and theoretical calculations for solar ultraviolet radiation. Jokela, K., et al., [1994,eng] 50-3190
- Radar measurements of melt zones on the Greenland ice sheet. Jezek, K.C., et al., [1994,eng] 50-4804
- Radar survey of French Alps snow cover. Bernier, M., et al., [1996,eng] 50-5542
- Radiative properties of cirrus clouds derived from surface interferometric measurements. Beck, G.H., et al., [1996,eng] 50-6569
- Radiometer for the detection of avalanche victims. Šval, M., [1995,eng] 50-4692
- Radiometric data and modeled snowpack conditions for Dye 2, Greenland. Mote, T.L., et al., [1996,eng] 50-4961
- Radiometric detection of ice crystal growth in cirrus clouds. Ou, S.C., et al., [1996,eng] 50-5204
- Radiometric observations of supercooled liquid water within a split front over Sierra Nevada. Heggli, M.F., et al., [1985,eng] 50-4972
- Radiometry of cirrus cloud optical depths and ice crystal sizes. Ou, S.C., et al., [1995,eng] 50-3258
- Radiometry of icy Jovian satellites. Tamppari, L.K., et al., [1995,eng] 50-637
- Radiometry of Scandinavian atmospheric chemistry. Wehr, T., et al., [1995,eng] 50-1332
- Reduction of weather effects in the calculation for sea-ice concentration with the DMSP SSM/I. Cavalieri, D.J., et al., [1995,eng] 50-1867
- Relation between scattering coefficient and radiation flux over land-fast sea ice. Barber, D.G., et al., [1995,eng] 50-1816
- Remote sensing of East Greenland mafic intrusion lithology. Burnie, R.W., et al., [1989,eng] 50-3935
- Remote sensing of sea ice by passive microwave radiometer. Enomoto, H., [1996,jpn] 50-3506
- Remote sensing of sea ice variations in response to atmospheric circulation. Maslanik, J.A., et al., [1995,eng] 50-1815
- Retrieval of cloud liquid water and precipitation from polarized microwave simulations. Bauer, P., et al., [1992,eng] 50-229
- Rocky Mountain snowmelt on talus slopes by radar satellite. Maxfield, A.W., [1996,eng] 50-5544
- SAR observations of arctic freeze-up compared to SSM/I during ARCTIC91. Peterson, M.I., et al., [1996,eng] 50-6694
- Satellite imagery of ice sheet drainage basins, Russian Arctic. Dowdeswell, J.A., et al., [1995,eng] 50-3327
- Satellite imagery of the onset of streaming flow of ice streams C and D, West Antarctica. Hodge, S.M., et al., [1996,eng] 50-4301
- Satellite mapping and monitoring of sea ice. Smith, D.M., et al., [1994,eng] 50-5197
- Satellite measurements of cloud microphysical properties. Poix, C., et al., [1996,eng] 50-4571
- Satellite observation of arctic ozone depletion. Müller, R., et al., [1996,eng] 50-6636

- Satellite observation of lake ice as a climate indicator. Wynne, R.H., et al., [1993,eng] 50-2862
- Satellite radar survey of Japan Sea ice processes. Martin, S., et al., [1995,eng] 50-1810
- Satellite remote sensing of the Arctic Ocean and adjacent seas. Comiso, J.C., [1995,eng] 50-1160
- Satellite remote sensing tools for sea ice engineering. Cavané, A., et al., [1995,eng] 50-184
- Satellite sounding of arctic stratospheric temperatures. Claud, C., et al., [1996,eng] 50-3445
- Sea ice concentrations derived from SMMR and SSM/I. Bjørge, E., et al., [1994,eng] 50-1513
- Sea ice detection at Showa Station from MOS-1 mosaics. Ishida, K., et al., [1996,jpn] 50-5892
- Sea ice radar backscatter and the fusion of active and passive microwave data. Beaven, S.G., [1995,eng] 50-4171
- Sea-ice velocity fields estimation on Ross Sea with NOAA-AVHRR. Motezuma Flores, M., et al., [1995,eng] 50-983
- Shortwave reflectance properties of arctic tundra landscapes. Hope, A.S., et al., [1996,eng] 50-4845
- Snow accumulation rate from synthesis of microwave and altimeter data. Davis, C.H., [1995,eng] 50-162
- Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces. Zibordi, G., et al., [1996,eng] 50-5467
- Snow mass in boreal forests derived from a modified passive microwave algorithm. Foster, J.L., et al., [1995,eng] 50-3718
- Snow monitoring in the United Kingdom using NOAA AVHRR imagery. Lucas, R.M., et al., [1994,eng] 50-167
- Snow recognition and classification using ISOMIX. Li, L.X., et al., [1994,eng] 50-3999
- Snow surveying in Canada: a perspective. Goodison, B.E., et al., [1987,eng] 50-4907
- Some active and passive microwave signatures of antarctic sea ice from mid-winter to spring 1991. Gohin, F., [1995,eng] 50-161
- Some results from geocoding and calibration of ERS-1 SAR FD images in mountainous areas. Johnsen, H., et al., [1995,eng] 50-3717
- Space data from scientific projects. Harries, J.E., [1991,eng] 50-4094
- Spaceborne observation of atmospheric precursors to polar stratospheric cloud formation. Geller, M.A., et al., [1995,eng] 50-4539
- Spaceborne photography of Spitsbergen marginal ice zone. Kergomard, C., [1989,fre] 50-8029
- Spaceborne radiometric determination of cloud structure. Pierdicca, N., et al., [1996,eng] 50-5683
- Spaceborne radiometry of Barents Sea ice cover variations. Bjørge, E., et al., [1994,eng] 50-5077
- Spatial and temporal variability in southern ocean sea ice coverage. Stammerjohn, S.E., [1993,eng] 50-5520
- Spectrometry of atmospheric emission over the South Pole. Van Allen, R., et al., [1996,eng] 50-4328
- SSM/I mapped experimental environmental image products. Donahue, D.R., et al., [1992,eng] 50-3567
- SSM/I time series observations of Great Lakes ice and snow. Pilant, D., [1995,eng] 50-3107
- Study of H₂O contamination on a cooled optical surface. Guo, Q., et al., [1995,eng] 50-6527
- Submillimeter wave attenuation in falling snow. Suzuki, M., et al., [1979,jpn] 50-3940
- Surface temperature from ERS-1 ATSR infrared thermal satellite data in polar regions. Stroeve, J., et al., [1996,eng] 50-6568
- Surface-based studies of microwave arctic sea ice signatures during end of summer and early autumn. Darovskikh, A.N., [1995,eng] 50-2065
- Theoretical basis for passive microwave remote sensing of cirrus. Evans, K.F., et al., [1992,eng] 50-3565
- Upper Atmosphere Research Satellite (UARS) Microwave Limb Sounder (MLS) experiment. Waters, J., et al., [1992,eng] 50-3561
- Use of AVHRR-derived cloudiness and precipitation in weather forecasting. Karlsson, K.-G., [1992,eng] 50-228
- Use of remotely sensed data in the hydrological modelling of the upper Columbia watershed. Kite, G.W., [1996,eng] 50-5538
- User capabilities of the Defense Meteorological Satellite Program. Scharfen, G.R., et al., [1994,eng] 50-4792
- Warm core in a polar low observed with a satellite microwave sounding unit. Forsythe, J.M., et al., [1996,eng] 50-4186
- Wind events compared with polynya area estimates derived from SSM/I data. Markus, T., et al., [1993,eng] 50-5596
- See [also]: Radiation measuring instruments

Radomes

- Icing countermeasures for small parabolic receiving antennas. Suzuki, M., et al., [1977,jpn] 50-5796
- Testing of radome material and special coatings for North Warning System. Crory, F.E., [1988,eng] 50-761

Rafting

See [also]: Ice rafting

Railroad cars

- Development of a vehicle underfloor snow-melting robot. Imai, T., et al., [1995,eng] 50-1970
- Lubrication greases for railroad car bearings at low temperatures. Lundberg, J., et al., [1996,eng] 50-6120

Railroad equipment

- Development of a vehicle underfloor snow-melting robot. Imai, T., et al., [1995,eng] 50-1970
- Lubrication greases for railroad car bearings at low temperatures. Lundberg, J., et al., [1996,eng] 50-6120

Railroad subgrades

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- Railroad subgrades**
See [also]: Subgrades
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Device for loosening snow. Fedorov, V.D., et al. [1992.rus] 50-1909
Machine for removing snow from railroad tracks. Mokin, N.V., et al. [1992.rus] 50-1935
Railroad tracks on ice-rich permafrost. Kondrat'ev, V.G., et al. [1992.rus] 50-1925
- Railroad tunnels**
Artificial freezing in Tokyo subway construction. Ito, H., et al. [1992.eng] 50-37
- Railroads**
Development of transportation centers and communications in northwestern Russia. Koniukhov, A.P., [1995.rus] 50-3078
Drive for a brake system for rail transportation. Rudenko, I.M., et al. [1992.rus] 50-1940
Effect of cryogenic processes on the construction and operation of railroads in Transbaikalia. Shesterneva, M.K., [1993.rus] 50-112
Effect of technogenic disturbances on the thermal regime of soils in Central Yakutia. Skriabin, P.N., et al. [1996.rus] 50-6394
International Petropavlovsk-Kamchatskiy Port. Semenikhin, I.A.N., et al. [1996.eng] 50-4489
Railway on permafrost in Siberia. Gravesen, H., et al. [1995.eng] 50-2960
Scientific basis for the construction of railroads. Pereselenkov, G.S., [1995.rus] 50-3082
Sliding of the slope of railway embankment in permafrost region and its treatment. Wang, W.B., [1989.chi] 50-1395
Strengthening railroad roadbed bases constructed on icy permafrost soils. Kondrat'ev, V.G., [1996.eng] 50-6164
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See [also]: Railroads
- Rain**
Aerial component of the soil-formation substrate in the southern part of the Maritime Territory. Elpatievskii, P.V., et al. [1995.eng] 50-3876
Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996.rus] 50-6382
Effect of breakup of melting snowflakes on the resulting size distribution of raindrops. Fujiyoshi, Y., et al. [1996.eng] 50-6724
Estimating snowmelt runoff erosion indices for Canada. Hayhoe, H.N., et al. [1995.eng] 50-967
Exceptional storm and its effects in the Canadian High Arctic. Cogley, J.G., et al. [1976.eng] 50-3679
Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995.eng] 50-3125
Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995.eng] 50-6043
Ice accretion in freezing rain. Jones, K.F., [1996.eng] 50-2245
Lidar detection of the transition from snowflakes to rain. Sassen, K., et al. [1996.eng] 50-5282
New look at the melting layer. Drummond, F.J., et al. [1996.eng] 50-4145
Remote sensing in hydrology and water management. Haefer, H., et al. [1992.eng] 50-621
Retrieval of cloud liquid water and precipitation from polarized microwave simulations. Bauer, P., et al. [1992.eng] 50-229
- Raindrops**
On snow crystals with small raindrops observed in Greenland. Harimaya, T., et al. [1993.eng] 50-6039
Precipitation gauge. Weydert, M., et al. [1990.ger] 50-3384
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- Records (extremes)**
Conditions for the formation of extreme average daily air temperatures in the fall in the Kara Sea. Korzhikov, A.I.A., [1990.rus] 50-321
Heavy snowfalls around Sapporo the winter of 1995/1996. Kanemura, N., et al. [1996.jpn] 50-4929
On forecasting extreme average daily air temperatures in the Kara Sea. Korzhikov, A.I.A., [1990.rus] 50-324
Recent trends in maximum and minimum temperature threshold exceedences in the northeastern United States. DeGaetano, A.T., [1996.eng] 50-6572
Snow records in Nagasaki, 1913-1992. [1993.eng] 50-488
Snowpack water equivalent statistic derived from an observer network. Wilks, D.S., et al. [1996.eng] 50-5199
Tree ring value determination of climatic change in Switzerland. Vogel, R.B., et al. [1996.ger] 50-6714
- Recrystallization**
Antifreeze proteins and their potential use in frozen foods. Griffith, M., et al. [1995.eng] 50-5691
Ice textures in an ice core from the Guliya Ice Cap. Huang, M.H., et al. [1995.eng] 50-4514
Time dependence of dislocation arrays in ice during recrystallization. van der Elken, J., et al. [1996.eng] 50-6346
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- Reflection**
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Algorithm for radiometric image mapping of global snow cover. Hall, D.K., et al. [1995.eng] 50-1809
Bistatic scattering of radiowaves by a melting layer of precipitation. Zhang, W., et al. [1996.eng] 50-6335
Characteristics of sound reflected from sea ice. Aleksandrov, I.A., et al. [1995.eng] 50-3153
Cirrus infrared parameters and shortwave reflectance relations from observations. Spinhirne, J.D., et al. [1995.eng] 50-5162
Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar. Zeng, X.X., et al. [1995.eng] 50-1804
Detection of weakly precipitating winter clouds by a NOAA 404-MHz wind profiler. Orr, B.W., et al. [1996.eng] 50-5164
Development of a portable ice-thickness measuring instrument. Glynn, D.P., et al. [1992.eng] 50-4908
Elliptical halos, Bottlinger's rings, and the ice-plate snow-star transition. Trankle, E., et al. [1996.eng] 50-4612
Intercomparisons of sea ice concentration from SSM/I and AVHRR data of the Ross Sea. Zibordi, G., et al. [1995.eng] 50-938
Laboratory infrared spectra (2.3-23 μm) of SO₂ phases: applications to Io surface analysis. Nash, D.B., et al. [1995.eng] 50-1463
LANDSAT automated mapping of mountain snow cover. Rosenthal, W., et al. [1996.eng] 50-3312
Mesoscale structures along wind-parallel bands in lake-effect snows. Kristovich, D.A.R., [1993.eng] 50-5249
Model to retrieve precipitation rate profiles from airborne radar and radiometer measurements. Weinman, J.A., et al. [1992.eng] 50-3571
Polarimetric radar at attenuated wavelengths as a hydrological sensor. Sauvageot, H., [1996.eng] 50-5166
Potential of using spaceborne millimeter wavelength radar for ice cloud studies. Matrosov, S.Y., et al. [1994.eng] 50-1113
Radar image tracking and its use in a short-term snowfall prediction system. Neill, P.P., et al. [1993.eng] 50-5248
Radiative properties of finite inhomogeneous cirrus clouds: Monte Carlo simulations. Chylek, P., et al. [1995.eng] 50-1471
Radiometry of icy Jovian satellites. Tamppari, L.K., et al. [1995.eng] 50-637
Rocket flight cloud seeding during hail suppression experiments. Lacaux, J.P., et al. [1995.eng] 50-4971
Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces. Zibordi, G., et al. [1996.eng] 50-5467
Sound reflection from ice cover. Kudrashov, V.M., [1996.eng] 50-4627
Spectra of mixed ices on Io. Dahmani, R., et al. [1996.eng] 50-6071
Temporal evolution of under ice reflectivity. Laible, H.A., et al. [1996.eng] 50-4591
Thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. Björnson, H., et al. [1996.eng] 50-4888
Ultraviolet (A) and short-wave radiation on the Juneau Icefield, Alaska. Quakenbush, T., et al. [1992.eng] 50-363
Utility of imaging spectrometry for lithologic mapping in Greenland. Rivard, B., et al. [1992.eng] 50-1651
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Complex refractive indices in the infrared of nitric acid trihydrate aerosols. Richwine, L.J., et al. [1995.eng] 50-1188
Condensation on cooled surfaces of optical devices at the cosmic conditions. Drobyshchev, A., et al. [1992.eng] 50-624
Distribution of water in halite oceans. Chylek, P., et al. [1984.eng] 50-4495
Distributions of volcanic aerosols in antarctic polar stratospheric clouds. Adriani, A., et al. [1995.eng] 50-2848
Effective permittivity microwave model for wet and frozen soils. Boiarukii, D.A., et al. [1995.eng] 50-4215
Experimental study on the melting transition at interface between ice crystal and substrate. Furukawa, Y., et al. [1994.eng] 50-3072
Feasibility of infrared sensing of Martian cloud and surface ices. Johnson, B.R., et al. [1996.eng] 50-3865
High-pressure Brillouin scattering and elastic properties of liquid and solid methane. Shimizu, H., et al. [1996.eng] 50-5682
Ice plate absorption of infrared radiation. Popov, A.A., et al. [1994.eng] 50-1284
North Polar stratospheric cloud dynamics. Rosen, J.M., et al. [1990.eng] 50-4723
- On the particle characteristics of PSCs inferred from polarimetric experiment. Masłowska, A., et al. [1994.eng] 50-1114
On the scattering behaviour of bullet-rosette and bullet-shaped ice crystals. Strauss, B., [1996.eng] 50-6228
Phase function calculations of single hexagonal bullet-like ice crystals. Liu, C.L., et al. [1995.eng] 50-4345
Radar and radiation properties of ice clouds. Atlas, D., et al. [1995.eng] 50-1246
Refractive index and density of vapor-deposited ice. Berland, B.S., et al. [1995.eng] 50-3096
Refractive index of ice in the 1.4-7.8-μm spectral range. Gosse, S., et al. [1995.eng] 50-3358
Refractive index of vapor-deposited ice. Brown, D.E., et al. [1996.eng] 50-5300
Refractive-index measurements of natural air-hydrate crystals in an antarctic ice sheet. Uchida, T., et al. [1995.eng] 50-977
- Refrigeration**
Geocryological conditions for power plant foundations in Russia. Krivonogova, N.F., et al. [1991.eng] 50-1736
Modeling of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996.eng] 50-6715
OTH-backscatter power plant foundation design for warm, ice-rich permafrost soils. Foster, M.L., et al. [1991.eng] 50-1735
Performance of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al. [1996.eng] 50-3408
Preliminary assessment of design and performance of frost susceptibility testing facilities. Dudek, S., [1977.eng] 50-2313
Protection of arctic bridge crossing by refrigerated foundation. Christopherson, A.B., et al. [1991.eng] 50-1734
Testing facilities—self refrigerating units. Frost cabinet temperature distribution. Hill, J., [1977.eng] 50-2314
Transport of natural gas as frozen hydrate. Gudmundsson, J.S., et al. [1995.eng] 50-170
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- Regulation**
Basal debris entrainment of Canadian arctic glaciers. Zdanowicz, C.M., et al. [1996.eng] 50-6247
Basal ice facies and their formation in the western Alps. Hubbard, B., et al. [1995.eng] 50-2805
Characteristics of basal ice at Engabreen, northern Norway. Jansson, P., et al. [1996.eng] 50-6248
Experimental investigations of the behavior of ice at the contact zone. Timco, G.W., et al. [1995.eng] 50-3807
Field observations of sun crust formation in Hokkaido, Japan. Ozeki, T., et al. [1996.eng] 50-5500
Mesoscale and microscale structure of a severe ice peller storm. Hanesiak, J.M., et al. [1995.eng] 50-1526
Pressure melting and ice skating. Colbeck, S.C., [1995.eng] 50-408
Radar measurements of melt zones on the Greenland ice sheet. Jezek, K.C., et al. [1994.eng] 50-4804
Relevance of glacial bed debris to glacial mechanics. Gow, A.J., et al. [1996.eng] 50-6251
Subglacial ice accretion in an Alaskan glacier. Strasser, J.C., et al. [1996.eng] 50-6250
- Regional planning**
1996 IASC meeting report. International Arctic Science Committee. [1996.eng] 50-4962
Alaska pipeline oil spill contingency plan. Aliyevskaya Pipeline Service Company, Anchorage, AK. [1991.eng] 50-850
Amelioration of saline land in Xinjiang oases. Wang, G.F., et al. [1991.chi] 50-5119
Anchorage, Alaska's wetlands management plan. Salvesen, D.A., [1995.eng] 50-1683
Assessing and responding to the effects of climate change on forest ecosystems. Spillhouse, D.L., [1996.eng] 50-4068
Bare poles: building design for high latitudes. Strub, H., [1996.eng] 50-4963
Beaufort Sea Planning Area Oil and Gas Lease Sale 144. Final environmental impact statement. U.S. Department of the Interior. Minerals Management Service. Alaska Outer Continental Shelf Region. [1996.eng] 50-4552
Biodiversity of Canadian forests, with particular reference to the west coast forests. Boyle, T.J.B., [1996.eng] 50-4071
Chaudière Island proposed snow dumping facility: an environmental appraisal. Lopez, K., et al. [1981.eng] 50-1200
Cold regions utilities monograph. Third edition. Smith, D.W., ed., et al. [1996.eng] 50-6424
Cold-related electric power system considerations. Aspin, J., et al. [1996.eng] 50-6143
Countermeasures in the snow belt. Okada, H., [1995.jpn] 50-993
Current conditions and countermeasures in the snow belt. [1985.jpn] 50-2036
Current conditions and countermeasures in the snow belt. [1988.jpn] 50-2037
Current conditions and countermeasures in the snow belt. [1991.jpn] 50-2038
Current policy of the Russian Federation regarding development and management of the Northern Sea Route System. Arikainen, A.I., et al. [1996.eng] 50-4450
Debris flows in the eastern Qinghai-Xizang Plateau. Tang, B.X., et al. [1994.eng] 50-4785
Developing the U.S. Coast Guard's Airborne Dispersant Delivery System capability. Bleicher, D., et al. [1995.eng] 50-5722
Development of energy sources for the Qinghai-Xizang Plateau. Tong, W., [1992.chi] 50-1480
Development of transportation centers and communications in northwestern Russia. Koniukhov, A.P., [1995.rus] 50-3078

Regolith

- Digital terrain information and its application in Nagqu area of Xizang. Lu, A.X., et al. [1995,chi] 50-3985
- Ecology and conservation management of cool temperate rainforest in Tasmania. Brown, M.J., et al. [1996,eng] 50-4069
- Economic development strategy and regionalization of Xizang. Ni, Z.B., [1992,chi] 50-1477
- Economic geography of the Inner Mongolia Autonomous Region. Gang, G.E., ed. et al. [1992,chi] 50-2171
- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: progress and prospects. Tenhunen, J.D., et al. [1996,eng] 50-4857
- Elaboration of a cadastre of avalanche paths in the Catalan Pyrenees. Marti, G., et al. [1995,eng] 50-4655
- Environmental degradation in the northeastern Qinghai-Xizang Plateau. Zheng, Y.C., [1994,eng] 50-4786
- Exxon Valdez Oil Spill Restoration Plan. Final environmental impact statement. Exxon Valdez Oil Spill Trustee Council. Anchorage, AK. [1994,eng] 50-369
- Exxon Valdez Oil Spill Restoration Plan. Exxon Valdez Oil Spill Trustee Council. Anchorage, AK. [1994,eng] 50-398
- Forest resources in Xinjiang. Xinjiang Resources Development Comprehensive Survey Team of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang ziyuan kaifa zonghe kaoshidui). [1989,chi] 50-5823
- Forest resources of Qinghai. Sun, X.R., ed. et al. [1988,chi] 50-5822
- Forty years of disaster mitigation in Xinjiang. Zhu, L.R., ed. et al. [1993,chi] 50-4166
- From Anik to MSAT: bringing modern communications to the North. Pool, A., [1996,eng] 50-2446
- Fuzzy mathematics in evaluating the tillability of land in Xinjiang. Ji, F., [1991,chi] 50-5109
- General summary of the "Xinjiang 1:1,000,000 land resources map". Ji, F., et al. [1991,chi] 50-5108
- High-latitude rainforests and associated ecosystems of the west coast of the Americas. Lawford, R.G., ed. et al. [1996,eng] 50-4060
- Ice hydraulic investigation for the snow disposal structure. Ottawa River. McNeely Engineering Consultants Ltd., Ottawa, Ontario. [1981,eng] 50-1199
- Icenet: hydro power for Europe. De Jong, D.J., [1995,eng] 50-2969
- Illustrated Hokkaido forestry—towards well-developed forests. [1990,jpn] 50-2170
- Impact of climate change on snow conditions in the French Alps. Martin, E., et al. [1995,fre] 50-4693
- Impact of federal programs on wetlands, Vol.2. U.S. Department of the Interior. [1994,eng] 50-1670
- Implications of patch dynamics for forested ecosystems in the Pacific Northwest. Bradshaw, G.A., et al. [1996,eng] 50-4067
- Investigation of proposed snow dump facility. Gore & Storrie Limited. Ottawa, Ontario. [1983,eng] 50-1197
- Japanese and snow. Yoshino, M., [1988,jpn] 50-2044
- Land classification, land structure and comprehensive natural zonation of Xinjiang. Fan, Z.L., et al. [1991,chi] 50-5107
- Land in Xinjiang conducive to poplar tree farming. Jia, Z.J., et al. [1991,chi] 50-5110
- Logging effects on an aquatic ecosystem on Vancouver Island. Hetherington, E.D., [1996,eng] 50-4070
- Logistics in remote areas in Greenland. Andersson, T.I.H., et al. [1995,eng] 50-2967
- Low-yield land and its amelioration in Xinjiang. Zhang, B.Q., et al. [1991,chi] 50-5118
- Modeling of powder snow avalanches: possibilities for use in regulatory zoning of natural hazards. Bouvet, P., et al. [1995,fre] 50-4652
- Municipal solid waste characterization in a cold remote region. Ogbé, A.A., et al. [1996,eng] 50-6172
- Natural resources of Inner Mongolia. Eer, D., ed. [1987,chi] 50-2290
- New environmental database mapping for oil spill response in Alaska. O'Brien, D.K., et al. [1995,eng] 50-5719
- Northern Sea Route and the regional development in the North. Højfædt, S.I., [1996,eng] 50-4441
- On strategy of exploiting resources and their performance in Qinghai Province. Chen, Z.J., [1992,chi] 50-1478
- Optical processing of satellite images for land use planning in north central China. Liu, J.H., [1995,chi] 50-3996
- Painting fuel storage facilities with local labor in Nunavut. Prinsloo, H.F., [1996,eng] 50-5948
- The physical environment, its utilization and conservation of the Karakoram and Kunlun Mts. region. Zheng, D., [1992,chi] 50-1483
- Possibilities of regional development by snow utilization. Taneda, M., [1988,jpn] 50-2280
- Private enterprise employment of Greenlanders at Thule Air Base. Sørensen, P.E., [1995,eng] 50-2970
- Proceedings of the first symposium on the Qinghai-Xizang Plateau. China Society of Qinghai-Xizang Plateau Research. Symposium, 1st. Mar. 1990. [1992,chi] 50-1475
- Proceedings. Management of the Boreal Forest. Anchorage, AK. Dec. 3-4, 1987. [1988,eng] 50-68
- Promotion of industry in sparsely populated areas of heavy snow in Ishikawa Prefecture. Gomi, T., ed. et al. [1984,jpn] 50-2035
- Questions in regional and engineering geocryology. Soboleva, I.V., ed. [1983,rus] 50-307
- Rangelands of Xizang (Tibet). Mou, X.D., et al. [1992,chi] 50-2296

- Report on establishing an interdisciplinary polar institute in Denmark. Denmark. Ministeriet for Grønland (Ministry for Greenland). [1985,dan] 50-4551
- Report on the proposed snow dumping facilities. Ottawa River. McNeely Engineering Consultants Ltd., Ottawa, Ontario. [1980,eng] 50-1201
- Research on the natural resources and environment of the Ordos Plateau in Inner Mongolia. Li, B., ed. et al. [1990,chi] 50-2011
- Research recommendations from the previous conference, 7th. 1994. Kinney, T.C., et al. [1996,eng] 50-6123
- Risk assessment of offshore oil spills. LaBelle, R.P., [1990,eng] 50-470
- Satellite imagery for soil conservation in the loess plateau. Wang, C.Y., ed. et al. [1990,chi] 50-4165
- Shoreline monitoring following the Exxon Valdez incident. Owens, E.H., et al. [1990,eng] 50-480
- Significance of social trends and snow cover. Oishi, T., [1988,jpn] 50-2050
- Significance of the NSR for regional development in arctic areas of Russia. Granberg, A.G., [1996,eng] 50-4442
- Snow and industry. Itakura, K., [1988,jpn] 50-2051
- Snow and living conditions. Yoshino, M., ed. [1988,jpn] 50-2043
- Snow disposal sites—the Regional Municipality of Ottawa-Carleton experience. Becking, J.J., [1986,eng] 50-1196
- Snow disposal study for the designated growth centres. McNeely Engineering Consultants Ltd., Ottawa, Ontario. [1990,eng] 50-1153
- Snow hazard information system in Slovenia. Horvat, A., [1995,eng] 50-4653
- Soils of the agricultural areas of Bayingolin Mongol Autonomous Prefecture in Xinjiang. Li, S.H., [1991,chi] 50-5120
- Solid waste management in rural Alaska. Hansen, H.M., et al. [1996,eng] 50-6171
- State of Alaska's participation in spill response and preparedness in the state. Vogt, D., [1992,eng] 50-87
- Study of remote sensing application in the loess plateau of north Shaanxi Province. Chinese Academy of Sciences. Institute of Remote Sensing Applications. Beijing (Zhongguo kexue yuan Yaogan yingyong yanjiusuo). [1991,chi] 50-6646
- Study on integrated system design for regional development in snowy regions. [1989,jpn] 50-2039
- Study on snow disaster monitoring using remote sensing in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3978
- Study on the avalanche hazard in the central Spanish Pyrenees (Aragon region). Sáez Alagón, M.T., et al. [1995,fre] 50-4682
- Suggested improvements to oil spill response planning. Owens, E.H., [1990,eng] 50-479
- Technology assessment on systems for conquering and exploiting snow. [1987,jpn] 50-2289
- Telecommunications in Greenland: also for offshore activities. Malmberg, P., [1995,eng] 50-2968
- Tracks of forest roads in the privately owned forests of Hokkaido. [1990,jpn] 50-2294
- Trends of the times related to snow. Yagasaki, T., [1988,jpn] 50-2049
- Using computers for MSS image analysis in land use classification. Cheng, X.J., et al. [1991,chi] 50-5111
- Utilization and protection of natural resources in the Hengduan Mountains region. Li, M.S., [1992,chi] 50-1482
- Regolith**
- Chemical sputtering could produce sodium vapor and ice on Mercury. Poner, A.E., [1995,eng] 50-3093
- Compaction tests to simulate icy satellite regolith physics. Leliwa-Kopystyński, J., et al. [1995,eng] 50-5200
- Electrolytical processes in dirty planetary ices. Drobyshevskii, E.M., et al. [1995,eng] 50-655
- Erosion on Titan: past and present. Lorenz, R.D., et al. [1996,eng] 50-5832
- First observational evidence for condensation of Io's SO₂ atmosphere on the nightside. Buratti, B.J., et al. [1995,eng] 50-2154
- Impact crater lakes on Mars. Newsom, H.E., et al. [1996,eng] 50-5777
- Laboratory infrared spectra (2.3-23 μm) of SO₂ phases: applications to Io surface analysis. Nash, D.B., et al. [1995,eng] 50-1463
- Nunataks of the last ice sheet in northwest Scotland. McCarrroll, D., et al. [1995,eng] 50-3366
- O₂ on Ganymede: spectral characteristics and plasma formation mechanisms. Calvin, W.M., et al. [1996,eng] 50-4256
- Radiometry of icy Jovian satellites. Tampari, L.K., et al. [1995,eng] 50-637
- Satellite regolith frozen ground collapse as solar system geological paradigm. Moore, J.M., et al. [1996,eng] 50-6588
- Seasonal nitrogen cycles on Pluto. Hansen, C.J., et al. [1996,eng] 50-4347
- SO₂ distributions on Io. Sartoretti, P., et al. [1996,eng] 50-6529
- Spectra of mixed ices on Io. Dahmani, R., et al. [1996,eng] 50-6071
- State of SO₂ on Io's surface. Kerton, C.R., et al. [1996,eng] 50-4257
- Volcanic and tectonic history of Enceladus. Kargel, J.S., et al. [1996,eng] 50-3864
- Reinforced concretes**
- Bond between a reinforcement bar and concrete at low temperatures. Vandewalle, L., [1995,eng] 50-2687

Remanent magnetism

- Carbon fiber-reinforced concrete. Chen, P.W., [1994,eng] 50-685
- Cathodic protection in North America: field results in high and low temperature environments. Bennett, J.E., et al. [1995,eng] 50-2661
- Chloride problems in UK highway structures. Mawhinney, M., [1995,eng] 50-2660
- Combined effect of acid and deicer solutions on fiber-reinforced hardened cement pastes. Fujii, T., [1995,eng] 50-2677
- Concrete under severe conditions: environment and loading. Sakai, K., ed. et al. [1995,eng] 50-2618
- Concrete/reinforcing steel bond strength of low-temperature concrete. Schroeder, H.P., et al. [1996,eng] 50-4757
- Deterioration in concrete bridges at the seashore in cold regions. Shoya, M., et al. [1992,eng] 50-2754
- Durability of microfiber-reinforced mortars. Pigeon, M., et al. [1996,eng] 50-4736
- Fracture of fiber reinforced concrete under impact. Bantia, N., et al. [1995,eng] 50-2691
- Freeze-thaw studies on concrete structural elements. Ganga Rao, H.V.S., et al. [1993,eng] 50-5053
- Full scale test on impact resistance of PC girder. Sato, M., et al. [1995,eng] 50-2690
- High performance slag ash concrete. Pavlenko, S.I., [1995,eng] 50-2680
- Mechanism of deterioration of concrete under severe environment. Podvalnyi, A.M., [1995,eng] 50-2686
- Microstructure durability of concretes exposed to arctic conditions. Sarkar, S.L., et al. [1995,eng] 50-2664
- Migrating corrosion inhibitors for reinforced concrete. Miksic, B., et al. [1996,eng] 50-5947
- Pavement repairs with metallic glass fiber reinforced concrete. Granju, J.L., et al. [1992,eng] 50-2755
- Private companies subcontract to CRREL. Chalmers, P., [1995,eng] 50-1099
- Proceedings. ACI International Conference on Evaluation and Rehabilitation of Concrete Structures and Innovations in Design. Hong Kong, Dec. 2-6, 1991. [1992,eng] 50-2752
- Protection against chloride-induced corrosion. Berke, N.S., et al. [1988,eng] 50-4229
- Shock absorption using reinforced concrete slab. Mikami, H., et al. [1995,eng] 50-2689
- Some behaviour of frost resistance of water permeable concrete. Tokushige, H., et al. [1995,eng] 50-2681
- Steel and steel reinforced concrete spans of modern bridges. Platonov, A.S., et al. [1995,rus] 50-3084
- Strength and toughness of fiber reinforced concrete at low temperatures. Bantia, N., et al. [1995,eng] 50-2685
- Strengthening and reinforcing concrete with composites. Dutta, P.K., et al. [1995,eng] 50-2467
- Studies of shotcrete using ultra rapid hardening cement, steel fiber, and silica fume. Masuda, Y., et al. [1992,eng] 50-2756
- Test methods for abrasion of concrete structures by ice. Hara, F., et al. [1995,eng] 50-2654
- Use of a new glass-fiber rod as reinforcement for concrete structures. Chaallal, O., et al. [1992,eng] 50-2757
- Relaxation (mechanics)**
- Cryogenic properties of polymers. Yano, O., et al. [1995,eng] 50-1550
- Crystallisation and the glass transition in suspensions of hard colloidal spheres. van Meegen, W., [1995,eng] 50-1223
- Depolarized light scattering spectroscopy of glassforming liquids: experimental tests of MCT. Cummins, H.Z., et al. [1995,eng] 50-1222
- Freezing rate effects on colloid viscoelasticity. Sahagian, M.E., et al. [1995,eng] 50-1253
- Liquid-glass transition in a strong glassformer. Torelli, L.M., et al. [1995,eng] 50-1225
- Mode coupling theory of structural relaxations. Götz, W., et al. [1995,eng] 50-1220
- Model of the glass transition. Mansfield, M.L., [1995,eng] 50-1445
- Molecular dynamics investigations of slow relaxations in supercooled liquids. Hansen, J.P., et al. [1995,eng] 50-1226
- Monte Carlo simulation of the glass transition in polymer melts: an application of MCT. Baschnagel, J., [1995,eng] 50-1229
- Numerical studies of Langevin equations for the dynamics of a dense hard sphere fluid. Valls, O.T., et al. [1995,eng] 50-1228
- Quasielastic neutron scattering in glass forming viscous liquids. Petry, W., et al. [1995,eng] 50-1224
- Relaxation dynamics of supercooled polymers. Parthun, M.G., et al. [1995,eng] 50-1572
- Relaxation processes in supercooled carbohydrates. Gangasharan, et al. [1995,eng] 50-1571
- Testing mode-coupling theory for a supercooled binary Lennard-Jones mixture. Kob, W., et al. [1995,eng] 50-1227
- See [also]:* Ice relaxation
- Relief**
- See [also]:* Microrelief; Topographic features
- Remanence**
- See [also]:* Remanent magnetism
- Remanent magnetism**
- Atlantic Ocean sedimentary evidence for Pleistocene ice rafting. Robinson, S.G., et al. [1995,eng] 50-1110
- Comparative analytical techniques for glacial diamicton studies. Walden, J., et al. [1996,eng] 50-6537
- Magnetic analysis of glacialic sediment weathering. Walden, J., et al. [1995,eng] 50-6562
- Magnetic climatology: mineral magnetism and the ice ages. Heller, F., et al. [1996,ger] 50-4743

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- Paleomagnetic age constraints on New Zealand glacial deposits. Fitzsimons, S.J., et al., [1996,eng] 50-6576
- Paleomagnetic constraints on sedimentation rates in the eastern Arctic Ocean. Schneider, D.A., et al., [1996,eng] 50-6707
- Some paleomagnetic study results in the Kuntze Lake region of the Qaidam Basin. An, Z.S., [1986,chi] 50-1993
- Tertiary climate changes in the Russian Far East. Krassilov, V.A., [1994,eng] 50-901
- Vendian glaciations and their relation to the dispersal of Rodinia: paleomagnetic constraints. Torsvik, T.H., et al., [1995,eng] 50-663
- Remote sensing**
- 1993 biennial report. University of Washington. College of Ocean & Fisheries Science. Applied Physics Laboratory, [1993,eng] 50-5203
- Airborne Polar Experiment. CNR Direzione Centrale Attività Scientifiche, [1994,eng] 50-6197
- Algorithm to enhance sea ice concentration estimates from radiometric brightness temperatures. St. Germain, K.M., et al., [1992,eng] 50-3564
- ALOMAR—a new facility for middle atmosphere research at arctic latitudes. Thrane, E.V., et al., [1995,eng] 50-4261
- Altimeter retracking algorithm accuracy for Greenland ice sheet growth. Davis, C.H., [1995,eng] 50-980
- Altimetry of North Atlantic subpolar current variations. White, M.A., et al., [1995,eng] 50-2778
- Antarctic atmospheric moisture values obtained from microwave radiometers. Wada, M., et al., [1992,eng] 50-3568
- Application of passive microwave retrieval algorithms to monitor global snow cover. Armstrong, R.L., et al., [1992,eng] 50-3562
- Application of satellite visible band data to high latitude oceans. Ahlén, K., et al., [1989,eng] 50-3934
- Archive of digital data from the Defense Meteorological Satellite Program (DMSF). Kroehl, H.W., et al., [1994,eng] 50-5076
- Backscattering radar measurements of spherical ice cloud crystals. Prodi, F., et al., [1996,eng] 50-4502
- Bistatic scattering of radiowaves by a melting layer of precipitation. Zhang, W., et al., [1996,eng] 50-6335
- Calibration of a small, low-cost thermal infrared radiometer. Rapiet, C.B., et al., [1996,eng] 50-6623
- Changes in ultraviolet radiation reaching the Earth's surface. Madronich, S., et al., [1995,eng] 50-4197
- Characterizing multi-temporal alpine snowmelt patterns for ecological inferences. Allen, T.R., et al., [1993,eng] 50-1447
- Circulation in the Bering Sea basin observed by satellite-tracked drifters: 1986-1993. Staben, P.J., et al., [1994,eng] 50-2856
- Cloud structure derived from remote sensing measurements. Sassen, K., [1984,eng] 50-4921
- Coherent observation operators for surface data assimilation with application to snow depth. Urban, B., [1996,eng] 50-3008
- Comparison between snow cover products derived from visible and microwave satellite observations. Basist, A., et al., [1996,eng] 50-3007
- Comparison of ice-sheet satellite altimeter retracking algorithms. Davis, C.H., [1996,eng] 50-2703
- Correction of satellite radar altimetry of antarctic ice sheets. Cooper, A.P.R., et al., [1996,eng] 50-5073
- Corrections to paper by Shi et al. Shi, J.C., et al., [1995,eng] 50-1834
- Cryospheric observing systems and data management. Barry, R.G., [1994,eng] 50-3415
- Cryovolcanism on the icy satellites. Kargel, J.S., [1994,eng] 50-1860
- DEM corrected ERS-1 SAR data for snow monitoring in alpine regions. Guneriusson, T., et al., [1995,eng] 50-3716
- Demonstration of seasonal changes in the territory of Finland using multitemporal NOAA-AVHRR data. Andersson, K., [1992,eng] 50-618
- Detecting and monitoring snow cover variability. Barry, R.G., et al., [1995,eng] 50-3314
- Detecting new-ice in the arctic from multispectral satellite data. Martin, T., et al., [1992,eng] 50-224
- Detection and prediction of hail with Meteosat data. Messmer, B., et al., [1995,ger] 50-2539
- Detection of polar stratospheric clouds from satellite. Meerkötter, R., et al., [1992,eng] 50-221
- Detection of polar stratospheric clouds with ERS-2/GOME data. Meerkötter, R., [1995,eng] 50-2150
- Detection of possible aircraft icing in clouds by passive-active radars. Tarabukin, I.A., et al., [1992,eng] 50-3569
- Determination of liquid water altitudes using combined remote sensors. Politovich, M.K., et al., [1995,eng] 50-1414
- Development of an ice information system (IIS) to be implemented at the NERSC. Jacob, A., [1995,eng] 50-2742
- Device for measuring pressure. Zinov'ev, V.A., et al., [1992,rus] 50-1921
- Doppler radar analysis of a severe spring snowstorm. Shields, M.T., et al., [1993,eng] 50-5250
- Doppler spectroscopy of antarctic wind velocities. Nakajima, H., et al., [1995,eng] 50-3811
- Drift of the tabular iceberg Filchner 1986A. Skvarca, P., et al., [1993,spa] 50-3552
- Dual polarization radar observations of thunderclouds in winter season. Sonoi, Y., et al., [1995,eng] 50-4258
- Dynamical influences on the antarctic ozone hole. Harvey, M.W., et al., [1996,eng] 50-6648
- Eight-year time series radiometric measurement of snow and sea ice covers. Ferraro, R.R., et al., [1996,eng] 50-5769

- Electromagnetic induction sounding of sea ice thickness. Kovacs, A., et al., [1996,eng] 50-4959
- Estimating the vertical dimension of convective cloudiness over the polar ocean from AVHRR data. Manschke, A., [1992,eng] 50-220
- Estimation of biomass and other characteristics of boreal forest. Häme, T., et al., [1994,eng] 50-3228
- Estimation of ice hydrometeor types and shapes from radar polarization measurements. Matrosov, S.Y., et al., [1995,eng] 50-3609
- Evaluation of SMMR satellite-derived snow depth using ground-based measurements. Tait, A., et al., [1996,eng] 50-4016
- Expedition ARKTIS X/1 of the research vessel *Polarstern* in 1994. Fahrbach, E., ed., [1995,ger] 50-3157
- Exploring the behaviour of microwaves in a snowpack using modelling techniques. Leconte, R., [1996,eng] 50-5539
- Feasibility of infrared sensing of Martian cloud and surface ices. Johnson, B.R., et al., [1996,eng] 50-3865
- Flow trajectories in the Bering Sea: evidence for chaos. Reed, R.K., et al., [1990,eng] 50-4730
- Forest damage mapping with multitemporal ERS-1 SAR data. Rauste, Y., [1994,eng] 50-3229
- Frontal signals east of Iceland from the GEOSAT altimeter. Robinson, A.R., et al., [1989,eng] 50-4707
- Geologic and hydrogeologic mapping of Iceland with multisensor data. Münzer, U., et al., [1992,eng] 50-617
- Global identification of snowcover using SSM/I measurements. Grody, N.C., et al., [1996,eng] 50-2704
- Greenland ice sheet thickness changes measured by laser altimetry. Thomas, R., et al., [1993,eng] 50-4803
- Greenland Sea ice variations recorded by spaceborne photography. Mitchelson-Jacob, E.G., [1996,eng] 50-4292
- Ground-based remote sensing of cloud ice particle sizes. Matrosov, S.Y., et al., [1995,eng] 50-3257
- Ground-penetrating radar investigation of the proposed dome-CARA tunnel route (South Pole Station). Arcone, S.A., et al., [1995,eng] 50-4543
- Hoods, mists, frosts, and ice caps at the poles of Mars. Dollfus, A., et al., [1996,eng] 50-5194
- Ice content retrieval from clouds using Doppler radar. Sauvageot, H., [1996,eng] 50-2772
- Ice sheet motion and topography from radar interferometry. Kwok, R., et al., [1996,eng] 50-2702
- Ice/snow thickness measuring system. Tank, C.L., et al., [1995,eng] 50-716
- Improved segmentation of sea ice in radiometric imagery. Simpson, J.J., et al., [1995,eng] 50-3494
- Improved use of passive microwave data for sea ice detection. Heygster, G.C., et al., [1992,eng] 50-225
- Infrared remote sensing of snow and quartz surfaces. Wald, A.E., [1994,eng] 50-692
- Lagrangian transport calculations using UARS data. Part II: ozone. Manney, G.L., et al., [1995,eng] 50-365
- Land surface studies and atmospheric effects by satellite microwave radiometry. Aschbacher, J., [1990,eng] 50-6691
- Limiting resolution of ice-sheet elevations derived from pulse-limited satellite altimetry. Wingham, D.J., [1995,eng] 50-461
- Long-term observations for monitoring of the cryosphere. Walsh, J.E., [1995,eng] 50-3350
- Measuring a moving glacier. Sauber, J., et al., [1995,eng] 50-3355
- Meteorological satellite instrumentation. Kidder, S.Q., et al., [1995,eng] 50-3154
- Meteorological support for navigation along the Northern Sea Route. Kondrat'ev, K.I.A., et al., [1994,eng] 50-648
- Method and apparatus for remote detection and thickness measurement of ice or liquid layer. Gagnon, R.E., [1995,eng] 50-3483
- Microwave imaging of Labrador Sea thin sea ice. Collins, M.J., et al., [1996,eng] 50-2701
- Microwave permittivity of dry snow. Mätzler, C., [1996,eng] 50-3887
- Microwave radiometry for monitoring the diverse cloudiness regimes on Earth: a review. Katsaros, K.B., [1992,eng] 50-227
- Microwave retrieval algorithm for remote sensing of precipitation. Weng, F., et al., [1992,eng] 50-3566
- Millimetric radar backscatter from snowcover. Williams, L.D., et al., [1987,eng] 50-6200
- Model to retrieve precipitation rate profiles from airborne radar and radiometer measurements. Weinman, J.A., et al., [1992,eng] 50-3571
- Modeling of backscattering by non-spherical ice particles for the interpretation of cloud radar signals at 94 GHz. An error analysis. Okamoto, H., et al., [1995,eng] 50-3101
- Moisture profiling of the cloudy winter atmosphere using combined remote sensors. Stankov, B.B., et al., [1995,eng] 50-158
- Monitoring soil condition in the northern Tibetan Plateau using SSM/I data. Chang, A.T.C., et al., [1996,eng] 50-6692
- Monitoring winter hydrologic characteristics of lakes by microwave radiometry. Bordonkii, G.S., et al., [1995,eng] 50-1402
- Multi-temporal microwave satellite observations of plains snowpacks. Kankiewicz, A., et al., [1992,eng] 50-3563
- Near-infrared absorption coefficients of solid nitrogen as a function of temperature. Tryka, K.A., et al., [1995,eng] 50-1078
- Noctilucent cloud observations over Greenland by a Rayleigh lidar. Thayer, J.P., et al., [1995,eng] 50-4542

Remote sensing

- NORSMAP '89-Norwegian remote sensing spectrometry for mapping and monitoring of algal blooms and pollution. Pettersson, L.H., et al., [1992,eng] 50-622
- Oceanic satellites in the Global Ocean Observing System. Sherman, J.W., III, [1993,eng] 50-4801
- On the scattered radiation intensity fluctuations for a focused laser beam in snowfall. Vostretsov, N.A., et al., [1994,eng] 50-1285
- Operational use of ERS-1 SAR images in the Canadian ice monitoring programme. Shokr, M.E., et al., [1996,eng] 50-4017
- Parameterization of cirrus optical depth and cloud fraction. Soden, B., [1995,eng] 50-960
- Passive microwave snow research in the Canadian High Arctic. Gan, T.Y., [1996,eng] 50-5540
- Photo-registration of pre- and post-breakdown situations in oil pipelines in Siberia. Eliseev, I.U.B., [1996,rus] 50-6858
- Picking out the pack ice from the air. [1989,eng] 50-5645
- Plume of the Yukon River in relation to the oceanography of the Bering Sea. Dean, K.G., et al., [1989,eng] 50-3933
- Polar Ozone and Aerosol Measurement instrument. Glacum, W., et al., [1996,eng] 50-5765
- Polarimetric detection of objects buried in snowpack by a synthetic aperture FM-CW radar. Yamaguchi, Y., et al., [1996,eng] 50-2700
- POST: Polar Stratospheric Telescope. Bely, P.Y., et al., [1995,eng] 50-2527
- Potential of using spaceborne millimeter wavelength radar for ice cloud studies. Matrosov, S.Y., et al., [1994,eng] 50-1113
- Probing ice sheets with imaging radar. Raney, R.K., [1993,eng] 50-3033
- Problems associated with the occurrence of glacial forms on the bottom of fjords in Spitsbergen. Kowalewski, W., et al., [1989,pol] 50-2879
- Radar image tracking and its use in a short-term snowfall prediction system. Neill, P.P., et al., [1993,eng] 50-5248
- Radar survey of French Alps snow cover. Bernier, M., et al., [1996,fre] 50-5542
- Radio wave scattering from melting snow particles. Zhang, W., et al., [1996,eng] 50-6622
- Radiometry of icy Jovian satellites. Tamppari, L.K., et al., [1995,eng] 50-637
- Remote sensing for global change, climate change and atmosphere & ocean forecasting. European "International Space Year" Conference, Munich, Germany, 30 March-4 April 1992, [1992,eng] 50-219
- Remote sensing ice detection capabilities—East Coast. Rossiter, J.R., et al., [1995,eng] 50-1412
- Remote sensing in hydrology and water management. Haefner, H., et al., [1992,eng] 50-621
- Remote sensing of arctic sea ice using the ERS-1 SAR. Askne, J., et al., [1992,eng] 50-223
- Remote sensing of East Greenland mafic intrusion lithology. Birnie, R.W., et al., [1989,eng] 50-3935
- Remote-sensing data used in a polar atmosphere and cryosphere study. Hirasawa, N., et al., [1995,jpn] 50-1695
- Results from the 1994 Boreal Ecosystem-Atmosphere Study (BOREAS). Sellers, P., et al., [1995,eng] 50-4574
- Retrieval of cloud liquid water and precipitation from polarized microwave simulations. Bauer, P., et al., [1992,eng] 50-229
- Retrieval of thin ice thickness from multifrequency polarimetric SAR data. Kwok, R., et al., [1995,eng] 50-349
- Role of spaceborne millimeter-wave radar in the global monitoring of ice cloud. Brown, P.R.A., et al., [1995,eng] 50-1247
- Saline ice sheet surface scattering with controlled roughness parameters. Bredow, J.W., et al., [1995,eng] 50-982
- Satellite measurements of cloud microphysical properties. Poix, C., et al., [1996,eng] 50-4571
- Satellite observation of lake ice as a climate indicator. Wynne, R.H., et al., [1993,eng] 50-2862
- Satellite radar observations of Beaufort Sea autumn freeze-up. Winebrenner, D.P., et al., [1996,eng] 50-6218
- Satellite systems for hazard monitoring. Barrett, E.C., et al., [1992,eng] 50-619
- Satellite tracking of high-arctic northern fulmars. Falk, K., et al., [1995,eng] 50-718
- Satellites for monitoring climate change. Kelkar, R.R., [1994,eng] 50-4826
- Sea ice concentrations derived from satellite microwave imagery. Lomax, A.S., et al., [1995,eng] 50-1244
- Sea ice in the global climate system: requirements for an ocean observing system. Allison, I., et al., [1995,eng] 50-4248
- Sea ice in the global climate system: requirements for an ocean observing system. Allison, I., et al., [1995,eng] 50-4248
- Search for proxy indicators of young sea ice thickness. Zabel, I.H.H., et al., [1996,eng] 50-4303
- Seismo-acoustic studies in a flooded caldera on Deception Island. Kowalewski, W., et al., [1989,pol] 50-2878
- Snow accumulation rate from synthesis of microwave and altimeter data. Davis, C.H., [1995,eng] 50-162
- Snow mass in boreal forests derived from a modified passive microwave algorithm. Foster, J.L., et al., [1995,eng] 50-3718
- Snow recognition and classification using ISOMIX. Li, L.X., et al., [1994,eng] 50-3999
- Snow surveying in Canada: a perspective. Goodison, B.E., et al., [1987,eng] 50-4907
- Some results from geocoding and calibration of ERS-1 SAR FD images in mountainous areas. Johnsen, H., et al., [1995,eng] 50-3717
- Sounding to determine the thermophysical properties of frozen ground and bedrock. Gavrilov, R.L., [1993,rus] 50-124

Replicas

- South Pole wanders from the straight and narrow. Kiernan, V., [1996,eng] 50-4216
- Space data from scientific projects. Harries, J.E., [1991,eng] 50-4094
- Space in the service of the changing Earth; Remote sensing for environmental monitoring and resource management, Vol.2. European "International Space Year" Conference, Munich, Germany, 30 March-4 April 1992, [1992,eng] 50-616
- Spaceborne observation of atmospheric precursors to polar stratospheric cloud formation. Geller, M.A., et al, [1995,eng] 50-4539
- Spaceborne radar photography of subarctic landscapes. Vachon, P.W., et al, [1995,eng] 50-4091
- Spaceborne radiometric determination of cloud structure. Pierdicca, N., et al, [1996,eng] 50-5683
- Spatial and temporal variability in southern ocean sea ice coverage. Stammerjohn, S.E., [1993,eng] 50-5520
- Spectra of mixed ices on Io. Dahmani, R., et al, [1996,eng] 50-6071
- Spectroscopic study of heavy ozone isotopes in the arctic atmosphere. Meier, A., et al, [1996,eng] 50-3550
- SSM/I mapped experimental environmental image products. Donahue, D.R., et al, [1992,eng] 50-3567
- Studies of the polar middle and lower atmosphere by an MST radar on Svalbard. Rötger, J., et al, [1995,eng] 50-4262
- Study of H₂O contamination on a cooled optical surface. Guo, Q., et al, [1995,eng] 50-6527
- Study of ice spectra in cosmic dust. Brooke, T.Y., et al, [1996,eng] 50-3964
- Studying arctic and subarctic ecosystems of impact regions using remote monitoring methods. Tereshchenkov, O.M., et al, [1994,rus] 50-278
- Submersible remote controlled vehicles for glacier-ocean-sediment study. Dowdeswell, J.A., et al, [1996,eng] 50-4902
- Surface features of interstellar ice. McCoustra, M., et al, [1996,eng] 50-5244
- Surface-based studies of microwave arctic sea ice signatures during end of summer and early autumn. Darovskikh, A.N., [1995,eng] 50-2065
- Terrestrial component of the cryosphere. Melnikov, P.A., et al, [1993,eng] 50-5483
- Theoretical basis for passive microwave remote sensing of cirrus. Evans, K.F., et al, [1992,eng] 50-3565
- Titan's surface: composition and variability from the near-infrared albedo. Coustenis, A., et al, [1995,eng] 50-2031
- U.S. FROST: Data and Science Plan. Report from the U.S. Science FROST Workshop, 2 and 3 August 1993. Bromwich, D.H., ed, et al, [1993,eng] 50-3332
- Unique aircraft icing event—a case study. Peters, J.L., [1990,eng] 50-4404
- Upper Atmosphere Research Satellite (UARS) Microwave Limb Sounder (MLS) experiment. Waters, J., et al, [1992,eng] 50-3561
- Use of ERS-1 SAR data in numerical sea ice modeling. Lep-
päranta, M., et al, [1992,eng] 50-222
- Use of remote sensing spacecraft in real-time support for disaster management. Tortorici Montaperto, A., et al, [1992,eng] 50-620
- Use of remotely sensed data in the hydrological modelling of the upper Columbia watershed. Kite, G.W., [1996,eng] 50-5538
- Use of SAR satellite imagery to measure active layer moisture contents in arctic Alaska. Kane, D.L., et al, [1994,eng] 50-5695
- Use of satellite data for river basin snow cover surveys. Krishna, A.P., [1996,eng] 50-4015
- User capabilities of the Defense Meteorological Satellite Program. Scharfen, G.R., et al, [1994,eng] 50-4792
- Warm core in a polar low observed with a satellite microwave sounding unit. Forsythe, J.M., et al, [1996,eng] 50-4186
- Waveform model for surface and volume scattering from ice and snow. Newkirk, M.H., et al, [1996,eng] 50-3886
- Weather forecasting for antarctic air and sea operations. Wattam, S., et al, [1995,eng] 50-5589
- Wilderness quality mapping in the Euro-Arctic Barents region. Husby, E., et al, [1995,eng] 50-3171

Replicas

- How to paint a snowflake. Benko, J.J., [1995,eng] 50-6205
- Rheology of water ices V and VI. Durham, W.B., et al, [1996,eng] 50-3450
- Variations on the Schaeffer replication technique for snowflakes. Benko, J.J., [1995,eng] 50-3613
- Vitrification of articular cartilage by high-pressure freezing. Studer, D., et al, [1995,eng] 50-6589
- X-ray analysis of ion distribution in frozen salt droplets. Orlovich, D.A., et al, [1995,eng] 50-6590

See [also]: Ice crystal replicas

Reporting

See [also]: Ice reporting

Rescue equipment

- Arctic platform evacuation vehicle. [1990,eng] 50-5588
- Avalanche Balloon System (ABS): for or against? Sivardière, F., et al, [1995,fre] 50-2586
- Experimental investigations on the effectiveness of avalanche balloons. Tschirky, F., et al, [1995,eng] 50-4686
- Guide to polar diving. Jenkins, W.T., [1976,eng] 50-3837
- Radiometer for the detection of avalanche victims. Šval, M., [1995,eng] 50-4692

Rescue operations

- Avalanche rescue dogs. Gouzon, J.P., [1995,fre] 50-2591

- Council of Europe's Open Partial Agreement on Major Hazards. EUR-OPA. Tondre, F., [1995,fre] 50-4645
- Forty years of disaster mitigation in Xinjiang. Zhu, L.R., ed, et al, [1993,chi] 50-4166
- Meeting of the Avalanche Commission, Autrans, France, 1994. International Commission for Alpine Rescue (French version: Commission Internationale pour le Sauvetage Alpin) (German version: Internationale Kommission für Alpenen Rettungsweisen), Birchwil, Switzerland, [1995,ita] 50-2599
- Primer for the avalanche dog leader. [1964,eng] 50-5752
- Report of avalanche accident at Pangka in 1995, Khumbu region, Nepal. Yamada, T., et al, [1996,jpn] 50-4928
- Satellite imagery for avalanche forecasting and rescue. Granica, K., [1995,eng] 50-4168

Research institutions

See [also]: Laboratories

Research projects

- 10th anniversary of the Polar Research Documents Workshop. Krawczyk, A., [1989,pol] 50-2934
- 1993 biennial report. University of Washington. College of Ocean & Fisheries Science. Applied Physics Laboratory, [1993,eng] 50-5203
- 1994-1995 antarctic field season. Roberts, C.A., et al, [1995,eng] 50-2477
- 1996 IASC meeting report. International Arctic Science Committee, [1996,eng] 50-4962
- Airborne Arctic Stratospheric Expedition: prologue. Turco, R.P., et al, [1990,eng] 50-5973
- Airborne Polar Experiment. CNR Direzione Centrale Attività Scientifiche, [1994,eng] 50-6197
- Alberta Hail Project Data Archive available on the World Wide Web. Kochubajda, B., et al, [1996,eng] 50-5201
- ALOMAR—a new facility for middle atmosphere research at arctic latitudes. Thrane, E.V., et al, [1995,eng] 50-4261
- Alpine base for glacier-regime studies in Uzbekistan. Konov-
alov, V.G., [1993,eng] 50-6343
- Annual report 1995. Arctic Institute of North America, [1996,eng] 50-2473
- Annual report 1995. National Snow and Ice Data Center. World Data Center-A for Glaciology, [1995,eng] 50-4604
- Antarctic alternative energy summary. Chiang, E., U.S. National Science Foundation. Office of Polar Programs, [1994,eng] 50-4278
- Antarctic journal of the United States, vol. 29, no.3, [1994,eng] 50-140
- Antarctic journal of the United States, vol.28, no.4, [1993,eng] 50-138
- Antarctic journal of the United States, vol.29, no.1, [1994,eng] 50-139
- Antarctic Walk Environmental Research Expedition, 1991-1993. Yoshikawa, K., ed, et al, [1995,eng] 50-4381
- Arctic and Japan. Fujita, Y., [1996,eng] 50-4421
- Arctic Centre news, 1993, No.2, [1993,eng] 50-3598
- Arctic Centre news, 1993, No.3, [1993,eng] 50-3599
- Arctic Flux Study: a regional view of trace gas release. Weller, G., et al, [1995,eng] 50-3809
- Arctic infrastructure—the need for dedicated Arctic research support. Pittenger, R.F., [1996,eng] 50-6676
- Arctic research at San Diego State University, [1996,eng] 50-5573
- Arctic river database. Global Runoff Data Centre (GRDC), Koblenz, Germany, [1995,eng] 50-6592
- Arctic science, engineering, and education—directory of awards: fiscal year 1994. United States. National Science Foundation, [1994,eng] 50-1553
- Arctic systems: natural environments, human actions, nonlinear processes. International Arctic Science Committee, [1995,eng] 50-5302
- At the center of scientists' attention—problems of biology in northern seas. Matishov, G.G., [1995,rus] 50-4304
- Automatic integrated module installed at Terra Nova Bay. Lori, A., [1994,eng] 50-4281
- Avalanche book. Armstrong, B.R., et al, [1992,eng] 50-863
- Bedrock geologic research in Glacier Bay National Park. Brew, D.A., et al, [1995,eng] 50-3732
- Better visibility needed in snowplowing. [1995,eng] 50-3855
- Biennial report 1993-1994. Alaska. University. Geophysical Institute, [1995,eng] 50-2450
- Biennial report, 1993-1994. Colorado. University. Institute of Arctic and Alpine Research (INSTAAR), [1995,eng] 50-43
- Canadian Atlantic Storms Program: progress and plans of the meteorological component. Stewart, R.E., [1991,eng] 50-4416
- CASP annual report—1 February 1995-31 January 1996. Cambridge Arctic Shelf Programme, [1996,eng] 50-4794
- Chinese participation in the World Data Center for Glaciology, Part 2. Chen, X.Z., et al, [1995,chi] 50-3992
- Chinese participation in the World Data Center for Glaciology. Chen, X.Z., et al, [1995,chi] 50-3991
- Clean-up programme of stations of the Alfred Wegener Institute. Kohnen, H., [1994,eng] 50-4271
- Cold regions engineering research—a strategic plan. Carlson, R.F., ed, et al, [1988,eng] 50-6209
- Command organization on the Severnaya Zemlya archipelago. Petrov, V.N., et al, [1991,rus] 50-1292
- Concrete durability in Iceland. Idorn, G.M., [1988,eng] 50-4228
- Contributions to polar geomorphology by the German Spitsbergen expeditions 1990-1992. Blümel, W.D., [1993,eng] 50-1672

- Danish Polar Center annual report, 1994. Dansk Polarcenter, [1995,eng] 50-659
- Development of environmental database for the Russian Arctic. Kaitala, S., [1995,eng] 50-3178
- Development of geophysical studies of the cryolithozone. Frolov, A.D., [1995,rus] 50-2503
- Development of integrated ecological studies of the cryolithozone. Zabrodin, V.A., et al, [1991,rus] 50-441
- Directory of United States arctic researchers: a preliminary compendium. Galbraith, B., ed, [1996,eng] 50-5657
- Ecological conditions in the Barents Sea (institutes and literature catalogue). Doronin, N., [1992,eng] 50-20
- Ecosystem dynamics of the Bering and Chukchi Seas. Tsyban', A.V., [1995,eng] 50-3608
- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: introduction. Reynolds, J.F., et al, [1996,eng] 50-4839
- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: progress and prospects. Tenhunen, J.D., et al, [1996,eng] 50-4857
- End of season report: Operation Deep Freeze 95/96. U.S. Naval Support Force Antarctica, [1996,eng] 50-5807
- Environment and resources of the Qinghai-Xizang Plateau. Liu, T.S., [1992,chi] 50-1476
- Environmental evaluation of the rebuilding of Signy Station. British Antarctic Survey, [1990,eng] 50-1546
- Environmental factors: conceptual design and current status. Hansson, R., et al, [1996,eng] 50-4436
- Fifteen years of arctic acoustics and ice camps. Von der Heydt, K., et al, [1996,eng] 50-6667
- Fifty years of scientific research at the Chair of Cryolithology and Glaciology (1945-1995). Voikovskii, K.F., et al, [1995,rus] 50-4110
- First data and future prospects for AMANDA, the antarctic muon and neutrino detector. AMANDA Collaboration, [1994,eng] 50-5215
- First Poles in Antarctica—the beginnings of the history of our Antarctic studies. Zalewski, S.M., [1989,pol] 50-2872
- Frost heave research at the University of Nottingham. Jones, R.H., [1977,eng] 50-2312
- Frozen ground. [1995,eng] 50-2445
- Frozen ground. [1996,eng] 50-5661
- Fuel and oil usage in Antarctica. Sayers, J., [1994,eng] 50-4273
- Geocryology research in China in the last decade: review and prospect. Cheng, G.D., [1995,eng] 50-4511
- Glaciological research in Svalbard: a bibliography. Macqueen, A.D., [1993,eng] 50-5208
- Global change research at Glacier Bay National Park. Powell, R.D., [1995,eng] 50-3731
- Global environmental change: the northern North Atlantic. Schäfer, P., et al, [1995,eng] 50-745
- Great Lakes ice cover studies. U.S. National Oceanic and Atmospheric Administration. Great Lakes Environmental Research Laboratory (GLERL), Ann Arbor, MI, [1995,eng] 50-2479
- Greenland Ice-Core Project (GRIP): three years of activity. Maggi, V., et al, [1994,ita] 50-2821
- Helicopter services for USAP and NZAP. Petroleum Helicopters, Inc., [1996,eng] 50-5925
- High-resolution ultraviolet spectral irradiance monitoring in polar regions. Booth, C.R., et al, [1994,eng] 50-4242
- High-resolution ultraviolet spectral irradiance monitoring program in polar regions. Booth, C.R., et al, [1993,eng] 50-593
- High-speed network for communication by voice, data video and fax among three antarctic bases. Blasi, L., et al, [1994,eng] 50-4282
- HIPLEx-1: experimental design and response variables. Smith, P.L., et al, [1984,eng] 50-4918
- History of cold regions heat transfer: chronology. Cheng, K.C., et al, [1996,eng] 50-6433
- History of the exploration of the vascular flora of Greenland. Pringle, J.S., [1995,eng] 50-3413
- Ice algal investigations: historical perspective. Horner, R.A., [1996,eng] 50-6030
- Ice loads on fixed and floating structures: panel report. Croasdale, K.R., et al, [1995,eng] 50-6300
- Ice model test basin opens in Helsinki. [1989,eng] 50-5649
- Ice passage. [1996,eng] 50-4621
- Ice processes at the 1 km scale. Hopkins, M.A., et al, [1995,eng] 50-6297
- Information booklet on the Arctic and Antarctic Research Institute (Russia). Mustafin, N.V., [1993,eng] 50-19
- Integrated ecosystem research in northern Alaska, 1947-1994. Shaver, G.R., [1996,eng] 50-4840
- International Conference on Global Change and Arctic Terrestrial Ecosystems—recommendations. Arctic Global Change Conference, Oppdal, Norway, Aug. 21-26, 1993, [1993,eng] 50-3331
- Isotopic studies on glaciers of the Institute of Geology, Estonian Academy of Sciences, on Spitsbergen. Martma, T., et al, [1989,eng] 50-2913
- Italian research on solifluction in the Alps. Meneghel, M., [1993,eng] 50-827
- Japanese antarctic activities for 1995-1996. Tokyo. National Institute of Polar Research, [1996,eng] 50-2608
- JARE-33 activities in summer 1991-1992 and winter 1992. Fukuchi, M., et al, [1996,jpn] 50-6348
- Large Arctic temperature change in the Holocene. Cuffey, K.M., et al, [1995,eng] 50-629
- Last Russian scientist in Spitsbergen. [1996,eng] 50-3491

Research vessels

- List of publications, No.6, March 1996. Norsk Polarinstitut (Norwegian Polar Institute). [1996.nor] 50-5656
- Mesoscale precipitation structure in winter storms. Ramamurthy, M.K., et al. [1991.eng] 50-4417
- Nagaoka Institute of Snow and Ice Studies. [1992.jpn] 50-489
- National Antarctic Research Program. Cervellati, R., [1994.ita] 50-2823
- NERC Arctic research station. Cox, N., [1996.eng] 50-3705
- New geography of the polar regions: synthesis and perspectives. Orombelli, G., ed, et al. Atti del Convegno della Società Geografica Italiana, Roma, 21-22 Novembre 1991 (Proceedings of the Italian Geographical Society Conference, Rome, 21-22 November 1991). [1994.ita] 50-2817
- Newsletter, No.1, May 1995. International Permafrost Association. [1995.eng] 50-5147
- Newsletter, No.2, Dec. 1986. International Permafrost Association. [1986.eng] 50-5148
- Newsletter, No.3, Dec. 1987. International Permafrost Association. [1987.eng] 50-5149
- Newsletter, No.4, Jan. 1988. International Permafrost Association. [1988.eng] 50-5150
- Newsletter, No.5, Apr. 1989. International Permafrost Association. [1989.eng] 50-5151
- Nordic permafrost—a bibliography. Akerman, H.J., [1993.eng] 50-5304
- NSF: ocean sciences, arctic & global change research. Gross, M.G., [1991.eng] 50-719
- Nuclear submarines and oceanography in the Arctic. DeLaca, T., et al. [1996.eng] 50-3931
- Palmer ecological research program. Smith, R.C., et al. [1995.eng] 50-5944
- Panel report on the 10 km scale—floe cluster. Overland, J.E., et al. [1995.eng] 50-6296
- Plan for a regional ecological atlas of the cryolithozone (in the example of Yakutia). Alekseev, V.R., et al. [1996.rus] 50-6842
- Plan for the Japan-China joint study of the Taklimakan Desert. Japan Science and Technology Agency. Research and Development Bureau. [1991.jpn] 50-1422
- Planned NSF/NOAA arctic research vessel for the United States arctic science community. Kristensen, D.H., et al. [1995.eng] 50-6312
- Polar Club and its activities. Jahn, A., [1989.pol] 50-2871
- Polar research: U.S. policy and interests. Mielke, J.E., [1996.eng] 50-5600
- Political, legal and strategic aspects of the Northern Sea Route. Ushakov, A.P., [1996.eng] 50-4455
- Potential for integrated waste management in the United States Antarctic Program as a model. Juergens, E.D., [1994.eng] 50-4270
- Preliminary assessment of design and performance of frost susceptibility testing facilities. Dudek, S., [1977.eng] 50-2313
- Private companies subcontract to CRREL. Chalmers, P., [1995.eng] 50-1099
- Progress in glaciology and Quaternary glaciation research in China since 1978. Shi, Y.F., et al. [1995.eng] 50-4510
- Progress report on studies to explain the mechanisms of desertification. [1989.jpn] 50-2034
- Prospects for Polish studies in Antarctica. Birkenmajer, K., [1989.pol] 50-2877
- Recovery target: Prudhoe Bay heavy crude oil. [1995.eng] 50-3690
- Regional geocryology (current status, trends and prospects for development). Melnikov, E.S., [1996.rus] 50-6366
- Report on establishing an interdisciplinary polar institute in Denmark. Denmark. Ministeriet for Grønland (Ministry for Greenland). [1985.dan] 50-4551
- Research on new Alaskan mining technology. Chamberlain, P.G., [1991.eng] 50-1715
- Research recommendations from the previous conference, 7th, 1994. Kinney, T.C., et al. [1996.eng] 50-6123
- Results from the 1994 Boreal Ecosystem-Atmosphere Study (BOREAS). Sellers, P., et al. [1995.eng] 50-4574
- Russian alternative energy sources in the Antarctic. Sheinstei, A.S., [1994.eng] 50-4276
- Russian oceanographic expedition in the Kara Sea. Lisitsyn, A.P., et al. [1995.eng] 50-3530
- SARA, an autonomous underwater vehicle for researches in Antarctica. Papalia, B., et al. [1994.eng] 50-5181
- SCAR report No.10, Dec. 1994. Scientific Committee on Antarctic Research. [1994.eng] 50-4041
- SCAR report No.11, Feb. 1996. Scientific Committee on Antarctic Research. [1996.eng] 50-5803
- Science news from The Ice: highlights from the 1994-1995 austral summer. Simarski, L., [1995.eng] 50-6500
- Science of the Siberian region: a discussion in the Presidium of the Russian Academy of Sciences. Mavrina, T.V., ed. [1995.rus] 50-4200
- Scientific plan for a regional research programme in the Arctic on global change. International Arctic Science Committee (IASC). Oslo, Norway. [1994.eng] 50-1508
- Scientist joins elite group. Darling, M., [1996.eng] 50-4620
- Sea ice forecasting for ship routing and operations. Pritchard, R.S., et al. [1995.eng] 50-6301
- Sea ice induced gouging of the sea floor. Weeks, W.F., et al. [1995.eng] 50-6302
- Sea Ice Mechanics Initiative (SIMI) summary plan, FY94-95. [1995.eng] 50-6294
- Sea ice mechanics research. Coon, M.D., et al. [1995.eng] 50-6284

- SIMI (Sea Ice Mechanics Initiative) panel on the 1cm-1m scale. Schulson, E.M., et al. [1995.eng] 50-6299
- Sixtieth birthday of Vladimir Mikhaylovich Kotlyakov. Grosvald, M.G., et al. [1992.eng] 50-3431
- Snow and ice research in Japan during the past 50 years. Nakamura, T., [1995.jpn] 50-606
- Status report on alternative energy systems at antarctic stations. Guichard, A., [1994.eng] 50-6423
- Stratospheric ozone research in Finland, focusing on atmospheric modelling. Rummukainen, M., et al. [1995.eng] 50-1778
- Study of antarctic pack ice. Stevens, J.E., [1995.eng] 50-5154
- Submersible ROBY is tested in Antarctica. Bono, R., et al. [1994.eng] 50-5182
- Summary of Project IGCP-253. Lundqvist, J., et al. [1995.eng] 50-497
- Surveying and mapping program of the United States in Antarctica. Mullen, R.R., et al. [1993.eng] 50-592
- Tips on avoiding low-level icing. Schuyler, N., [1986.eng] 50-4403
- Towards new energy systems for antarctic stations. Guichard, A., [1994.eng] 50-4274
- U.S. arctic policy aims for circumpolar cooperation. Senseney, R., [1995.eng] 50-955
- U.S. Army research camps in northwest Greenland. Tobliason, W., [1968.eng] 50-3882
- United States Antarctic Program. Roberts, C.A., et al. [1994.eng] 50-105
- United States arctic research plan: Biennial revision: 1996-2000. Meyers, C.E., et al. [1995.eng] 50-3243
- US/Japan snow avalanche joint research projects, 1992 and 1993. Nagaoka Institute of Snow and Ice Studies. [1995.jpn] 50-6591
- Weddell ice drift station in Antarctica. Melnikov, I.A., [1995.eng] 50-6689
- Wind energy research in NEMO—research program. Peltola, E., [1992.eng] 50-3627
- Witness the Arctic, vol.3, no.1. Arctic Research Consortium of the United States. [1996.eng] 50-3930
- Witness the Arctic, Vol.3, no.2. Arctic Research Consortium of the United States. [1995.eng] 50-954
- Witness the Arctic. Arctic Research Consortium of the United States. [1995.eng] 50-953
- Working session of the Glaciology Section in April 1971. Golodkovskaya, N.A., et al. [1972.rus] 50-432
- Working session of the Glaciology Section in April 1972. Davidovich, N.V., et al. [1972.rus] 50-520
- Workshop on the study of ice, water and heat balance. Golubev, G.N., et al. [1972.rus] 50-519
- See [also]: Low temperature research; Military research

Research vessels

See [also]: Oceanographic ships

Reservoirs

- Acid stimulation of Endicott Kekikuk Formation, North Slope, Alaska. Hsi, C.K.D., et al. [1991.eng] 50-1751
- Avalanche activity during major avalanche events, a case study for hydroelectric reservoirs. Schaer, M., [1995.eng] 50-4660
- Challenge of West Sak heavy oil: analysis of an innovative approach. Gondouin, M., et al. [1991.eng] 50-1713
- Chlorophyll distribution in a body of fresh water covered with ice. Zavoruev, V.V., et al. [1996.eng] 50-5816
- Conglomerate identification and mapping leads to development success in a mature Alaskan field. O'Sullivan, T.P., et al. [1991.eng] 50-1756
- Core preservation to aid arctic oil reservoir evaluation. MacGregor, K.W., et al. [1991.eng] 50-1740
- Dam construction for Norway's largest hydropower reservoir. Karlsen, L.E., et al. [1995.eng] 50-5707
- Evolving description of a fractured carbonate reservoir: the Lisburne Field, Prudhoe Bay, Alaska. Missman, R.A., et al. [1991.eng] 50-1755
- Exploratory oil drilling in the Beaufort Sea. Cottrill, A., [1986.eng] 50-5651
- Field measurements of ice loads: thermal loads on hydroelectric structures. Comfort, G., et al. [1994.eng] 50-853
- Geostatistical analysis of waterflood recoveries from an Alaskan drillsite. Wolcott, D.S., et al. [1991.eng] 50-1757
- Hydrogen sulfide forecasting techniques for the Kuparuk River Field. Frazer, L.C., et al. [1991.eng] 50-1729
- Impact of Cenozoic uplift on offshore Norwegian hydrocarbon exploration. Doré, A.G., et al. [1996.eng] 50-5327
- Injection profiling in the Kuparuk River Field, Alaska. Scott, H.D., et al. [1991.eng] 50-1741
- Model of protecting the geological environment in the permafrost region. Kagan, A.A., [1995.eng] 50-343
- Oil recovery from Alaskan tar sands using electromagnetic heating. Islam, M.R., et al. [1991.eng] 50-1760
- Optimizing fracture stimulations in the McArthur River oil reservoir, Alaska. Schoffmann, A.B., [1991.eng] 50-1750
- Permafrost formation and aggradation in a 23-m high homogeneous dyke: a case study. Konrad, J.M., et al. [1996.eng] 50-6165
- Problems in protecting the geological environment: in the example of Eastern Siberia. Pinneker, E.V., ed. [1993.rus] 50-91
- Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991. [1991.eng] 50-1696
- Reservoir potential of an upwelling deposit, Prudhoe Bay. Kupecz, J.A., [1995.eng] 50-6551
- Reservoirs of Central Asia. Nikitin, A.M., [1991.rus] 50-2518
- Shaft and Tunnel Access (SATAC) concepts for developing petroleum reserves. Haskin, C.A., et al. [1991.eng] 50-1742

- Waterflood monitoring enhancement of offshore Alaskan oil reservoir management. Starzer, M.R., et al. [1991.eng] 50-1712
- West Siberian oil and the northern sea route: current situation and future potential. Kriukov, V., et al. [1995.eng] 50-6104

Residential buildings

- Fan pressurization measurements by four protocols. Flanders, S.N., [1995.eng] 50-485
- Ground-coupled heat pumps for family housing units. Phetteplace, G., [1995.eng] 50-2459
- Ground-coupled heat pumps. Phetteplace, G., [1995.eng] 50-2465
- Microclimate of agricultural buildings—I. Bodrov, V.I., [1995.rus] 50-3442
- Prospects for the development of the industrial construction base in the Novosibirsk region. Ageenko, N.N., et al. [1995.rus] 50-3085
- Research report on snowproofing of houses. Uchida, Y., ed. [1984.jpn] 50-2291

Resins

- Composition for an anti-icing coating. Bochmanov, A.D., et al. [1992.rus] 50-1920

Resolution

- Algorithm for radiometric image mapping of global snow cover. Hall, D.K., et al. [1995.eng] 50-1809
- Application of passive microwave retrieval algorithms to monitor global snow cover. Armstrong, R.L., et al. [1992.eng] 50-3562
- Demonstration of operational sea-ice monitoring in the Baltic Sea with ERS-1 SAR. Herland, E.A., et al. [1995.eng] 50-1820
- Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al. [1996.eng] 50-4766
- Electron cryo-microscopy of graphite in amorphous ice. Bötcher, B., [1995.eng] 50-1647
- Greenland Sea ice variations recorded by spaceborne photography. Mitchelson-Jacob, E.G., [1996.eng] 50-4292
- Iceberg detection using ERS-1 synthetic aperture radar. Willis, C.J., et al. [1996.eng] 50-5225
- Improved segmentation of sea ice in radiometric imagery. Simpson, J.J., et al. [1995.eng] 50-3494
- LANDSAT automated mapping of mountain snow cover. Rosenthal, W., et al. [1996.eng] 50-3312
- Limiting resolution of ice-sheet elevations derived from pulse-limited satellite altimetry. Wingham, D.J., [1995.eng] 50-461
- Magnetic resonance imaging of frozen plant tissues. Gamble, G.R., [1994.eng] 50-3360
- Mapping the architecture of glaciofluvial sediments with three-dimensional georadar. Beres, M., et al. [1995.eng] 50-2529
- Monitoring soil condition in the northern Tibetan Plateau using SSM/I data. Chang, A.T.C., et al. [1996.eng] 50-6692
- Reduction of weather effects in the calculation for sea-ice concentration with the DMSP SSM/I. Cavalieri, D.J., et al. [1995.eng] 50-1867
- Remote sensing of East Greenland mafic intrusion lithology. Birnie, R.W., et al. [1989.eng] 50-3935
- Spaceborne radar imagery for ice reporting in the Baltic Sea. Hakansson, B., et al. [1995.eng] 50-1821
- Spaceborne radar photography of subarctic landscapes. Vachon, P.W., et al. [1995.eng] 50-4091
- Utility of imaging spectrometry for lithologic mapping in Greenland. Rivard, B., et al. [1992.eng] 50-1651

Resonance

- Comment on paper by Papatsois et al. Hill, S.C., et al. [1996.eng] 50-6336
- Long-term trend in sea ice thickness variation in the Arctic basin. Nagurnyi, A.P., [1995.eng] 50-5479
- On the generation of internal waves beneath sea ice by a moving load. Duffy, D.G., [1996.eng] 50-3825
- Self healing of high strength concrete after deterioration by freeze/thaw. Jacobsen, S., et al. [1996.eng] 50-3725
- Shear moduli and damping in frozen and unfrozen clay by resonant column tests. Al-Hunaidi, M.O., et al. [1996.eng] 50-5817
- Thermal conductivity of normal and deuterated tetrahydrofuran clathrate hydrates. Andersson, O., et al. [1996.eng] 50-2719

Resources

See [also]: Natural resources

Retention

See [also]: Snow retention; Water retention

Revegetation

- Active layer changes following forest tundra fire. Mackay, J.R., [1995.eng] 50-2807
- Afforestation of larch in autumn. Wang, T.X., et al. [1991.chi] 50-5847
- Arcto-alpine and boreal elements in the high altitude flora of north west Himalaya. Gupta, R.K., [1994.eng] 50-5417
- Assessing and responding to the effects of climate change on forest ecosystems. Spillhouse, D.L., [1996.eng] 50-4068
- Biological rehabilitation of disturbed lands in the arctic gas-producing regions. Masalkin, S.D., [1991.eng] 50-1767
- Cleanup assessment of the pipeline oil spill on the Kova River. Sienkiewicz, A.M., et al. [1996.eng] 50-5570
- Collected papers on forest management in the cold temperate zone. Lou, Y.H., ed, et al. [1991.chi] 50-5839
- Computer database on anthropogenic arctic vegetation. Sumina, O.I., [1994.rus] 50-261
- Concepts and criteria of reestablishing natural systems. Tiurin, V.N., [1994.rus] 50-297

Rheology

Rheology

- Condition and recent trends in high-elevation red spruce populations. Peart, D.R., et al. [1992,eng] 50-4053
- Controlling recultivated successions. Teteriuk, B.I.U., [1994,rus] 50-300
- Controlling the density of natural young growth stands of larch. Zhu, L.Y., et al. [1991,chi] 50-5848
- Creation of high-productive seeding meadows on disturbed arctic lands. Tikhmenev, E.A., [1991,eng] 50-1744
- Development of the North and the problem of recultivation. International Conference on the Development of the North and the Problem of Recultivation, 2nd, Syktyvkar, Apr. 25-28, 1994, [1994,rus] 50-251
- Developmental conditions of the Farnham bog, Québec. Lavoie, M., et al. [1995,fre] 50-4885
- Distribution of the high arctic grass, *Phippsia algida*. Grulke, N.E., [1995,eng] 50-78
- Disturbance and recovery of arctic Alaskan vegetation. Walker, D.A., [1996,eng] 50-4841
- Drought and salt resistant plants in arid regions of China. Omasa, K., et al. [1991,jpn] 50-1442
- Ecologic-geographical basis for monitoring technogenic oil and gas polluted territories in the Usinsk region. Evdokimova, T.V., et al. [1994,rus] 50-260
- Ecology and conservation management of cool temperate rainforest in Tasmania. Brown, M.J., et al. [1996,eng] 50-4069
- Effects of seed treatments on germination. Diemand, D., et al. [1994,eng] 50-5836
- Effects of understory alder on forest soil fertility. Wurtz, T.L., [1995,eng] 50-1090
- Effects of vehicle tracks on arctic tundra. Kevan, P.G., et al. [1995,eng] 50-962
- Environmental research project for Yamburg gas fields. Chlenov, A.V., [1991,eng] 50-1766
- Experience in biological recultivation of alluvial sandy soils in the Lena River floodplain. Poklonnaya, L.V., [1994,rus] 50-299
- Experiments on afforestation by aerial seeding in the cold temperate zone. Wang, T.X., et al. [1991,chi] 50-5846
- Forest dynamics and disturbance in the temperate rainforests of the Americas. Veblen, T.T., et al. [1996,eng] 50-4065
- Forest recultivation of disturbed lands in the far northern taiga zone of the Komi Republic. Parfeniuk, V.I., [1994,rus] 50-290
- Forested beach ridge chronosequence on Yakutat foreland, Alaska. Shephard, M.E., [1995,eng] 50-3748
- Glacier process studies at Burroughs Glacier. Mickelson, D.M., et al. [1995,eng] 50-3738
- Grassland ecosystems in eastern Inner Mongolia. Nemoto, M., [1991,jpn] 50-1440
- Growing perennial grasses on dredging grounds in Southern Yakutia. Petrova, A.N., [1994,rus] 50-288
- Growth dynamics and population development in an alpine grassland under elevated CO₂. Schläppli, B., [1996,eng] 50-5779
- Guidelines for managing vegetation on earth-covered magazines within the U.S. Army Materiel Command. Palazzo, A.J., et al. [1994,eng] 50-389
- Herb germination ecology in Yellowstone National Park. Romme, W.H., et al. [1995,eng] 50-2816
- High-latitude rainforests and associated ecosystems of the west coast of the Americas. Lawford, R.G., ed. et al. [1996,eng] 50-4060
- Holocene vegetation history of the eastern Qinghai-Xizang Plateau. Frenzel, B., [1994,ger] 50-4778
- How unique is primary plant succession at Glacier Bay. Walker, L.R., [1995,eng] 50-3749
- Illustrated Hokkaido forestry—towards well-developed forests. [1990,jpn] 50-2170
- Implications of patch dynamics for forested ecosystems in the Pacific Northwest. Bradshaw, G.A., et al. [1996,eng] 50-4067
- Individual-based model of alpine plant distributions. Humphries, H.C., et al. [1996,eng] 50-3151
- Initial phase of postfire forest regeneration in two lichen woodlands of northern Québec. Sirois, L., [1995,eng] 50-2158
- Introduction of *Larix olgensis* into the Greater Khingan Range. Liu, X.T., et al. [1991,chi] 50-5850
- Lake surface pollen sediments across the Siberian tree line. Clayden, S.L., et al. [1996,eng] 50-6746
- Land in Xinjiang conducive to poplar tree farming. Jia, Z.J., et al. [1991,chi] 50-5110
- Late Quaternary vegetation variations in western Beringia. Anderson, P.M., et al. [1996,eng] 50-4341
- Long-term plant persistence on highly acidic soils. Palazzo, A.J., et al. [1995,eng] 50-5593
- Mining engineering recultivation of disturbed land under conditions in the North. Aleksandrov, I.N., et al. [1992,rus] 50-817
- Modeling forest succession at Glacier Bay. Weishampel, J.F., et al. [1995,eng] 50-3744
- Mountain hemlock expansion in a subalpine ecosystem. Taylor, A.H., [1995,eng] 50-3321
- Myth of the classic hydrosere model of bog succession. Klinger, L.F., [1996,eng] 50-4331
- Natural recovery and assisted revegetation in dwarf shrub dominated communities in Greenland. Strandberg, B., [1994,eng] 50-305
- Natural regeneration in cut forests of the Greater Khingan Range. Zhou, W.Q., [1991,chi] 50-5843
- Necessity and means of recultivating disturbed lands in the North. Krivichkov, V.V., [1994,rus] 50-253
- Nitrogen fixers in early primary succession at Glacier Bay. Kohls, S.J., et al. [1995,eng] 50-3747
- On the connexion of vegetation dynamics with climatic changes in High Asia. Miehe, G., [1996,eng] 50-5089
- Paleoecological study of forest lines in southern Sweden. Björkman, L., [1995,eng] 50-6080
- Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st, Burg Wartenstein, Austria, June 8-17, 1979, [1982,eng] 50-3369
- Paleoecology of Swedish bogs. Segerström, U., et al. [1996,eng] 50-4373
- Patterns of early lake ontogeny in Glacier Bay as inferred from diatom assemblages. Fritz, S.C., et al. [1995,eng] 50-3750
- Permafrost soil thawing after forest fires. Swanson, D.K., [1996,eng] 50-5497
- Phyto-recultivation of technologically disturbed lands. Valeeva, E.I., [1994,rus] 50-293
- Possibility of using soil algae in improving disturbed tundra lands. Dubovik, I.E., et al. [1994,rus] 50-280
- Potential climatic change effects on western Canadian forests. Burton, P.J., et al. [1995,eng] 50-769
- Primary succession and future vegetation patterns at Glacier Bay. Chapin, F.S., III, et al. [1995,eng] 50-3743
- Problems of natural reforestation of Dahurian larch (*Larix gmelinii*). Lou, Y.H., [1991,chi] 50-5842
- Proceedings. Glacier Bay Science Symposium, 3rd, Glacier Bay National Park and Preserve, Gustavus, AK, Sep. 15-18, 1993, [1995,eng] 50-3730
- Protection of the vegetation cover in the Far North: problems and prospects. Druzhinina, O.A., et al. [1990,rus] 50-92
- Qualitative successional models in Glacier Bay. Sharman, L.C., et al. [1995,eng] 50-3753
- Rational methods of using and recultivating agricultural terrain in Northeastern Russia. Pugachev, A.A., et al. [1994,rus] 50-287
- Reaction of plant communities to technogenic disturbances in tundras in Yamal. Khitun, O.V., et al. [1994,rus] 50-258
- Recovery characteristics for forest ecosystems after fires. Gorshkov, V.V., et al. [1992,eng] 50-3407
- Recultivating the ecosystems in the Russian Arctic. Zarubin, S.I., et al. [1994,rus] 50-289
- Recultivating vegetative cover in the Far North. Khodachek, E.A., [1994,rus] 50-294
- Reestablishing the trophic function of soils in disturbed territories in the North. Popov, A.I., et al. [1994,rus] 50-275
- Regeneration in cut natural stands of Dahurian larch. Tu, C.H., et al. [1991,chi] 50-5844
- Resource ecology for soil conservation in the cold deserts of the Himalaya. Gupta, R.K., [1994,eng] 50-5426
- Restoration of the burned forest area in the Greater Khingan Range. Cheng, H.Z., [1991,chi] 50-5854
- Restoration of the forest fire disaster area in the Greater Khingan Range. Wang, S.X., [1991,chi] 50-5855
- Revegetation of disturbed tundra in gravel excavation areas. Firsirot, N., et al. [1995,eng] 50-3843
- Revegetation of shrub tundra in disturbed soils. Harper, K.A., et al. [1996,eng] 50-5490
- Revegetation on tracked vehicle paths, Vestspitsbergen. Koroleva, N.E., [1995,eng] 50-2569
- Revegetation trials in Western Siberia: the growth of a cooperative effort. Younkina, W., et al. [1994,eng] 50-306
- Satellite imagery for soil conservation in the loess plateau. Wang, C.Y., et al. [1990,chi] 50-4165
- Satellite radar detection of Alaskan forest ecosystem types. Harrell, P.A., et al. [1995,eng] 50-3493
- Seed rain, seedling establishment and clonal growth strategies on a glacier foreland. Stöcklin, J., et al. [1996,eng] 50-5295
- Selection of cold-tolerant plants for growth in soils contaminated with organics. Rogers, H.B., et al. [1995,eng] 50-4609
- Ski slope vegetation in central Honshu, Japan. Tsuyuzaki, S., [1995,eng] 50-1861
- Soil development on a glacier foreland, Kerguelen Is. Frenot, Y., et al. [1995,eng] 50-71
- Spaced cutting in natural larch stands. Liu, X.T., et al. [1991,chi] 50-5849
- Species interactions during primary succession at Glacier Bay. Fastie, C.L., [1995,eng] 50-3745
- Spruce succession, disturbance, and geomorphology on the Tanana River floodplain, Alaska. Mann, D.H., et al. [1995,eng] 50-2159
- Stable isotopic investigation of nitrogen dynamics at Glacier Bay, Alaska. Hobbie, E.A., et al. [1995,eng] 50-3746
- Strategy for the protection of pine crops in territories being recultivated. Urkina, E.V., et al. [1994,rus] 50-282
- Study on artificial acceleration of natural regeneration. Lou, Y.H., [1991,chi] 50-5845
- Study on predicting the fruit bearing patterns of Dahurian larch. Liu, X.T., et al. [1991,chi] 50-5840
- Study on shortening the seedling growing period for Dahurian larch (*Larix gmelinii*). Zhang, W.Y., [1991,chi] 50-5841
- Succession in the Hudson Bay lowland, northern Ontario, Canada. Klinger, L.F., et al. [1996,eng] 50-5491
- Tall and hard fescue responses to periodic soil water deficits. Brar, G.S., et al. [1995,eng] 50-2475
- Technological effects on tundra ecosystems and the recultivation of disturbed territory. Sumina, O.I., [1992,rus] 50-3406
- Technological improvement of biological recultivation of soils in Komi. Lobovikov, N.N., et al. [1994,rus] 50-291
- Temporal redistribution of subalpine meadow trees. Rochefort, R.M., et al. [1996,eng] 50-4336
- Tree establishment in subalpine meadows. Woodward, A., et al. [1995,eng] 50-3322
- Tree regeneration in Colorado forest-tundra ecosystem. Weisberg, P.J., et al. [1995,eng] 50-3295
- Tree seedling and krummholz growth in the forest tundra of Rocky Mountain National Park. Weisberg, P.J., et al. [1995,eng] 50-72
- Tree-ring chronologies at the upper tree line in eastern Tibet. Bräuning, A., [1994,ger] 50-4780
- Using local peat and stripped rocks from quarries to recultivate lands in the Far North. Rozhdestvenskii, I.U.F., et al. [1994,rus] 50-296
- Vegetation and climate of Holocene megathermal in Zoige, northwestern Sichuan, China. Liu, G.X., et al. [1995,chi] 50-5635
- Vegetation and climatic changes in the Qinghai-Xizang Plateau. Liu, G.X., et al. [1995,chi] 50-5620
- Vegetation chronosequence near Exit Glacier, Kenai Fjords National Park, Alaska, U.S.A. Helm, D.J., et al. [1995,eng] 50-3325
- Vegetation in industrial northeastern Yakutia and its recultivation. Mironova, S.I., [1994,rus] 50-266
- Vegetation of land-bridge Beringia. Young, S.B., [1982,eng] 50-3377
- Vegetation succession in ice age dating. Frenzel, B., [1990,ger] 50-1785
- What the biological recultivation of sandy quarries on Yamal has shown. Gromik, V.D., [1994,rus] 50-295
- Wild flowering plants of the Greater Khingan Range and their value for park projects. Lu, Z., et al. [1991,chi] 50-5852
- See [also]: introduced plants
- Rheology**
- Another look at oil transportation in and from the arctic environment. Marsden, S.S., Jr., et al. [1991,eng] 50-1711
- Asian glacier ice flow and mass continuity. Cherkasov, P.A., et al. [1996,eng] 50-6057
- Asymptotic stability of the viscous-plastic sea ice rheology. Schulkes, R.M.S.M., [1996,eng] 50-4534
- Avalanche modeling in concave and convex chutes. Greve, R., et al. [1993,eng] 50-1209
- Basic processes determining the rheological behavior of plastic-frozen ground under stress. Ukhov, S.B., et al. [1996,rus] 50-6827
- Borehole penetration and expansion devices for ice testing. Ladanyi, B., [1996,eng] 50-5048
- Creep of frozen soil by damage mechanics. Miao, T.D., et al. [1995,eng] 50-1556
- Cryovolcanism on the icy satellites. Kargel, J.S., [1994,eng] 50-1860
- Deformation of ice under low stresses. Sego, D.C., et al. [1982,eng] 50-3787
- Development of the original ice borehole jack. Masterson, D.M., et al. [1996,eng] 50-5051
- Dynamic impact between a viscoelastic ice floe and a rigid structure. Morland, L.W., [1996,eng] 50-3824
- Elasto-delayed-elastic simulation of short-term deflection of fresh-water ice covers. Sinha, N.K., et al. [1996,eng] 50-5474
- Eruption-triggered debris flow on snow-clad volcanoes. Pierson, T.C., [1995,eng] 50-1655
- Field measurements and model calibration in avalanche dynamics. Nettuno, L., [1995,eng] 50-1057
- Flow properties of crushed ice. Singh, S.K., et al. [1995,eng] 50-2999
- Formation of poly(vinyl alcohol) cryogels through polymer solution freezing-thawing. Lozinski, V.I., et al. [1995,eng] 50-1177
- Freezing rate effects on colloid viscoelasticity. Sahagian, M.E., et al. [1995,eng] 50-1253
- Glacial influence on offshore Norwegian sediment properties. Sætem, J., et al. [1996,eng] 50-5320
- Glacial rebound of the British Isles—III: constraints on mantle viscosity. Lambeck, K., et al. [1996,eng] 50-4737
- Ice flow observations along traverse routes from the coast to Dome Fuji. Motoyama, H., et al. [1995,eng] 50-1692
- Ice streams in Antarctica: transverse instability of gravity driven flow. Minale, M., et al. [1996,eng] 50-3722
- Interpretation of subglacially-deformed materials. Benn, D.I., et al. [1996,eng] 50-5583
- Introductory analysis of boundary-layer development on de/anti-icing fluid. Perron, E., et al. [1996,eng] 50-4217
- Large strain finite-element analysis of snow. Meschke, G., et al. [1996,eng] 50-5923
- Late Cenozoic tectonics and the dynamics of the west antarctic ice sheet. Behrendt, J.C., et al. [1994,eng] 50-1884
- Lobal interactions and rheologic superposition in subglacial till near Bradville, Ontario, Canada. Hicock, S.R., [1992,eng] 50-2550
- Mathematical analysis of the flow of soils down a slope. Petrov, V.S., et al. [1993,rus] 50-119
- Mathematical model of synoptic variation in drifting ice cover due to atmospheric factors. Zuev, A.N., [1992,rus] 50-1264
- Mechanical properties of high ice content ground as a composite material. Gerasimov, A.S., et al. [1989,rus] 50-2257
- Modelling and calculating the thermoplastic state of frozen ground. Dubina, M.M., et al. [1991,rus] 50-5054
- Modelling of continuous crushing of ice in front of offshore structures. Brown, T.G., et al. [1995,eng] 50-575
- Moraine observations at the foot of Independence Hills. Ishimaru, S., et al. [1995,eng] 50-4382

Ridges

- New lightweight technology for the primary cementing of oil-field casings in cold environments. Harris, K.L., [1991.eng] 50-1705
- Orientation dependence of elastic constants for ice. Parameswaran, V.R., [1987.eng] 50-4223
- Origin and thermal evolution of icy satellites. Coradini, A., et al., [1995.eng] 50-1069
- Photoviscoelastic modeling of the creep of frozen soil. Zhao, X.S., et al., [1996.eng] 50-6743
- Rheology of water ices V and VI. Durham, W.B., et al., [1996.eng] 50-3450
- Sea ice rheology and sea ice modelling. Tremblay, B., [1993.eng] 50-5185
- Shear margins in glaciers and ice sheets. Raymond, C., [1996.eng] 50-4894
- Simulation of the seasonal arctic sea-ice cover with a dynamic thermodynamic sea-ice model. Holland, D.M., et al., [1993.eng] 50-5186
- Strength and yield criteria of frozen soil. Ma, W., et al., [1995.eng] 50-5478
- Stress interaction between multiple crevasses in glacier ice. Sasolas, C., et al., [1996.eng] 50-5464
- Stresses in sea ice in the neighboring force interaction zone. Nikitin, V.A., et al., [1995.eng] 50-5522
- Thermomechanical response of the Greenland ice sheet to various climate scenarios. Calov, R., et al., [1996.eng] 50-4522

Ridges

See [also]: Pressure ridges

Rime

See [also]: Hoarfrost

River banks

See [also]: Banks (waterways)

River basins

- Calculating thermal and water resources of small river catchment areas in Siberia: part 2. Karnatseva, I.V., [1991.rus] 50-132
- Characteristics of runoff formation at the Kirgizskiy Alatau. Tien Shan. Aizen, V.B., et al., [1995.eng] 50-2435
- Characteristics of the spatial variability in the pollution of snow cover. Adamenko, V.N., et al., [1992.rus] 50-384
- Classification of wetland and muskeg terrain. Pietroniro, A., et al., [1996.eng] 50-5541
- Climate change, hydrology, and channel morphology of the Gunnison River. Parker, R.S., et al., [1992.eng] 50-3032
- Climate, snow cover, glaciers, and runoff in the Tien Shan, central Asia. Aizen, V.B., et al., [1995.eng] 50-2538
- Comparison of geostatistical methodologies used to estimate snow water equivalent. Carroll, S.S., et al., [1996.eng] 50-4409
- Contribution to the hydrological and hydrochemical response of mountain basins. Babikova, G., et al., [1994.eng] 50-3670
- Current and ancient glaciation in the Cheshuri River basin (central range of the Caucasus). Gobeidzhishvili, R.G., [1972.rus] 50-531
- Danube River fluvial geomorphodynamics during the Quaternary. Buch, M.W., et al., [1995.eng] 50-2749
- Development of a man-machine system for hydroenergy studies on the Kola Peninsula. Marchuk, S.A., et al., [1992.rus] 50-708
- Development of fluvial system of the Dunder Basin (Western Spitsbergen). Harasimuk, M., et al., [1993.eng] 50-2201
- Dynamics of the processes of mechanical and chemical denudation in the Bellsund region. Bartoszewski, S., et al., [1989.pol] 50-2883
- Effect of seasonal freezing on the formation of nalds in northern Transbaikalia. Beliakov, A.E., [1993.rus] 50-115
- Effect of the geographic environment on the occurrence of surface waters from a terraced tundra plain. Szczepanik, W., [1989.pol] 50-2918
- Effects of avalanche snow redistribution on summer streamflow variations. De Scally, F.A., [1996.eng] 50-4333
- Effects of climate change on water supplies in mountainous snowmelt regions. Rango, A., [1995.eng] 50-6617
- Effects of snowpack grain size on remote sensing of river basins. Josberger, E.G., et al., [1996.eng] 50-4302
- Energy characteristics of a mountain-glacier basin (in the example of the Aktru basin). Belova, N.I., [1973.rus] 50-425
- Environmental changes in the North under the influence of technogenic factors. Makarova, O.A., [1994.rus] 50-285
- Erosion rates and sediment evacuation by glaciers. Hallet, B., et al., [1996.eng] 50-5317
- Evaluating snow cover depth in a mountain basin from satellite information. Pichugina, E.L., et al., [1991.rus] 50-4
- Factors controlling suspended sediment transport in Himalayan glacier meltwaters. Hasnain, S.I., [1996.eng] 50-5688
- Firn boundary as a high altitude ridge of the belt flow in mountain basins. Shcheglova, O.P., [1973.rus] 50-434
- Floods resulting from glacial lake outbursts, Yrqiand River basin, Xinjiang, China. Li, J., et al., [1994.eng] 50-1535
- Fluvial dynamics in the periglacial belt of the central Austrian Alps. Hofner, T., [1995.eng] 50-2751
- Glaciation of the Upper Koksa River in the mid-19th century. Glazyrin, G.E., et al., [1991.rus] 50-14
- Glacier runoff in the Sarydzhar River basin. Kononov, V.G., et al., [1991.rus] 50-16
- High-altitude distribution of the seasonal snow line in a mountain river basin. Tursunov, U.O., [1991.rus] 50-5
- Hydrogeochemistry of Fraser River, British Columbia. Cameron, E.M., [1996.eng] 50-5815
- Hydrological effects of hypothetical climate change in the East River basin, Colorado, USA. McCabe, G.J., Jr., et al., [1995.eng] 50-740
- Hydrological problems in the Ebba Basin and Petunia Gulf (Central Spitsbergen). Choiński, A., [1989.pol] 50-2919
- Identification of elements of fluvio-glacial shapes characteristic of glacial outbursts. Robitaille, A., et al., [1995.fre] 50-5041
- Influence of glacial deposits on river basin sedimentation. Campo, S.H., et al., [1994.eng] 50-2997
- Integrated approach to modelling hydrology and water quality in glacialized catchments. Richards, K.S., et al., [1996.eng] 50-6083
- Ion chemistry controls for a Chinese river. Williams, M.W., et al., [1995.eng] 50-2604
- Map of the annual river runoff in the Pamirs and Pamir-Alay. Kemmerikh, A.O., [1972.rus] 50-533
- Modelling the redistribution of runoff caused by global warming. Martinez, J., et al., [1994.eng] 50-5202
- Morphometric characteristics of current glaciation in the mountains of Central Asia. Dolgushin, L.D., et al., [1972.rus] 50-528
- Natural and technogenic water and sediment supply to the Laptev Sea. Alabian, A.M., et al., [1995.eng] 50-2094
- Observations in a typical glacial basin of the Bol'shaya Khadata River in 1970-71. Gus'kov, A.S., [1972.rus] 50-529
- On the interannual variability of precipitation and runoff in the Mackenzie drainage basin. Bjornsson, H., et al., [1995.eng] 50-2737
- Open-water and ice-jam flooding of a northern delta. Prowse, T.D., et al., [1994.eng] 50-5699
- Organization and results of aerological observations in the Aktru mountain glacier basin. Slutskii, V.I., [1973.rus] 50-424
- Outflow from the glacial river of the Werenskiold Glacier and from Fuglebekken. Leszkiewicz, J., et al., [1989.pol] 50-2921
- Overview of the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Hartley, A.E., Sr., [1996.eng] 50-5568
- Plant communities of the Bol'shoi Chyrykuj River Valley, Barguzinskij Range, East Siberia. Chyry, M., et al., [1995.eng] 50-4950
- Processing satellite images to determine snow cover depth. Pichugina, E.L., [1991.rus] 50-3
- Reassessment of the Eurasian river input of water, sediment, major elements, and nutrients to the Arctic Ocean. Gordeev, V.V., et al., [1996.eng] 50-5693
- Reconstructed runoff from the high arctic basin Bayvela based on mass-balance measurements. Hagen, J.O., et al., [1995.eng] 50-4013
- Representative glacier basins of the Bol'shaya Khadata River in 1969/70. Gus'kov, A.S., [1972.rus] 50-551
- Response of snowmelt hydrology to climate change. Brubaker, K.L., et al., [1996.eng] 50-6614
- RIVER3: simulation of river discharge and sediment transport. Syvitski, J.P.M., et al., [1995.eng] 50-3597
- Runoff modeling of a small river basin. Ambrose, B., et al., [1996.eng] 50-6586
- Snow and water chemistry of a headwater alpine basin, Urumqi River, Tian Shan, China. Liu, F.J., et al., [1995.eng] 50-2413
- Snow hydrological parameters for modelling river runoff. Kuchment, L.S., et al., [1996.eng] 50-5519
- Snow recognition and classification using ISOMIX. Li, L.X., et al., [1994.eng] 50-3999
- Some results of integrated studies of the Alaarcha River basin. Tsytsenko, K.V., [1973.rus] 50-428
- Statistical structure of the snow cover field in the Western Caucasus Mountains. Pogorelov, A.V., [1991.rus] 50-2
- Stratigraphy of valley sediments of Polish river drainage basins. Superson, J., [1995.eng] 50-2616
- Study on snowmelt runoff prediction using weekly weather forecast. Hatta, S., et al., [1995.eng] 50-1959
- Use of satellite data for river basin snow cover surveys. Krishna, A.P., [1996.eng] 50-4015
- Warta Glaciation (stage) within the Widawka drainage basin and the Bochatów mine. Baraniecka, M.D., [1993.pol] 50-3652
- Water balance of the Alps. Chernogayeva, G.M., [1973.rus] 50-436
- Wutach gorge in SW Germany: late Würmian (periglacial) downcutting versus Holocene processes. Einsele, G., et al., [1995.eng] 50-2750
- Yukon Territory snow survey bulletin & water supply forecast: April 1, 1996. Canada. Indian and Northern Affairs. Water Resources Division, [1996.eng] 50-4294

See [also]: Watersheds

River crossings

Protection of arctic bridge crossing by refrigerated foundation. Christopherson, A.B., et al., [1991.eng] 50-1734

See [also]: Bridges

River deposits

See [also]: Alluvium

River flow

- 1991 ice jamming along the Saint John River: a case study. Beltaos, S., et al., [1996.eng] 50-5809
- Case study: freeze-up and jamming on the Peace River at Peace River. Andres, D.D., [1995.eng] 50-792
- Chemical composition of suspended sediments in the Lena River and its mixing zone. Gordeev, V.V., et al., [1995.eng] 50-2081
- Chlorophyll fluorescence in the Laptev Sea. Anoshkin, A.F., et al., [1995.eng] 50-2083
- Conditions for formation and variability of flood flow of rivers in northern Tien Shan. Sumarokova, V.V., [1973.rus] 50-435

River flow

- Current problems in the Aral Sea and prospects for their solutions. Tsytsarin, A.G., et al., [1991.rus] 50-731
- Differentiation of Ob and Yenisei waters in the Kara Sea by alkalinity and silicate. Stunzhas, P.A., [1995.eng] 50-6688
- Discharge and fluvial sediment transport in a semi-arid Andean catchment. Barsch, D., et al., [1994.eng] 50-1544
- Dispersal of metal-contaminated sediments in an arctic river. Sear, D., et al., [1996.eng] 50-6516
- Distribution of river run-off in the Laptev Sea: the environmental effect. Dmitrenko, I.A., et al., [1995.eng] 50-2077
- Distribution of river water and suspended sediments in the river deltas of the Laptev Sea. Ivanov, V.V., et al., [1995.eng] 50-2080
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al., [1996.eng] 50-5810
- Dynamics of river ice jam release. Shen, H.T., et al., [1996.eng] 50-6156
- Effect of river-ice break-up on suspended sediment and select trace-element fluxes. Milburn, D., et al., [1994.eng] 50-5698
- Eruption-triggered debris flow on snow-clad volcanoes. Pierson, T.C., [1995.eng] 50-1655
- Estimating deformation in river floodplains under conditions of human activity. Zimichev, V.P., [1991.rus] 50-1306
- Estimation of mean flow velocity in ice-covered channels—discussion. Engel, P., et al., [1996.eng] 50-6338
- Estimation of mean velocity for flow under ice cover. Teal, M.J., et al., [1995.eng] 50-4040
- Evaluation of flow resistance in ice-covered channels. Brailanu, F., et al., [1996.eng] 50-6157
- Field observations and measurements of ice jams. Petryk, S., et al., [1995.eng] 50-791
- Floods resulting from glacial lake outbursts, Yrqiand River basin, Xinjiang, China. Li, J., et al., [1994.eng] 50-1535
- Freshwater impact on Hudson Bay ecosystems under sea ice, pt.1. Ingram, R.G., et al., [1996.eng] 50-4019
- Geochemistry of Lena River suspended sediments. Rachold, V., [1995.eng] 50-2095
- Glacial to modern changes in global river fluxes. Baker, V.R., [1994.eng] 50-1240
- Hydrology of Bregger Glacier, Spitsbergen. Kodama, Y., et al., [1995.eng] 50-3249
- Ice effects on Mackenzie River hydraulics at the outlet of Great Slave Lake. Chen, X.B., [1993.eng] 50-377
- Ice hydraulic investigation for the snow disposal structure, Ottawa River. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1981.eng] 50-1199
- Ice hydraulics of snow disposal in the Ottawa River: frazil ice. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1982.eng] 50-1198
- Ice jam flooding and mitigation: Lower Platte River basin, Nebraska. White, K.D., et al., [1996.eng] 50-4251
- Ice jam flooding on the Missouri River near Williston, North Dakota. Wuebben, J.L., et al., [1995.eng] 50-2707
- Ice jam processes. Beltaos, S., [1995.eng] 50-786
- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., [1995.eng] 50-2480
- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., et al., [1995.eng] 50-4039
- International gaging station established on the Alsek River. Deschu, N., et al., [1995.eng] 50-3752
- Ion chemistry controls for a Chinese river. Williams, M.W., et al., [1995.eng] 50-2604
- Isotopic and ionic variations in glacier river water during three contrasting ablation seasons. Theakstone, W.H., et al., [1996.eng] 50-6085
- Major paleoclimatographic changes in alpine foreland during the Pliocene-Pleistocene. Petit, C., et al., [1996.eng] 50-6538
- Methods for measuring discharge under ice cover—discussion. Engel, P., et al., [1996.eng] 50-2721
- Natural and technogenic water and sediment supply to the Laptev Sea. Alabian, A.M., et al., [1995.eng] 50-2094
- New ice jam database. White, K.D., [1996.eng] 50-4410
- Numerical model of flow in ice-covered channel. Yoon, J.Y., et al., [1996.eng] 50-2720
- Numerical modelling of ice jam resistance to main channel flow. Saadé, R.G., et al., [1995.eng] 50-6206
- Organization of the river and flood program in the National Weather Service. Stallings, E.A., et al., [1995.eng] 50-1135
- Outflow from the glacial river of the Werenskiold Glacier and from Fuglebekken. Leszkiewicz, J., et al., [1989.pol] 50-2921
- Outflow of Lena River water to the Laptev Sea. Golovin, P.N., et al., [1995.eng] 50-2075
- Phreatic water surface profiles along ice jams—an experimental study. Saadé, R.G., et al., [1996.eng] 50-6693
- Physical modeling of ice jams. Wuebben, J.L., [1995.eng] 50-789
- Postglacial development of river valleys in the middle part of the northern slope of Pomerania. Florek, W., [1991.pol] 50-4940
- Precipitation and river runoff in an ice-ocean model of the Arctic. Weatherly, J.W., [1994.eng] 50-675
- Predicting sediment load of Swiss rivers. Hunziker, R.P., [1995.ger] 50-4173
- Preliminary hydrological results from Sarennes glacier basin, French Alps. Barbet, D., et al., [1993.eng] 50-5690
- Preliminary results from research on proglacial outwash in Spitsbergen. Marciniak, K., et al., [1989.pol] 50-2915
- Probability distributions for peak stage on rivers affected by ice jams. Tuthill, A.M., et al., [1996.eng] 50-4754

River ice

- Proglacial fluvial and lacustrine environments. Church, M., et al. [1975,eng] 50-4808
- Reassessment of the Eurasian river input of water, sediment, major elements, and nutrients to the Arctic Ocean. Gordcev, V.V., et al. [1996,eng] 50-5693
- Regional snow and water balance models. Xu, C.Y., et al. [1996,eng] 50-5835
- Research on cold region river. Yamashita, S., [1994,jpn] 50-2832
- River discharge and soil freezing depth during winter in Heilongjiang. Liu, F.S., [1989,chi] 50-1352
- River flow of organic matter and biogenic elements to the Aral Sea. Smirnov, M.P., [1991,rus] 50-732
- River ice jams. Beltaos, S., ed. [1995,eng] 50-783
- River pollution of Russian northern seas. Rovinskiĭ, F.I.A., et al. [1995,eng] 50-6548
- River-coastal sea ice interaction model: Mackenzie River Delta. Searcy, C., et al. [1996,eng] 50-5265
- RIVER3: simulation of river discharge and sediment transport. Syvitski, J.P.M., et al. [1995,eng] 50-3597
- Simulation and analysis of upper Niagara River ice-jam conditions. Wang, D.S., et al. [1995,eng] 50-356
- Theory of ice jams. Beltaos, S., [1995,eng] 50-787
- Three-dimensional simulation of river ice jams. Hopkins, M.A., et al. [1996,eng] 50-6155
- Three-layer model of flow under the ice cover in rivers. Debolskii, V.K., et al. [1995,eng] 50-352
- Transport dynamics of material carried in the Waldemar River in Spitsbergen during the 1985 summer season. Pietrucieŭ, C., et al. [1989,pol] 50-2916
- Under cover transport and accumulation of frazil granules—discussion. Quo, Q.Z., et al. [1996,eng] 50-6337
- Variation in snowmelt alimentation of annual river runoff. Bolgov, M.V., et al. [1996,eng] 50-5860
- Water balance of the Alps. Chernogaeva, G.M., [1973,rus] 50-436
- Winter low-flow balance of the semiarid White River, Nebraska and South Dakota. Ferrick, M.G., et al. [1995,eng] 50-1074
- Yukon Territory snow survey bulletin & water supply forecast: April 1, 1996. Canada. Indian and Northern Affairs. Water Resources Division. [1996,eng] 50-4294
- See [also]: Runoff; Stream flow
- River ice**
- Analysis of the Komiñeft pipeline oil. Lambert, P., et al. [1995,eng] 50-5734
- Assessment of the design load of bridge piers constructed in rivers freezing over in winter. Yamauchi, T., et al. [1994,jpn] 50-2835
- Calculation of the strength of the ice cover during breakup of rivers. Ginzburg, B.M., et al. [1995,eng] 50-351
- Case study: freeze-up and jamming on the Peace River at Peace River. Andres, D.D., [1995,eng] 50-792
- Device for creating a spring ice jam. Ilarov, N.A., et al. [1992,rus] 50-1903
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1995,eng] 50-4247
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1996,eng] 50-5810
- Dusting river ice with leaf mulch to aid in ice deterioration. Haehnel, R.B., et al. [1996,eng] 50-6072
- Dynamic responses of highway bridge under shock forces of iceflow. Cai, Z.R., et al. [1995,eng] 50-192
- Dynamics of river ice jam release. Shen, H.T., et al. [1996,eng] 50-6156
- Effect of river-ice break-up on suspended sediment and select trace-element fluxes. Milburn, D., et al. [1994,eng] 50-5698
- Estimation of mean flow velocity in ice-covered channels—discussion. Engel, P., et al. [1996,eng] 50-6338
- Estimation of mean velocity for flow under ice cover. Teal, M.J., et al. [1995,eng] 50-4040
- Evaluation of flow resistance in ice-covered channels. Braileanu, F., et al. [1996,eng] 50-6157
- Field observations and measurements of ice jams. Petryk, S., et al. [1995,eng] 50-791
- Frazil evolution in channels. Hammar, L., et al. [1995,eng] 50-647
- Hindsight on river ice jam stability. Beltaos, S., [1996,eng] 50-6425
- Ice dam. Vasil'ev, P.N., et al. [1992,rus] 50-1911
- Ice effects on Mackenzie River hydraulics at the outlet of Great Slave Lake. Chen, X.B., [1993,eng] 50-377
- Ice force and scour instrumentation for the White River, Vermont. Zabilansky, L.J., [1996,eng] 50-6073
- Ice hydraulic investigation for the snow disposal structure, Ottawa River. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1981,eng] 50-1199
- Ice hydraulics of snow disposal in the Ottawa River: frazil ice. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1982,eng] 50-1198
- Ice jam flooding and mitigation: Lower Platte River basin, Nebraska. White, K.D., et al. [1996,eng] 50-4251
- Ice jam processes. Beltaos, S., [1995,eng] 50-786
- Ice jamming in upper Niagara River: processes and plan of study. Crissman, R.D., et al. [1995,eng] 50-362
- Ice management in Lac St. Pierre. Carter, D., et al. [1995,eng] 50-4043
- Ice problems in planning and operation of hydro power plants. Sharma, H.R., [1993,eng] 50-235
- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., [1995,eng] 50-2480

- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., et al. [1995,eng] 50-4039
- Impulse radar studies of interface roughness. Jezek, K.C., et al. [1992,eng] 50-60
- Introduction to river ice jam floods. Gerard, R.L., et al. [1995,eng] 50-784
- Laboratory tests for ice interaction with steel booms. Timco, G.W., et al. [1996,eng] 50-5812
- Manual of ice protection. Sipos, B., ed. [1973,hun] 50-443
- Mechanical ice cutter on the Mississippi River. Ashton, G.D., [1973,eng] 50-3954
- Methods for measuring discharge under ice cover—discussion. Engel, P., et al. [1996,eng] 50-2721
- Mitigation of ice jams. Burrell, B.C., [1995,eng] 50-790
- New ice jam database. White, K.D., [1996,eng] 50-4410
- New, low-cost ice control structure. Part 1: concept development. Lever, J.H., et al. [1996,eng] 50-6158
- New, low-cost ice control structure. Part 2: construction and performance. Lever, J.H., et al. [1996,eng] 50-6159
- Numerical model of flow in ice-covered channel. Yoon, J.Y., et al. [1996,eng] 50-2720
- Numerical modelling of ice jam resistance to main channel flow. Saadé, R.G., et al. [1995,eng] 50-6206
- Numerical modelling of ice jams. Petryk, S., [1995,eng] 50-788
- Numerical simulation of river ice processes. Shen, H.T., et al. [1995,eng] 50-355
- Odor removal processes for ice-covered river runoff. Hruđey, S.E., et al. [1995,eng] 50-1524
- Open-water and ice-jam flooding of a northern delta. Prowse, T.D., et al. [1994,eng] 50-5699
- Overview of environmental and hydrogeologic conditions at Galena, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2481
- Phreatic water surface profiles along ice jams—an experimental study. Saadé, R.G., et al. [1996,eng] 50-6693
- Physical modeling of ice jams. Wuebben, J.L., [1995,eng] 50-789
- Pollution of natural ice in the Arctic and its indications. Ivanov, A.V., [1989,rus] 50-2301
- Predicting abrasion of bridge piers by ice. Hara, F., et al. [1995,eng] 50-2655
- Preliminary study of melting snow and river ice by dusting using leaf mulch. Haehnel, R.B., et al. [1995,eng] 50-3120
- Probability distributions for peak stage on rivers affected by ice jams. Tuthill, A.M., et al. [1996,eng] 50-4754
- Research on cold region river. Yamashita, S., [1994,jpn] 50-2832
- River ice control and fish habitat restoration: mutual interests and benefits. Lever, J.H., et al. [1995,eng] 50-3121
- River ice jams. Beltaos, S., ed. [1995,eng] 50-783
- River ice motion detector. Zufelt, J.E., et al. [1995,eng] 50-889
- River ice processes. Prowse, T.D., [1995,eng] 50-785
- Simulation and analysis of upper Niagara River ice-jam conditions. Wang, D.S., et al. [1995,eng] 50-356
- Structural ice control: review of existing methods. Tuthill, A.M., [1995,eng] 50-393
- Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savilev, B.A., [1963,rus] 50-3832
- Texture of glacier and river ice on Mount Xixia Bangma. Huang, M.H., [1982,chi] 50-6599
- Theory of ice jams. Beltaos, S., [1995,eng] 50-787
- Three-dimensional simulation of river ice jams. Hopkins, M.A., et al. [1996,eng] 50-6155
- Three-layer model of flow under the ice cover in rivers. Debolskii, V.K., et al. [1995,eng] 50-352
- Under cover transport and accumulation of frazil granules—discussion. Quo, Q.Z., et al. [1996,eng] 50-6337
- Winter low-flow balance of the semiarid White River, Nebraska and South Dakota. Ferrick, M.G., et al. [1995,eng] 50-1074
- World of snow and ice. Kotliakov, V.M., [1994,rus] 50-1420

River temperatures

See [also]: Water temperature

Rivers

- Analyzing the state of Ural tributaries of the Ob' River according to zoobenthos indicators. Sharapova, T.A., et al. [1994,rus] 50-283
- Changes in the geocryological conditions of developed lower reaches and estuaries of northern rivers. Shvetsov, P.F., et al. [1991,rus] 50-1301
- Characteristics of water quality in a forest river during the snow melting period. Tachibana, H., et al. [1994,eng] 50-4222
- Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996,rus] 50-6382
- Conditions for formation and variability of flood flow of rivers in northern Tien Shan. Sumarokova, V.V., [1973,rus] 50-435
- Cryogenic structure of surface deposits in Central Yakutia. Konchenko, L.A., [1996,rus] 50-6378
- Effect of extreme weather conditions on hydrological phenomena in Spitsbergen. Szczepanik, W., et al. [1989,pol] 50-2914
- Glaciation of the Upper Koksa River in the mid-19th century. Glazyrin, G.E., et al. [1991,rus] 50-14
- Hydrological research on rivers and lakes in the Tibetan Plateau. Porge, K.H., [1994,ger] 50-4787
- Ice dam. Vasil'ev, P.N., et al. [1992,rus] 50-1911
- Map of the annual river runoff in the Pamirs and Pamir-Alay. Kemmerikh, A.O., [1972,rus] 50-533
- Phosphorus in river runoff. Savenko, V.S., et al. [1995,rus] 50-4122

Road icing

- Postglacial development of river valleys in the middle part of the northern slope of Pomerania. Florek, W., [1991,pol] 50-4940
- Recent morphogenesis and problems in the geocology of the Russian Arctic. Sen'kin, O.V., et al. [1995,rus] 50-5138
- Record of Warta processes in the base of the mountain Ner River valley. Turkowska, K., [1993,pol] 50-3667
- Research on the concentration of suspended matter in the rivers of Kaffiöyry (NW Spitsbergen). Pietrucieŭ, C., et al. [1989,pol] 50-2917
- Rivers and lakes of Xizang. Guan, Z.H., et al. [1984,chi] 50-1846
- Sandbanks in river beds in the foreground of Hörbye Glacier, Spitsbergen. Rachlewicz, G., [1989,pol] 50-2894
- Technogenic cryomorphogenesis and pollution of river estuaries in the Arctic basin. Grigor'ev, M.N., et al. [1991,rus] 50-1303
- Winter low-flow balance of the semiarid White River, Nebraska and South Dakota. Ferrick, M.G., et al. [1995,eng] 50-1074
- See [also]: Glacial rivers; Streams
- Road icing**
- Algorithm for optimizing road salting routes. Li, L.Y.O., et al. [1996,eng] 50-4011
- Alkaline snow-melting agents containing chlorides and lime for pavements and roads. Ekusa, K., et al. [1996,eng] 50-5591
- Alternative deicing chemicals research. Woodham, D., [1994,eng] 50-1072
- Analysis of winter skid accidents in Sapporo City and Asahikawa City. Nagai, T., et al. [1995,jpn] 50-6792
- Analysis of winter skid accidents in Sapporo City. Nagai, T., et al. [1994,jpn] 50-2827
- Anti-icing: a bold new strategy. [1995,eng] 50-490
- Basic characteristics of antiskid rubber mats for roads. Yoshino, M., et al. [1995,jpn] 50-6805
- Behavior of vehicles driven in blowing snow. Fukuzawa, Y., et al. [1994,jpn] 50-2826
- Calculation of the amount of salt required to melt ice and snow on highways. Schneider, T.R., [1962,eng] 50-3881
- Casualties due to snow and ice phenomena. Ikarashi, T., [1995,jpn] 50-605
- County improves its snow and ice control program. da Cunha, M., [1996,eng] 50-6101
- Cracking of asphalt pavement and its prevention. Tian, D.T., et al. [1989,chi] 50-1394
- Current status and trends in countermeasures against snow and cold on highways. Murakami, M., [1988,jpn] 50-2281
- Data filtering for thermal mapping of road surface temperatures. Shao, J., et al. [1995,eng] 50-775
- Development of road traffic information system responsive to driver telephone requests. Horikawa, T., et al. [1993,jpn] 50-2838
- Developments in airport ice control chemicals. Townshend, T., [1995,eng] 50-3119
- Effect of deicers on roadside trees in Hokkaido. Miyamoto, S., et al. [1995,jpn] 50-6788
- Effect of microclimate on road superstructures. Final report. Dysli, M., et al. [1986,fre] 50-3320
- Effect of the environment on the bearing capacity of a road. Final report. Part 1. Pfister, R., et al. [1979,fre] 50-2451
- Effect of the popularization of studless tires on the road environment. Mima, H., et al. [1995,jpn] 50-6790
- Effect of the popularization of studless tires on traffic conditions. Horita, N., et al. [1995,jpn] 50-6789
- Effects of widespread use of studless tire on traffic conditions. Horita, N., et al. [1994,jpn] 50-2829
- Emissions from antiskid materials applied to icy roadways. Phase 2. Kinsey, J.S., [1995,eng] 50-3939
- Energy saving characteristics of new type road-heating system. Hokari, K., et al. [1996,eng] 50-5400
- Evaluating the applicability of frost resistant pavements. Ninomiya, H., et al. [1995,jpn] 50-6803
- Evaluation procedures for deicing chemicals and improved sodium chloride. Chappelow, C.C., et al. [1993,eng] 50-875
- Experimental pavement for road freezing countermeasures in Sapporo City. Katayama, K., et al. [1995,jpn] 50-6804
- Formation of ice film at the surface of compacted snow on roads. Matsuzawa, M., et al. [1996,jpn] 50-3502
- Ice prediction systems for runways. Haavasoja, T., et al. [1991,eng] 50-3268
- Ice-pavement bond disbonding—fundamental study. Blackburn, R.R., et al. [1993,eng] 50-876
- Impact of deicing chemicals on plants in Hokkaido. Miyamoto, S., et al. [1994,jpn] 50-2828
- Iowa tests anti-icing strategies. [1995,eng] 50-1557
- Manual for highway winter anti-icing practices. Ketcham, S.A., et al. [1996,eng] 50-6060
- Measuring salt's effectiveness in New York. Hart, R.D., et al. [1995,eng] 50-1560
- Method and system for detecting potential icy conditions on roads. Rendón, E., [1995,eng] 50-3461
- Military specification MIL-D-83411A(USAF). Deicer/anti-icer fluid (for runways and taxiways). U.S. Air Force, [1973,eng] 50-4607
- Mitigation and durability of icy roads with urethane filled pavement grooving. Takeda, Y., et al. [1995,jpn] 50-6806
- New deicing tactics: prewet with salt brine. [1996,eng] 50-3454
- Ottawa tests low-cost salt pre-wetting system. Miner, M., [1995,eng] 50-3292
- Pedestrian slipping accidents and their prevention. Kalkka, M., [1995,fin] 50-5507

Road maintenance

Road maintenance

- Pedestrian slips and falls on icy roads. Takamori, M., et al. [1995,jpn] 50-6794
- Performance of equipment for traffic report management systems. Obayashi, K., et al. [1992,jpn] 50-3137
- Prediction of frost penetration beneath West Virginia pavements. Moulton, L.K., [1968,eng] 50-4549
- Prewetting salt with liquid calcium chloride for ice control on urban streets. Dunn, W., et al. [1995,eng] 50-3118
- Relation between winter road maintenance and road safety. Sævehed, H., [1995,eng] 50-5929
- Relation of traffic to climate and road icing in downtown Sapporo. Matsuzawa, M., et al. [1995,jpn] 50-6791
- Results of black ice inhibiting filler use on asphalt test sections. Arand, W., [1995,ger] 50-2841
- Road and airfield maintenance in cold regions. Becker, J.C., et al. [1996,eng] 50-6193
- Road condition reporting vehicles (Part 2). Harada, N., et al. [1995,jpn] 50-6741
- Road surface covered with snow and ice and traffic accidents in Hokkaido. Takagi, H., [1995,jpn] 50-3512
- Road surfaces under severe climatic conditions. Pigois, M.L., [1980,fre] 50-2444
- Roadside temperature displays and use of studless tires. Takagi, H., [1993,jpn] 50-2840
- Setting verification targets for minimum road temperature forecasts. Halsey, N.G.J., [1995,eng] 50-2794
- Skid resistance of asphalt concrete pavements. Abe, A., et al. [1994,jpn] 50-2830
- Snow disasters and countermeasure against it. Ikarashi, T., [1995,jpn] 50-604
- Spreader of choice for Michigan's snow-bound Upper Peninsula. Haag, J., [1995,eng] 50-1086
- Standard test methods for tire performance testing on snow and ice surfaces. American Society for Testing and Materials, [1995,eng] 50-886
- Study on road surface countermeasures in winter. Hokkaido Development Bureau. Civil Engineering Research Institute, [1995,jpn] 50-6787
- Tests clear snow, path for use of liquid anti-icing in northwest. Deep, D., et al. [1995,eng] 50-1954
- Trends in winter tires as seen in the patents. Iwasaki, S., [1995,jpn] 50-994
- Using antiskid materials as road icing countermeasures. Miyamoto, S., et al. [1994,jpn] 50-2833
- Using sand and crushed rock as road icing countermeasures. Onuma, H., et al. [1995,jpn] 50-6795
- Vehicle traction performance comparison for Alaska winter seasons. Lu, J.J., [1996,eng] 50-6162
- Winter maintenance and chemical shortages. Pagan, A.R., [1995,eng] 50-1558
- Winter road surface conditions of national highways in Sapporo. Takahashi, K., et al. [1995,jpn] 50-6793
- Winter road traffic census. Ueki, S., et al. [1992,jpn] 50-3140
- Winter warning traffic signs in Hokkaido. Takayama, H., et al. [1995,jpn] 50-6796
- Road maintenance**
- Aggregate degradation in the frost heave test. Hill, J., [1977,eng] 50-2320
- Air convection embankments for roadway construction in permafrost zones. Goering, D.J., [1996,eng] 50-6107
- Algorithm for optimizing road salting routes. Li, L.Y.O., et al. [1996,eng] 50-4011
- Alkaline snow-melting agents containing chlorides and lime for pavements and roads. Ekusa, K., et al. [1996,eng] 50-5591
- Alternative deicing chemicals research. Woodham, D., [1994,eng] 50-1072
- Alternative road construction for stormwater management in cold climates. Stenmark, C., [1995,eng] 50-2532
- Amine freezing point depressant for soil stabilization. Hemstreet, D.A., et al. [1996,eng] 50-6144
- Analysis of winter skid accidents in Sapporo City and Asahikawa City. Nagai, T., et al. [1995,jpn] 50-6792
- Anti-icing: a bold new strategy. [1995,eng] 50-490
- Application of a snow melting system using heat pipes with electric cartridge heaters. Egawa, H., et al. [1996,eng] 50-6492
- Asphalt pavements in permafrost on the Qinghai-Xizang Highway. Li, N.Y., et al. [1996,eng] 50-6178
- Assessment of the use of deicing salts. Breitenstein, J., [1996,ger] 50-3617
- Basic characteristics of antiskid rubber mats for roads. Yoshino, M., et al. [1995,jpn] 50-6805
- Better visibility needed in snowplowing. [1995,eng] 50-3855
- Bituminous pavements: building a bridge between theory and reality. Said, S.F., [1995,swe] 50-949
- Bituminous surface treatment (BST) of northern highways. MacLeod, D.R., et al. [1996,eng] 50-6184
- Calculation of the amount of salt required to melt ice and snow on highways. Schneider, T.R., [1962,eng] 50-3881
- Cathodic protection in North America: field results in high and low temperature environments. Bennett, J.E., et al. [1995,eng] 50-2661
- Chloride problems in UK highway structures. Mawhinney, M., [1995,eng] 50-2660
- Cold recycling of reclaimed asphalt concrete. Test road in Värmland—three years experience. Jacobson, T., [1995,swe] 50-950
- Cold regions infrastructure: an international imperative for the 21st century. International Conference on Cold Regions Engineering, 8th, Fairbanks, AK, Aug. 12-16, 1996, [1996,eng] 50-6106
- Concrete pavements in tunnels. Berg, J.S., et al. [1996,eng] 50-6182
- Cost-effective snow fence usage—D.I.M.E. Baker, H.A., et al. [1995,eng] 50-3116
- Costs and benefits of winter maintenance. Durth, W., [1995,ger] 50-2023
- County improves its snow and ice control program. da Cunha, M., [1996,eng] 50-6101
- Crack filler works well—even in freezing weather. Shorten, R., [1995,eng] 50-1559
- Cracking of asphalt pavement and its prevention. Tian, D.T., et al. [1989,chi] 50-1394
- Critical height of asphalt-paved highway embankments in permafrost. Zhu, L.N., et al. [1989,chi] 50-1393
- Critical height of road embankments in permafrost. An, W.D., et al. [1989,chi] 50-1375
- Current conditions and countermeasures in the snow belt. [1985,jpn] 50-2036
- Current conditions and countermeasures in the snow belt. [1988,jpn] 50-2037
- Current conditions and countermeasures in the snow belt. [1991,jpn] 50-2038
- Current status and trends in countermeasures against snow and cold on highways. Murakuni, M., [1988,jpn] 50-2281
- Current status of snow countermeasures on roads in the Soya district. Chiduru, Y., et al. [1995,jpn] 50-6797
- Current technology of snow melting system using heat pipes in Japan. Sugihara, S., et al. [1996,eng] 50-6489
- Development of a quantitative model of frost heave. Holden, J.T., [1977,eng] 50-2322
- Development of equipment for pulverizing solid deicers. Inui, T., et al. [1992,jpn] 50-3142
- Development of road traffic information system responsive to driver telephone requests. Horikawa, T., et al. [1993,jpn] 50-2838
- Development of snow removal equipment for median strips. Inui, T., et al. [1992,jpn] 50-3143
- Device for the removal of snow and ice from road pavements. Vetter, V.I., et al. [1992,rus] 50-1934
- Economic evaluation of snow removal systems in urban areas. Part 1. Morohashi, K., et al. [1995,jpn] 50-995
- Economic evaluation of snow-removal systems in urban areas. Part 2. Morohashi, K., et al. [1996,jpn] 50-4925
- Effect of deicers on roadside trees in Hokkaido. Miyamoto, S., et al. [1995,jpn] 50-6788
- Effect of mode of compaction on frost heave. Burns, J., [1977,eng] 50-2318
- Effect of the environment on the bearing capacity of a road. Final report. Part 1. Pfister, R., et al. [1979,fre] 50-2451
- Effect of the popularization of studless tires on the road environment. Mima, H., et al. [1995,jpn] 50-6790
- Effect of the popularization of studless tires on traffic conditions. Horita, N., et al. [1995,jpn] 50-6789
- Effect of water-table position on frost heave. Burns, J., [1977,eng] 50-2326
- Effects of deicing salt on vegetation along highways in Sweden. Backman, L., et al. [1995,eng] 50-4602
- Effects of widespread use of studless tire on traffic conditions. Horita, N., et al. [1994,jpn] 50-2829
- Emissions from antiskid materials applied to icy roadways. Phase 2. Kinsey, J.S., [1995,eng] 50-3939
- Energy saving characteristics of new type road-heating system. Hokari, K., et al. [1996,eng] 50-5400
- Environmental-induced longitudinal cracking in cold regions pavements. Scher, R.L., [1996,eng] 50-6181
- Estimating visibility on roads in snow by video. Ishimoto, K., et al. [1995,jpn] 50-6800
- Evaluating the applicability of frost resistant pavements. Niomiya, H., et al. [1995,jpn] 50-6803
- Evaluation of cold mixes for winter pothole repair. Prowell, B.D., et al. [1995,eng] 50-2792
- Evaluation of geocomposite edge drain on sand subgrade. Raymond, G.P., et al. [1996,eng] 50-5662
- Evaluation of reducing method of total heave amounts using soil-cement mixtures. Fukuda, M., et al. [1992,eng] 50-25
- Evaluation procedures for deicing chemicals and improved sodium chloride. Chappelow, C.C., et al. [1993,eng] 50-875
- Exhibition of snow removal equipment. Tokyo, 1988. [1988,jpn] 50-2288
- Experimental pavement for road freezing countermeasures in Sapporo City. Katayama, K., et al. [1995,jpn] 50-6804
- Fatigue criteria for asphalt pavements. Laboratory and field criteria. Committee 34. Wiman, L.G., ed. [1996,swe] 50-5603
- Field observations of instrumented highway sections with different frost protections. Konrad, J.M., et al. [1996,eng] 50-6161
- Forecasting of deformation of asphalt paved frozen roadbed of the Qinghai-Xizang Highway. Wu, Z.W., et al. [1989,chi] 50-1392
- Freeze-thaw durability testing of oversanded bridge floor concrete. Ouyang, C.S., [1995,eng] 50-4949
- Freezing and thawing resistance of concrete pavers saturated in deicing chemicals. Ghafoori, N., et al. [1995,eng] 50-2638
- Frost action in subgrade soils—a field/laboratory study. Hoffman, G.L., [1979,eng] 50-4616
- Frost action in subgrades of roads and airfields. Pufahl, D.E., [1996,eng] 50-6188
- Frost and deicing salt resistance of concrete pavements. Setzer, M.J., et al. [1994,ger] 50-2797
- Frost heave investigation of I 275. Novak, E.C., Jr., [1982,eng] 50-2058
- Frost heave prediction in the Netherlands. Post, H.J., [1981,eng] 50-2140
- Frost heave research at the University of Nottingham. Jones, R.H., [1977,eng] 50-2312
- Frost heave studies by natural freezing. Stenberg, L., [1981,eng] 50-2145
- Frost-heave test as a compliance requirement. Sherwood, P.T., [1977,eng] 50-2317
- Full depth testing of frost susceptible soils. Final report. Rice, D.C., [1982,eng] 50-1689
- Grading, degradation and compaction considerations in relation to specimen preparation. Hughes, R., [1977,eng] 50-2316
- Handling snow on the New Jersey Turnpike. Pagan, A.R., [1995,eng] 50-3859
- Heaving pressures as a means of assessing frost susceptibility. Kettle, R.J., et al. [1981,eng] 50-2142
- How terrain and road design affect winter maintenance on the Klondike Highway. Tabler, R.D., et al. [1993,eng] 50-5595
- How to battle snow and ice. Askew, D., [1995,eng] 50-3858
- Ice-pavement bond disbonding—fundamental study. Blackburn, R.R., et al. [1993,eng] 50-876
- Impact of deicing chemicals on plants in Hokkaido. Miyamoto, S., et al. [1994,jpn] 50-2828
- Improvement of sidewalk snow removal within urban areas. Takahashi, S., et al. [1992,jpn] 50-3138
- Indiana streamlines permitting and ice/snow removal. Pittman, R., [1996,eng] 50-3495
- Inherent variability of frost heave specimens. Nicholls, R.A., [1977,eng] 50-2319
- Innovative materials development and testing. Volume 2: pothole repair. Wilson, T.P., et al. [1993,eng] 50-1071
- Investigation of the impact of snow removal activities on pavement markings in Virginia. Cottrell, B.H., Jr., [1995,eng] 50-2791
- Iowa tests anti-icing strategies. [1995,eng] 50-1557
- Long-term evaluations of insulated roads and airfields in Alaska. Esch, D.C., [1995,eng] 50-1156
- Low temperature cracking and rutting in asphalt concrete pavements. Vinson, T.S., et al. [1996,eng] 50-6192
- Manual for highway winter anti-icing practices. Ketcham, S.A., et al. [1996,eng] 50-6060
- Maryland State Highway Administration tallies record winter. Kassoff, H., [1996,eng] 50-6103
- Material properties, specifications and testing for pavements in cold regions. Chamberlain, E.J., et al. [1996,eng] 50-6195
- Mechanistic design of asphalt concrete pavements in cold regions. Vinson, T.S., et al. [1996,eng] 50-6191
- Military specification MIL-D-8341A(USAF). Deicer/anti-icer fluid (for runways and taxiways). U.S. Air Force, [1973,eng] 50-4607
- Mitigation and durability of icy roads with urethane filled pavement grooving. Takeda, Y., et al. [1995,jpn] 50-6806
- Model test of ground temperature variation of embankment. Ye, B.Y., et al. [1989,chi] 50-1396
- Modeling frost heave of roads with a geotextile layer. Konrad, J.M., et al. [1996,eng] 50-5663
- More words on snow countermeasures for National Highway 17 (Part 2). Abe, T., [1996,jpn] 50-6734
- More words on snow countermeasures for National Highway 17. Abe, T., [1996,jpn] 50-4939
- New salting methods on UK highways. Cruickshank, J., [1996,eng] 50-4366
- Open graded base to reduce thaw weakening in flexible pavements. Kestler, M.A., [1996,eng] 50-6179
- Pavement design applying allowable frost heave. Saarela, S., [1996,eng] 50-6180
- Pavement distress caused by deep heave in Anchorage, Alaska. Tart, R.C., Jr., et al. [1996,eng] 50-6183
- Pavement repairs with metallic glass fiber reinforced concrete. Granju, J.L., et al. [1992,eng] 50-2755
- Pedestrian slips and falls on icy roads. Takamori, M., et al. [1995,jpn] 50-6794
- PennDOT responds to the challenges of January's blizzards and flooding. Chizmar, S., [1996,eng] 50-6102
- Performance of equipment for traffic report management systems. Obayashi, K., et al. [1992,jpn] 50-3137
- Performance of high-early strength concrete under freeze-thaw conditions. Hossain, M., et al. [1995,eng] 50-2628
- Poles spaced along the road with overhead reflectors as lane markers in snow. Hirasawa, H., et al. [1994,jpn] 50-2837
- Prediction of frost penetration beneath West Virginia pavements. Moulton, L.K., [1968,eng] 50-4549
- Predictive model of frost heave and thaw weakening. Guymon, G.L., et al. [1985,eng] 50-2310
- Preliminary assessment of design and performance of frost susceptibility testing facilities. Dudek, S., [1977,eng] 50-2313
- Prewetting salt with liquid calcium chloride for ice control on urban streets. Dunn, W., et al. [1995,eng] 50-3118
- Probabilistic approach to determining frost heave. Chamberlain, E.J., et al. [1981,eng] 50-2141
- Proceedings. Colloquium on Frost Heave Testing and Research. Nottingham, England, May 18, 1977, [1977,eng] 50-2311
- Proceedings. Seminar on the Prediction of Frost Heave. Nottingham, England, Apr. 9, 1981, [1981,eng] 50-2135
- Relation between winter road maintenance and road safety. Sævehed, H., [1995,eng] 50-5929
- Relation of traffic to climate and road icing in downtown Sapporo. Matsuzawa, M., et al. [1995,jpn] 50-6791
- Research on technology for conquering and exploiting snow. [1988,jpn] 50-2273

Roadbeds

- Road and airfield design for permafrost conditions. Esch, D.C., [1996,eng] 50-6190
- Road and airfield development in the subarctic and Arctic, Alaska and northwest Canada. Rooney, J.W., et al, [1996,eng] 50-6186
- Road and airfield maintenance in cold regions. Becker, J.C., et al, [1996,eng] 50-6193
- Road condition reporting vehicles (Part 2). Harada, N., et al, [1995,jpn] 50-6741
- Road surface covered with snow and ice and traffic accidents in Hokkaido. Takagi, H., [1995,jpn] 50-3512
- Road surfaces under severe climatic conditions. Pigois, M.L., [1980,fr] 50-2444
- Roads and airfields in cold regions. Vinson, T.S., ed, et al, [1996,eng] 50-6185
- Roadside temperature displays and use of studless tires. Takagi, H., [1993,jpn] 50-2840
- Route location and siting of roads and airfields. Schraeder, R.L., et al, [1996,eng] 50-6187
- Service evaluation of light de-icing and snowplowing equipment. Girardin, M., [1995,eng] 50-4037
- Setting verification targets for minimum road temperature forecasts. Halsey, N.G.J., [1995,eng] 50-2794
- Shakwak Highway Project—construction challenges. Walsh, R., et al, [1996,eng] 50-6160
- Skid resistance of asphalt concrete pavements. Abe, A., et al, [1994,jpn] 50-2830
- Sliding of the slope of railway embankment in permafrost region and its treatment. Wang, W.B., [1989,chi] 50-1395
- Snow and ice control in North America. Perry, A.H., et al, [1991,eng] 50-4905
- Snow and ice control. Minnesota. Office of the Legislative Auditor, [1995,eng] 50-3596
- Snow blowers. Kamimura, H., et al, [1992,jpn] 50-3135
- Snow countermeasures on metropolitan expressways. Ishizawa, M., et al, [1988,jpn] 50-2282
- Snow disasters and countermeasure against it. Ikarashi, T., [1995,jpn] 50-6004
- Snow fences in Hokkaido to improve visibility. Fukuzawa, Y., et al, [1995,jpn] 50-6799
- Snow-drift modelling and control. Ring, S.L., [1991,eng] 50-4906
- Soil sample compaction degradation related to grading variations. Pike, D.C., [1977,eng] 50-2321
- Some innovations in snow and ice control equipment, [1995,eng] 50-4156
- Spreader of choice for Michigan's snow-bound Upper Peninsula. Haag, J., [1995,eng] 50-4156
- Strengthening railroad roadbed bases constructed on icy permafrost soils. Kondrat'ev, V.G., [1996,eng] 50-6164
- Studded tire research in Norway, Finland and Sweden. Johnson, E., et al, [1996,eng] 50-6163
- Study on integrated system design for regional development in snowy regions. [1989,jpn] 50-2039
- Study on methods to restore the performance of drainable pavements. Abe, A., et al, [1995,jpn] 50-6802
- Study on road surface countermeasures in winter. Hokkaido Development Bureau. Civil Engineering Research Institute, [1995,jpn] 50-6787
- Surface modifications to reduce thaw degradation of permafrost. Zarling, J.P., et al, [1996,eng] 50-6111
- Technical development of snow removal and ice control machine. Kuriyama, H., [1995,jpn] 50-3510
- Technology assessment on systems for conquering and exploiting snow. [1987,jpn] 50-2289
- Temperature and elasticity modulus of asphalt pavements. Balzer, S., [1992,eng] 50-2476
- Test results and trends in the adoption of new technology for road snow melting. Sato, I., [1988,jpn] 50-2283
- Testing facilities—self refrigerating units. Frost cabinet temperature distribution. Hill, J., [1977,eng] 50-2314
- Tests of asphalt pavements with improved drainage in cold regions. Toya, K., et al, [1995,jpn] 50-6801
- Tests on snowplows (continuation)—tests on improving the performance of snowplows. Hokkaido Development Bureau, [1995,jpn] 50-6740
- Tracks of forest roads in the privately owned forests of Hokkaido. [1990,jpn] 50-2294
- Unsurfaced road maintenance management. Eaton, R.E., et al, [1995,eng] 50-952
- Use of alternative materials in pavement frost protection. Doré, G., et al, [1995,eng] 50-1157
- Use of geosynthetics in road and airfield construction in cold regions. Kinney, T.C., [1996,eng] 50-6194
- Use of layered theory in the design and evaluation of pavement systems. Hicks, R.G., et al, [1982,eng] 50-5914
- Using antiskid materials as road icing countermeasures. Miyamoto, S., et al, [1994,jpn] 50-2833
- Using sand and crushed rock as road icing countermeasures. Onuma, H., et al, [1995,jpn] 50-6795
- Wear resistance of concrete pavements to studded tires. Hultqvist, B.Å., et al, [1996,swe] 50-3847
- Wear resistant concrete for pavements. Pedersen, N., [1988,eng] 50-4227
- What you need to know about prewetting deicers. Mergenmeier, A., [1995,eng] 50-3857
- Wind tunnel experiments on snowbreaks for Hokkaido highways. Sasaki, M., et al, [1995,jpn] 50-6798
- Winter maintenance: back to the basics. [1995,eng] 50-3856
- Winter operations: keeping crews safe. [1995,eng] 50-3291

- Winter road surface conditions of national highways in Sapporo. Takahashi, K., et al, [1995,jpn] 50-6793
- Winter road traffic census. Ueki, S., et al, [1992,jpn] 50-3140
- Zero-velocity deicer spreaders clear more roadway for less. Banasiak, D., [1995,eng] 50-3675
- Roadbeds**
- Effect of climate warming on the Qinghai-Tibet Highway, China. Tong, C.J., et al, [1996,eng] 50-3830
- Effect of introduced disturbances on the development of thermoserosional processes. Glavatskikh, V.V., et al, [1996,rus] 50-6404
- Forecasting of deformation of asphalt paved frozen roadbed of the Qinghai-Xizang Highway. Wu, Z.W., et al, [1989,chi] 50-1392
- Frost heave due to ice lens formation in freezing soils. 2. Field application. Sheng, D., et al, [1995,eng] 50-743
- Rapid test for the determination of frost susceptibility of soils. Leary, R.M., [1977,eng] 50-4259
- Raw material mixture for constructing roadbeds. Il'inskiĭ, B.P., et al, [1992,rus] 50-1913
- Strengthening railroad roadbed bases constructed on icy permafrost soils. Kondrat'ev, V.G., [1996,eng] 50-6164
- Winter-time conversion in open-graded embankments. Goering, D.J., et al, [1996,eng] 50-3827
- Roads**
- Analytical methods to study road construction encroachment on the environment. Ivehammar, P., [1996,swe] 50-6686
- Automated nowcasting model of road surface temperature and state for winter road maintenance. Shao, J., et al, [1996,eng] 50-6571
- Conception for the rehabilitation of transportation infrastructures in northern regions. Ladanyi, B., [1994,fr] 50-4946
- Flame spread over fuel-spilled and/or snow-covered asphalt road. Ishida, H., et al, [1996,eng] 50-4230
- Impact of potential TV tower icing on a nearby proposed expressway. Courtney, F.E., [1993,eng] 50-6664
- Manganese and other trace elements in urban snow near an expressway. Loranger, S., et al, [1996,eng] 50-5776
- New concept of durability of highway construction. Smirnov, A.V., [1995,rus] 50-724
- Polymer composition for plastic material. Lerner, B.Sh., et al, [1992,rus] 50-1939
- Prediction of frost heave of roads—a simple empirical model. Sætersdal, R., [1981,eng] 50-2139
- Statistical analysis of Thayer Hill Road heave data. Harr, M.E., et al, [1995,eng] 50-2030
- Technological improvement of biological reclamation of soils in Komi. Lobovikov, N.N., et al, [1994,rus] 50-291
- See [also]: Ice roads; Snow roads; Streets
- Rock creep**
- See [also]: Talus
- Rock drilling**
- Churchill Falls development. Canadian Industries Limited. Explosives Technical Marketing Services, [1971,eng] 50-5738
- Composite report on drilling and blasting of permafrost at Ferri-man Mine. Lang, L.C., [1964,eng] 50-5762
- Driving the diversion tunnel at Manic 3. Canadian Industries Limited. Explosives Technical Marketing Services, [1972,eng] 50-5737
- New permafrost blasting method developed at Asbestos Hill. Lang, L.C., [1976,eng] 50-5749
- Rock excavation**
- Blasting frozen iron ore at Knob Lake. Lang, L.C., [1966,eng] 50-5805
- Churchill Falls development. Canadian Industries Limited. Explosives Technical Marketing Services, [1971,eng] 50-5738
- Composite report on drilling and blasting of permafrost at Ferri-man Mine. Lang, L.C., [1964,eng] 50-5762
- Dam construction for Norway's largest hydropower reservoir. Karlens, L.E., et al, [1995,eng] 50-5707
- Driving the diversion tunnel at Manic 3. Canadian Industries Limited. Explosives Technical Marketing Services, [1972,eng] 50-5737
- Explosives in frozen ground. Roberts, A., [1971,eng] 50-5763
- New permafrost blasting method developed at Asbestos Hill. Lang, L.C., [1976,eng] 50-5749
- Thermal stresses on mine tunnels in frozen rock. Izakson, V.I.U., [1996,eng] 50-6495
- Rock fills**
- Dam construction for Norway's largest hydropower reservoir. Karlens, L.E., et al, [1995,eng] 50-5707
- Earth dams under confining pressure subject to freeze thaw. Ota, H., et al, [1995,jpn] 50-6735
- Flowthrough rockfill embankments: behavior in subzero temperatures. Hansen, D., et al, [1995,eng] 50-1841
- Influence of the properties of porous media on the durability of frozen calcareous rocks. Bellanger, M., et al, [1996,eng] 50-4862
- New, low-cost ice control structure. Part 1: concept development. Lever, J.H., et al, [1996,eng] 50-6158
- New, low-cost ice control structure. Part 2: construction and performance. Lever, J.H., et al, [1996,eng] 50-6159
- Restoration of Kakabeka Falls, Ontario, Canada. Grieve, R.G., et al, [1992,eng] 50-2763
- Surface modifications to reduce thaw degradation of permafrost. Zarling, J.P., et al, [1996,eng] 50-6111
- See [also]: Earth fills

Rock properties

- Rock glaciers**
- Assessment of rock glacier sliding velocity. Whalley, W.B., et al, [1995,eng] 50-2809
- Climate change impacts on glaciers and permafrost. Haeblerli, W., [1995,eng] 50-1012
- Debris transfer and sedimentary environments: alpine glaciated areas. Johnson, P.G., [1995,eng] 50-4828
- Dynamics of rock glaciers: data from Tröllaskagi, north Iceland. Whalley, W.B., et al, [1995,eng] 50-4833
- Electric soundings on polar landforms of the Northern Foothills. Guglielmin, M., et al, [1995,eng] 50-4391
- Geomorphic effects of the retreat of Jamapa Glacier, Pico de Orizaba Volcano (Mexico). Palacios, D., et al, [1996,eng] 50-5578
- Gravimetric investigation of permafrost on the Blockglaciers Murtel-Corvatsch (Oberengadin). Klingele, E., et al, [1993,ger] 50-4909
- Moraines and buried ice in Terra Nova Bay area. Meneghel, M., et al, [1994,ita] 50-2825
- Mountain permafrost and slope instability in the Italian Alps: the Val Pola landslide. Dramis, F., et al, [1995,eng] 50-669
- New Zealand talus-derived rock glacier climatic responses. Kirkbride, M., et al, [1995,eng] 50-6561
- Note on rock glaciers in the Albanian Alps. Palmentola, G., et al, [1996,eng] 50-6702
- Paleoclimatic interpretation of rock glacier dating. Nicholas, J.W., et al, [1996,eng] 50-5577
- Periglacial landforms and sediments in Argentina. Trombato, D., [1991,ger] 50-1684
- Quaternary glacial in the Andes. Heine, K., [1995,eng] 50-4837
- Seismic refraction soundings 1993 on rock glacier permafrost in north-western Svalbard. Wagner, S., [1995,eng] 50-851
- Supraglacial debris transport over time. Whalley, W.B., et al, [1996,eng] 50-6258
- Tian Shan rock glaciers and periglacial processes. Cui, Z.J., et al, [1989,chi] 50-1355
- Tien Shan: trends of changes in the geocryological conditions. Gorbunov, A.P., et al, [1996,rus] 50-6841
- Rock magnetism**
- See [also]: Remanent magnetism
- Rock mechanics**
- Algorithm for the solution to the axisymmetrical problem of the mechanics of frozen rocks. Sheptsov, V.I., [1992,rus] 50-813
- Characteristics of the distribution of absorbed ions in syn-cryogenic and epicyrogenic rocks. Ostroumov, V.E., [1996,rus] 50-6822
- Chemical weathering of rocks in the Hecla Hoek coal formations under polar climatic conditions. Chlebowski, R., [1989,pol] 50-2882
- Elastic fracture mechanics and fracture propagation in rock and ice. Fischer, M.P., [1994,eng] 50-696
- Experimental studies of the interaction of oil with cryogenic rocks. Ershov, E.D., et al, [1996,rus] 50-6823
- Features of the breakup of frozen dispersed rocks from their interaction with water. Vychuzhin, T.A., [1992,rus] 50-812
- Fracturing of glacial drift and bedrock over longwall mine panels. Johnston, M.A., et al, [1993,eng] 50-5517
- Geological transect of the Brooks Range, Alaska. Kelley, J.S., et al, [1995,eng] 50-5198
- Impact of Cenozoic uplift on offshore Norwegian hydrocarbon exploration. Doré, A.G., et al, [1996,eng] 50-5327
- Migration of chemical elements in frozen rocks. Chuvilin, E.M., et al, [1996,rus] 50-6820
- Nature of the displacement of dispersed rocks on slopes. Petrov, V.S., et al, [1996,rus] 50-6402
- New Zealand talus-derived rock glacier climatic responses. Kirkbride, M., et al, [1995,eng] 50-6561
- Observations of the mobility of rock streams in the Udokan Range. Romanovskii, N.N., et al, [1996,rus] 50-6403
- Off-rift and rift-zone palaeostresses in northwest Iceland. Gudmundsson, A., et al, [1996,eng] 50-6207
- Paleogeographic significance of Norwegian block field periglacial processes. Sellier, D., [1995,fr] 50-4878
- Perennially frozen rock as a site for burying industrial wastes. Borisov, V.N., et al, [1996,rus] 50-6824
- Proceedings of the First Conference of Russian Geocryologists, June 3-5, 1996, Moscow, Vol.2. Konferentsiia geokriologov Rossiĭ. 1st. Moscow State University, June 3-5, 1996, [1996,rus] 50-6808
- Sliding rocks at the Racetrack, Death Valley: what makes them move. Reid, J.B., Jr., et al, [1995,eng] 50-1106
- Till genesis through shear diffusion. Charbonneau, R., et al, [1995,eng] 50-3364
- Rock properties**
- Bedrock surface weathering on Finnish fjell summits. McCarroll, D., et al, [1996,eng] 50-5825
- Borehole method of determining the ice content and thermal properties of dispersed rocks. Rashkin, A.V., [1993,rus] 50-128
- Early stages of till genesis: an example from Fanore, County Clare, Ireland. Croft, D.G., et al, [1996,eng] 50-5828
- Ecological significance of German mountain periglacial deposits. Fröhlich, M., [1990,ger] 50-4565
- Evolving description of a fractured carbonate reservoir: the Lisburne Field, Prudhoe Bay, Alaska. Missman, R.A., et al, [1991,eng] 50-1755
- Freeze-thaw weathering: the cold region "panacea". Hall, K., [1995,eng] 50-4697
- General morphogenetic classification of the cryogenic textures of coarse detrital rocks. Shesternev, D.M., [1993,rus] 50-123

Rock streams

- Geochemical process responses to potential Scandinavian climatic change. Dixon, J.C., et al. [1995.eng] 50-4194
- Geology of a Spitsbergen fault zone. Lamar, D.L., et al. [1995.eng] 50-4296
- Glacial or non-glacial origin for the Bigganjarga tillite, Finnmark, northern Norway. Jensen, P.A., et al. [1996.eng] 50-4395
- Lichenometric dating of alpine Little Ice Age moraines. Winkler, S., et al. [1995.eng] 50-3396
- Lichens and rocks: a review. Easton, R.M., [1994.eng] 50-1252
- Lobal interactions and rheologic superposition in subglacial till near Bradville, Ontario, Canada. Hicock, S.R., [1992.eng] 50-2550
- Methane in frozen rocks and some aspects of forecasting its emission. Rivkin, F.M., [1996.rus] 50-6383
- Model for calculating the heat transfer coefficient for sedimentary rocks. Gavrilov, R.I., [1996.rus] 50-6818
- Note on rock glaciers in the Albanian Alps. Palmentola, G., et al. [1996.eng] 50-6702
- Paleoclimatic interpretation of rock glacier dating. Nicholas, J.W., et al. [1996.eng] 50-5577
- Parent materials of Wrangel Island. Oganessian, A.Sh., et al. [1995.eng] 50-1052
- Quaternary geochronology using the U-Th-Pb method. Getty, S.R., et al. [1995.eng] 50-496
- Rock massif response to subzero temperature fluctuations. Chislov, A.I., [1991.eng] 50-1745
- Rock-weathering by the lichen *Lecidea auriculata* in an arctic alpine environment. McCarroll, D., et al. [1995.eng] 50-416
- Secondary precipitates in Pleistocene and present cryogenic environments. Vogt, T., et al. [1996.eng] 50-4045
- Sedimentary petrogenesis and its characteristics in the cryolithozone. Danilov, I.D., [1995.eng] 50-6074
- Tectonic records derived from petrology at a glacier fringe. Pavlis, T.L., et al. [1995.eng] 50-1833
- Tectonic significance of alpine eclogites. Spalla, M.I., et al. [1996.eng] 50-5572
- Ventifacts as palaeo-wind indicators in southern Scandinavia. Schlyter, P., [1996.eng] 50-6698

Rock streams

- Dependence of rock stream development on geomorphological-tectonic features. Mal'chikova, I.I.U., [1993.rus] 50-117
- Engineering-geocryological problems in Transbaikali: collected scientific papers. Shesternev, D.M., ed. [1993.rus] 50-107
- Ice accumulation in rock streams of northern Transbaikali. Verkhonurov, A.G., [1993.rus] 50-118
- Method of interpreting rock streams from aerial photographs (AFS). Ryzhikh, A.M., et al. [1993.rus] 50-116
- Observations of the mobility of rock streams in the Udokan Range. Romanovskii, N.N., et al. [1996.rus] 50-6403

Rock temperature

See [also]: Frozen rock temperature

Rocks

- Arctic kelp community in the Alaskan Beaufort Sea. Dunton, K.H., et al. [1982.eng] 50-3681
- Comment on paper by Reid, Jr., et al. Sharp, R.P., et al. [1996.eng] 50-6540
- Contributions to antarctic research IV. Elliot, D.H., ed. et al. [1995.eng] 50-1190
- Late Holocene snow avalanche activity in southern Norway. McCarroll, D., et al. [1995.eng] 50-3336
- Lichens on Livingston and Robert Is. Valladares, F., et al. [1995.eng] 50-3779
- Low and high temperature materials storage. Inada, Y., [1993.eng] 50-103
- On the granulometric composition of coarse detrital rocks. Shesternev, D.M., [1993.rus] 50-120
- Percentage of local rocks in fluvio-glacial deposits in central Poland. Krzeminski, T., et al. [1993.pol] 50-3662
- Regularities in the changes of composition of coarse detrital rock. Druzhinin, A.S., et al. [1993.rus] 50-121
- Using local peat and stripped rocks from quarries to recultivate lands in the Far North. Rozhdestvenskii, I.U.F., et al. [1994.rus] 50-296

See [also]: Frozen rocks; Lithology

Romania

- Ice and snow damage to high voltage overhead lines in Romania. Goia, L.M., et al. [1996.eng] 50-5366
- Romanian experience in meteorological zoning for designing of overhead lines (OLs). Goia, L.M., [1996.eng] 50-5332

Roofs

- Automated roof-snow remover. Kobayashi, T., et al. [1995.jp] 50-988
- Covering Kreiman, A.B., [1982.rus] 50-2054
- Effects of roof size on snow loads. Irwin, P.A., et al. [1995.eng] 50-3010
- Ice dam melting system. Tourangeau, D.R., et al. [1995.eng] 50-3481
- Ice shell roof for use in cold areas. Kokawa, T., [1984.eng] 50-3166
- Insulating structure. Ericsson, B., [1989.eng] 50-2340
- Investigation and repair of a terra cotta dome in a cold climate. Ogle, R., et al. [1995.eng] 50-1978
- Progress report on experimental projects for snowproof housing. Takayama, Y., [1988.jp] 50-2287
- Railroad tracks on ice-rich permafrost. Kondrat'ev, V.G., et al. [1992.rus] 50-1925
- Research report on snowproofing of houses. Uchida, Y., ed. [1984.jp] 50-2291

- Roof blisters: cause and cure. Korhonen, C.J., et al. [1995.eng] 50-394
- Snow guard. Smeja, G.C., et al. [1995.eng] 50-3474
- Snow guards for metal roofs. Tobiasson, W., et al. [1996.eng] 50-6140
- Snowproof houses Plan 50.[1986.jp] 50-2293
- Study of Alaskan snow loads. Stember, J.A., [1994.eng] 50-370
- Ventilated cap system for the ridge of a roof. Sells, G.L., [1995.eng] 50-3466

Roots

- Biomass and production of vascular plants in a mesotrophic fen. Saarinen, T., et al. [1994.eng] 50-3215
- Desiccation of white spruce seedlings planted in the southern boreal forest of British Columbia. Krasowski, M.J., et al. [1995.eng] 50-766
- Effect of root fungi on subarctic plant growth. Fernando, A.A., et al. [1996.eng] 50-6747
- Fine root production and decomposition on drained peatlands. Finer, L., et al. [1994.eng] 50-3217
- Geographic information system for SILMU and the modelling of soil carbon flows. Alm, J., et al. [1994.eng] 50-3230
- Isotope analysis of variable subarctic plant nutrient access. Michelsen, A., et al. [1996.eng] 50-5772
- Low temperature ecology of a plant root bacterium. Sun, X.Y., et al. [1995.eng] 50-2733
- Nitrogen fixation in arctic vegetation and soils from Svalbard, Norway. Solheim, B., et al. [1996.eng] 50-4007
- Role of above-ground biomass in carbon cycling in drained peatland ecosystems. Laiho, R., et al. [1994.eng] 50-3216
- Tall and hard fescue responses to periodic soil water deficits. Brar, G.S., et al. [1995.eng] 50-2475

Rotary drilling

- Arctic tool cuts teeth on gloryhole.[1987.eng] 50-4288
- Large-diameter glory hole drilling: the evolution from 12- to 20-ft diameter. Shields, R.G., [1991.eng] 50-1738

Roughness coefficient

See [also]: Surface roughness

Route surveys

- Algorithm for optimizing road salting routes. Li, L.Y.O., et al. [1996.eng] 50-4011
- Antarctic commute: CRREL searches for safe land route to South Pole. Chalmers, P., [1996.eng] 50-3239
- Arctic Pilot Project integrated route analysis. Chapter 2. Physical aspects of the route areas.[1981.eng] 50-3558
- Choosing the route of overhead lines in the Czech Republic. Zalesák, Z., et al. [1996.eng] 50-5398
- Effects of northern shipping and storage on corrosion performance. Perrigo, L.D., III, et al. [1996.eng] 50-5952
- Experimental voyage through Northern Sea Route. Yamaguchi, H., et al. [1996.jp] 50-5874
- How terrain and road design affect winter maintenance on the Klondike Highway. Tabler, R.D., et al. [1993.eng] 50-5595
- Indiana streamlines permitting and ice/snow removal. Pittman, R., [1996.eng] 50-3495
- Lake Erie ice scour study. Lake, K., [1991.eng] 50-491
- Operations management for urban snow removal and disposal. Campbell, J.F., et al. [1995.eng] 50-1107
- Route location and siting of roads and airfields. Schraeder, R.L., et al. [1996.eng] 50-6187
- Transportation of Alaska North Slope natural gas to market. Lannom, D.A., et al. [1996.eng] 50-6126
- West Siberian oil and the northern sea route: current situation and future potential. Kriukov, V., et al. [1995.eng] 50-6104

Rubber

- Basic characteristics of antiskid rubber mats for roads. Yoshino, M., et al. [1995.jp] 50-6805
- Earthquake shock absorbers for bridges in cold regions. Sato, M., et al. [1993.jp] 50-2839
- Friction of rubber at low temperature. Uchiyama, Y., et al. [1995.jp] 50-3514
- History of snow tire. Aoi, H., [1995.jp] 50-3513
- Ice-preventive covering. Persson, S., et al. [1992.eng] 50-2232
- Material characteristics of studless tire. Hirata, Y., [1995.jp] 50-3515
- Pneumatic tire with improved drivability on icy roads. Harada, M., et al. [1993.eng] 50-3486
- Pneumatic tires. Morimoto, Y., et al. [1992.eng] 50-2329
- Rubber composition for tire treads. Takao, H., et al. [1987.jp] 50-3485
- Rubber stock for rubber coverings. Liubashevskii, M.I., et al. [1992.rus] 50-1917

Rubber ice friction

- Analysis of winter skid accidents in Sapporo City. Nagai, T., et al. [1994.jp] 50-2827
- Effects of widespread use of studless tire on traffic conditions. Horita, N., et al. [1994.jp] 50-2829
- Friction of rubber at low temperature. Uchiyama, Y., et al. [1995.jp] 50-3514
- History of snow tire. Aoi, H., [1995.jp] 50-3513
- Material characteristics of studless tire. Hirata, Y., [1995.jp] 50-3515
- Pneumatic tire with improved drivability on icy roads. Harada, M., et al. [1993.eng] 50-3486
- Pneumatic tires. Morimoto, Y., et al. [1992.eng] 50-2329
- Road surface covered with snow and ice and traffic accidents in Hokkaido. Takagi, H., [1995.jp] 50-3512
- Roadside temperature displays and use of studless tires. Takagi, H., [1993.jp] 50-2840
- Rubber composition for tire treads. Takao, H., et al. [1987.jp] 50-3485

- Rubber stock for rubber coverings. Liubashevskii, M.I., et al. [1992.rus] 50-1917
- Standard test methods for tire performance testing on snow and ice surfaces. American Society for Testing and Materials, [1995.eng] 50-886
- Trends in winter tires as seen in the patents. Iwasaki, S., [1995.jp] 50-994
- Vehicle traction performance comparison for Alaska winter seasons. Lu, J.J., [1996.eng] 50-6162

Rubber snow friction

- Methodology for predicting for winter conditions in the NATO Reference Mobility Model. Ahlvin, R.B., et al. [1995.eng] 50-48
- Modelling vehicle mobility over multi-layered deep snowcover. Irwin, G.J., et al. [1995.eng] 50-50
- Observations of snow deformation by a wheel. Richmond, P.W., [1995.eng] 50-49

Runoff

- ²³⁴Th as an indicator of particulate fluxes in the Kara Sea. Kuptsov, V.M., et al. [1995.eng] 50-3544
- Alternative road construction for stormwater management in cold climates. Stenmark, C., [1995.eng] 50-2532
- Anthropogenic climate change and reduction of water resources. Golubtsov, V.V., et al. [1996.eng] 50-5055
- Assessment of hydrological changes. Hiltunen, T., [1994.eng] 50-3184
- Balancing safety and the environment. Mericas, D., et al. [1994.eng] 50-2123
- Calculating the hydrography of glacier runoff considering the travel time. Pertsiger, F.I., [1991.rus] 50-15
- Calculating thermal and water resources of small river catchment areas in Siberia: part 2. Karnasevich, I.V., [1991.rus] 50-132
- Channel erosion during flooding of alpine streams. Becht, M., [1996.eng] 50-5251
- Characteristics of runoff formation at the Kirgizskiy Alatau, Tien Shan. Aizen, V.B., et al. [1995.eng] 50-2435
- Characteristics of water quality in a forest river during the snow melting period. Tachibana, H., et al. [1994.eng] 50-4222
- Chemical and isotopic tracers of snowmelt flowpaths in a subalpine watershed. Miller, E.K., et al. [1995.eng] 50-2427
- Chemical composition of suspended sediments in the Lena River and its mixing zone. Gordeev, V.V., et al. [1995.eng] 50-2081
- Classification of wetland and muskeg terrain. Pietroniro, A., et al. [1996.eng] 50-5541
- Climate change and water resources in Vuoksi watershed. Vehviläinen, B., et al. [1994.eng] 50-3195
- Climate change and water resources of watersheds in the Sierra Nevada. Pupacko, A., et al. [1992.eng] 50-3031
- Climate change impact on hydrology and cryology. Selthun, N.R., [1995.eng] 50-1005
- Climate change impacts on glaciers and permafrost. Haeblerli, W., [1995.eng] 50-1012
- Climate change impacts on snow cover: modelling case studies in Switzerland and the French Western Alps. Baumgartner, M.F., et al. [1995.eng] 50-1013
- Climate change in mountain environments. Willis, L., et al. [1995.eng] 50-1522
- Climate change, hydrology, and channel morphology of the Gunnison River. Parker, R.S., et al. [1992.eng] 50-3032
- Climate, snow cover, glaciers, and runoff in the Tien Shan, central Asia. Aizen, V.B., et al. [1995.eng] 50-2538
- Coastal environments of the western Kara and eastern Barents Seas. Pfirmann, S.L., et al. [1995.eng] 50-4558
- Comment on paper by Schaefer et al. Davies, T.D., et al. [1996.eng] 50-3647
- Conditions for formation and variability of flood flow of rivers in northern Tien Shan. Sumarokova, V.V., [1973.rus] 50-435
- Contribution to the hydrological and hydrochemical response of mountain basins. Babiková, G., et al. [1994.eng] 50-3670
- Degradation of glaciation and runoff fluctuations in the upper Naryn River. Diuerov, M.B., et al. [1994.rus] 50-3488
- Degree-day glacier mass balance modelling. Johannesson, T., et al. [1995.eng] 50-455
- Determination of snowmelt factor in the Himalayan region. Singh, P., et al. [1996.eng] 50-5705
- Distribution of oxygen and nutrients in the Laptev Sea in summer. Pivovarov, S.V., et al. [1995.eng] 50-2079
- Dissolved inorganic carbon in the Kara Sea and in the mouths of the Ob and Yenisey Rivers. Makkaveev, P.N., [1995.eng] 50-3533
- Distribution of river run-off in the Laptev Sea: the environmental effect. Dmitrenko, I.A., et al. [1995.eng] 50-2077
- Distribution of river water and suspended sediments in the river deltas of the Laptev Sea. Ivanov, V.V., et al. [1995.eng] 50-2080
- Distribution of trace elements in the Laptev Sea. Hölemann, J.A., et al. [1995.eng] 50-2098
- Effect of climate change on erosion and nutrient transport from arable land. Kallio, K., et al. [1994.eng] 50-3196
- Effect of climate change on hydrologic regime of two climatically different watersheds. Loukas, A., et al. [1996.eng] 50-6100
- Effect of snow hydrology on glacial runoff. Fountain, A.G., [1996.eng] 50-6084
- Effects of acidification on plankton biomass in high mountain lakes. Engle, D., et al. [1995.eng] 50-2149
- Effects of avalanche snow redistribution on summer streamflow variations. de Scally, F.A., [1996.eng] 50-4333

Runoff forecasting

Runoff forecasting

- Effects of climate change on water supplies in mountainous snowmelt regions. Rango, A., [1995,eng] 50-6617
- Effects of contour-line strip-cutting of trees on snowmelt runoff. Shimizu, T., et al., [1996,jpn] 50-3500
- Effects of temperature and solar radiation on glacier melting. Drozdov, O.A., et al., [1973,rus] 50-432
- Energy balance model for a small valley glacier, pt.1. Arnold, N.S., et al., [1996,eng] 50-4893
- Energy—water—mass balance and hydrological discharge. Kang, E.S., [1994,eng] 50-5576
- Estimation of climate change effect on the runoff: catchment-scale application of SOIL-model. Roos, J., et al., [1994,eng] 50-3194
- Firn boundary as a high altitude ridge of the belt flow in mountain basins. Shcheglova, O.P., [1973,rus] 50-434
- Fluvial morphology and streamflow on Deception Island, Antarctica. Inbar, M., [1995,eng] 50-4190
- Fluvial sediment transfer in the Central Alps. Höfner, T., [1993,ger] 50-3335
- Forecast of rain erosion of tundra soils on the Yamal Peninsula. Grigor'ev, V.I.A., et al., [1996,eng] 50-5448
- Framework for modeling the effects of climate change on material fluxes in forested catchments. Holmberg, M., et al., [1994,eng] 50-3197
- Fresh water in Svalbard fjord ecosystems. Węsławski, J.M., et al., [1995,eng] 50-4137
- Freshwater impact on Hudson Bay ecosystems under sea ice, pt.1. Ingram, R.G., et al., [1996,eng] 50-4019
- Freshwater impact on Hudson Bay ecosystems under sea ice, pt.2. Legendre, L., et al., [1996,eng] 50-4020
- Geochemistry of Lena River suspended sediments. Rachold, V., [1995,eng] 50-2095
- Glacial to modern changes in global river fluxes. Baker, V.R., [1994,eng] 50-1240
- Glacial-hydrological studies of the Syr Darya basin. Kamalov, B.A., [1973,rus] 50-426
- Glacier runoff in the Sarydzhas River basin. Kononov, V.G., et al., [1991,rus] 50-16
- Gulf of Mexico meltwater influx during Laurentide deglaciation. Marchitto, T.M., et al., [1995,eng] 50-340
- Hydrochemical indicators of subglacial drainage system structure. Tranter, M., et al., [1996,eng] 50-6086
- Hydrochemical processes during snowmelt in a subalpine watershed, Colorado, USA. Peters, N.E., et al., [1995,eng] 50-2423
- Hydrologic pathways in an alpine watershed. Mast, M.A., et al., [1995,eng] 50-2418
- Hydrology of Bregger Glacier, Spitsbergen. Kodama, Y., et al., [1995,eng] 50-3249
- Impurities in surface meltwater from a Tian Shan glacier. Goto-Azuma, K., et al., [1995,eng] 50-613
- Influence of runoff from land on the distribution of hydrologic characteristics of the Kara Sea. Burenkov, V.I., et al., [1995,eng] 50-3531
- Initial analyses of Eagle River Flats hydrology and sedimentology. Fort Richardson, Alaska. Lawson, D.E., et al., [1995,eng] 50-392
- Integrated approach to modelling hydrology and water quality in glacierized catchments. Richards, K.S., et al., [1996,eng] 50-6083
- Interannual climate variability and snowpack in the western United States. Cayan, D.R., [1996,eng] 50-5529
- Interannual variability of sea-level pressure, sea-ice and runoff over the Arctic. Power, S.B., et al., [1991,eng] 50-5258
- International gaging station established on the Alsek River. Desch, N., et al., [1995,eng] 50-3752
- Isotopic tracing of nitrate sources in snowmelt runoff. Kendall, C., et al., [1995,eng] 50-2426
- Lake acidification during mountain snowmelt. Stoddard, J.L., [1995,eng] 50-4076
- Leaching of organic carbon and nitrogen from forested catchments. Kortelainen, P., et al., [1994,eng] 50-3221
- Lipid geochemistry of the Kara Sea bottom sediments. Beliaeva, A.N., et al., [1996,eng] 50-4867
- Major, minor, and trace element chemistry of surface waters in the Everest region of Nepal. Reynolds, B., et al., [1995,eng] 50-2434
- Map of the annual river runoff in the Pamirs and Pamir-Alay. Kemmerikh, A.O., [1972,rus] 50-533
- Marginal filter of the ocean. Lisitsyn, A.P., [1995,eng] 50-3542
- Mass balance and runoff data at Gulkana Glacier, Alaska, 1992. March, R.S., et al., [1996,eng] 50-4603
- Mass balance of the Marukh Glacier for 1968-1970. Menshutin, V.M., [1972,rus] 50-527
- Modeling the effects of climate change, air pollutants and land use on freshwater ecosystems: summary. Kauppi, L., et al., [1994,eng] 50-3192
- Modeling the effects of climatic change on phosphorus transport from a drainage basin. Bilaleidin, A., et al., [1994,eng] 50-3199
- Naleds in the Suntar-Khayata Mountains. Koreisha, M.M., [1972,rus] 50-552
- Natural and technogenic water and sediment supply to the Laptev Sea. Alabian, A.M., et al., [1995,eng] 50-2094
- Nitrogen deposition and release in alpine watersheds, Loch Vale, Colorado, USA. Campbell, D.H., et al., [1995,eng] 50-2416
- Numerical landscapes: static, kinematic and dynamic process-form relations. Richards, K., et al., [1995,eng] 50-4153
- Object-GAWSER: object-oriented Guelph all-weather storm-event runoff model. Phase 1: training manual. Hinckley, J.A., Jr., [1996,eng] 50-4545
- Odor removal processes for ice-covered river runoff. Hrudev, S.E., et al., [1995,eng] 50-1524
- On the interannual variability of precipitation and runoff in the Mackenzie drainage basin. Bjornsson, H., et al., [1995,eng] 50-2737
- Outflow of Lena River water to the Laptev Sea. Golovin, P.N., et al., [1995,eng] 50-2075
- Phosphorus in river runoff. Savenko, V.S., et al., [1995,rus] 50-4122
- Plant nutrient runoff in Norwegian watersheds. Haraldsen, T.K., et al., [1995,eng] 50-741
- Precipitation and river runoff in an ice-ocean model of the Arctic. Weatherly, J.W., [1994,eng] 50-675
- Preliminary hydrological results from Sarennes glacier basin, French Alps. Barbet, D., et al., [1993,eng] 50-5690
- Protection against chloride-induced corrosion. Berke, N.S., et al., [1988,eng] 50-4229
- Reassessment of the Eurasian river input of water, sediment, major elements, and nutrients to the Arctic Ocean. Gordeev, V.V., et al., [1996,eng] 50-5693
- Reconstructed runoff from the high arctic basin Bayelva based on mass-balance measurements. Hagen, J.O., et al., [1995,eng] 50-4013
- Remote sensing in hydrology and water management. Haefer, H., et al., [1992,eng] 50-621
- Response of leaching from mire ecosystems to changing climate. Sallantausta, T., [1994,eng] 50-3222
- River pollution of Russian northern seas. Rovinskiĭ, F.I.A., et al., [1995,eng] 50-6548
- RIVER3: simulation of river discharge and sediment transport. Syvitski, J.P.M., et al., [1995,eng] 50-3597
- Role of glaciers in river runoff in Central Asia. Kemmerikh, A.O., [1972,rus] 50-523
- Runoff and sediment yield under grazing in foothills fescue grasslands of Alberta. Naeth, M.A., et al., [1996,eng] 50-3340
- Runoff composition in a bedrock catchment watershed. Clow, D.W., et al., [1995,eng] 50-2415
- Russian oceanographic expedition in the Kara Sea. Lisitsyn, A.P., et al., [1995,eng] 50-3530
- Russian soil depletion by snowmelt. Chernyshev, E.V., et al., [1995,eng] 50-2148
- Russian-German cooperation: Laptev Sea system. Kassens, H., ed, et al., [1995,eng] 50-2059
- Seasonal freezing and soil erosion during snowmelt. Demidov, V.V., et al., [1995,eng] 50-2714
- Sedimentary environment of the Laptev Sea: preliminary results of the TRANSDRIFT II Expedition. Dehn, J., et al., [1995,eng] 50-2100
- Simulation of runoff processes of a continental mountain glacier in the Tian Shan, China. Kang, E.S., et al., [1995,eng] 50-2439
- Snow and water chemistry of a headwater alpine basin. Urumqi River, Tian Shan, China. Liu, F.J., et al., [1995,eng] 50-2413
- Snow in the Spanish Cordilleras. ERHIN Program. 1991/92. [1995,spa] 50-1691
- Snowmelt, global warming, and water level of Lake Biwa. Ikebuchi, S., [1992,eng] 50-3029
- Some lithological-geochemical features of modern bottom sediments of the Laptev Sea shelf. Iakovlev, A.V., [1995,eng] 50-2101
- Some results of integrated studies of the Alaarcha River basin. Tsytsenko, K.V., [1973,rus] 50-428
- Source areas for storm runoff generation estimated by isotope methods and the TOPMODEL. Lepistö, A., et al., [1994,eng] 50-3193
- Stream flow hydrographic separation during watershed snowmelt. Suckey, J.K., [1995,eng] 50-2419
- Streamflow generation in a headwater basin on the Precambrian Shield. Wells, C., et al., [1991,eng] 50-3680
- Streamwater quality variations in a Colorado alpine environment. Caine, N., [1995,eng] 50-4189
- Study of concrete bridges exposed to deicing salts. Novokshchenov, V., [1989,eng] 50-4225
- Study of the calcareous microfauna from Laptev Sea sediments. Bauch, H.A., et al., [1995,eng] 50-2102
- Subglacial chemical erosion in a Swiss mountain glacier. Brown, G.H., et al., [1996,eng] 50-6236
- Subglacial meltwater composition sampled through boreholes. Lamb, H.R., et al., [1995,eng] 50-2433
- Surface sediment mineralogy of the Laptev Sea. Wahner, M., [1995,eng] 50-2099
- Surface water chemistry in alpine watersheds. Stottmeyer, R., et al., [1995,eng] 50-2424
- Surficial weathering fluxes and their geochemical controls. Lerman, A., [1994,eng] 50-1238
- Upland watershed hydrochemical response to acidification during snowmelt. Allan, C., [1995,eng] 50-5210
- Use of remotely sensed data in the hydrological modelling of the upper Columbia watershed. Kite, G.W., [1996,eng] 50-5538
- Use of sulfur-35 and tritium to study runoff from an alpine glacier. Wind River Range, Wyoming. Michel, R.L., et al., [1995,eng] 50-2437
- Variability of arctic sea ice along the Northern Sea Route. Ono, N., [1996,eng] 50-4477
- Water balance of the Alps. Chernogaeva, G.M., [1973,rus] 50-436
- Water, ice, and meteorological measurements, South Cascade Glacier, 1994. Krimmel, R.M., [1995,eng] 50-53
- Yukon Territory snow survey bulletin & water supply forecast: April 1, 1996. Canada. Indian and Northern Affairs. Water Resources Division, [1996,eng] 50-4294
- See [also]: Stream flow
- Runoff forecasting**
- Application of a heat balance method to long-term snowmelt runoff analysis. Kurashima, E., et al., [1996,jpn] 50-4927
- Application of subspace method in snow recognition. Liu, Z.K., et al., [1990,chi] 50-6659
- Arctic river database. Global Runoff Data Centre (GRDC), Koblenz, Germany, [1995,eng] 50-6592
- ARNO rainfall-runoff model. Todini, E., [1996,eng] 50-3729
- Canadian development and use of snow cover information from passive microwave satellite data. Goodison, B.E., et al., [1995,eng] 50-4177
- Climate change and GCM simulation of water resources from mountain snowpack. McGinnis, D.L., [1994,eng] 50-6690
- Climatic influences on Chinese water resources. Shi, Y.F., et al., [1995,eng] 50-4231
- Climatic trends in the Colorado-Big Thompson Project area. U.S. Bureau of Reclamation. Denver Office, Denver, CO, [1994,eng] 50-5007
- Distributed approach to modeling snowmelt runoff in alpine catchments. Bales, R., et al., [1992,eng] 50-3030
- Distributed snow process modeling: an image processing approach. Davis, R.E., et al., [1995,eng] 50-3108
- Distributed snow process modelling: an image processing approach. Davis, R.E., et al., [1995,eng] 50-2462
- Dynamic monitoring information system for snow of remote sensing imagery. Liu, Z.K., et al., [1990,chi] 50-6657
- Dynamic research by remote sensing on typical region in the Yellow River Valley. Tian, G.L., ed, [1990,chi] 50-6649
- Estimating snowmelt runoff erosion indices for Canada. Hayhoe, H.N., et al., [1995,eng] 50-967
- Estimation of mean velocity for flow under ice cover. Teal, M.J., et al., [1995,eng] 50-4040
- Estimation of snowmelt volume using air temperature and wind speed. Hasebe, M., et al., [1995,eng] 50-1958
- Flow and freezing boundary conditions for snow-melt infiltration into a frozen soil. Tao, Y.X., et al., [1993,eng] 50-4550
- Forecast of spring snowmelt runoff in the upper Yellow River. Lan, Y.C., et al., [1990,chi] 50-6652
- Fuzzy region segmentation of snow remote sensing imagery. Liu, Z.K., et al., [1990,chi] 50-6660
- Hydrological effects of hypothetical climate change in the East River basin, Colorado, USA. McCabe, G.J., Jr., et al., [1995,eng] 50-740
- Hydrological modelling of watershed snowmelt runoff. Bathurst, J.C., et al., [1996,eng] 50-3728
- Hydrometeorological aspects of flood hazards in Canada. Lawford, R.G., et al., [1995,eng] 50-1853
- Hydrometeorological aspects of flood hazards in Canada. Lawford, R.G., et al., [1995,eng] 50-1853
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al., [1995,eng] 50-3123
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al., [1995,eng] 50-6046
- Improved fuzzy clustering algorithm for snow recognition. Liu, Z.K., et al., [1990,chi] 50-6658
- Information system for snowmelt runoff in Qinghai Province. Feng, X.Z., et al., [1990,chi] 50-6655
- ISWRIS information system for runoff forecasting of the upper Yellow River. Wang, J., et al., [1990,chi] 50-6656
- Joint probability analysis for design storm evaluation. Kaur, S., et al., [1993,eng] 50-233
- Meltwater generation, infiltration and runoff from the Greenland ice sheet. Zou, J.H., [1993,eng] 50-699
- Modeling measurement errors when estimating snow water equivalent. Carroll, S.S., [1995,eng] 50-2605
- Modelling the redistribution of runoff caused by global warming. Martinec, J., et al., [1994,eng] 50-5202
- NOAA satellite snow cover monitoring of the upper Yellow River. Chen, X.Z., et al., [1990,chi] 50-6653
- Preliminary considerations for runoff modelling in GCMS. Versegny, D., [1994,eng] 50-5701
- Preliminary considerations for runoff modelling in GCMS. Versegny, D., [1994,eng] 50-5701
- Regional snow and water balance models. Xu, C.Y., et al., [1996,eng] 50-5835
- Response of snowmelt hydrology to climate change. Brubaker, K.L., et al., [1996,eng] 50-6614
- Review of design storm and flood studies for Salal Dam in Chenab basin. Rao, P.R., et al., [1993,eng] 50-234
- Revisiting the degree-day method for snowmelt computations—discussion. Hoggard, C.D.D., [1996,eng] 50-4411
- Revisiting the degree-day method for snowmelt computations. Rango, A., et al., [1995,eng] 50-1653
- Runoff index values for frozen soil areas of the Pacific Northwest. McCool, D.K., et al., [1995,eng] 50-3525
- Runoff index values for frozen soil areas of the Pacific Northwest. McCool, D.K., et al., [1995,eng] 50-3525
- Runoff modeling of a debris-covered glacier in Nepal. Rana, B., et al., [1996,eng] 50-5509
- Satellite snow monitoring and runoff forecasting for the Yellow River. Zeng, Q.Z., [1990,chi] 50-6650
- Scaling of input data for macroscale hydrologic modeling. Kite, G.W., [1995,eng] 50-2544

Runways

- Simple energy budget algorithm for the snowmelt runoff model. Kustas, W.P., et al. [1994,eng] 50-3819
- Simulation of soil moisture variations reflecting the hydrological cycle. Akinremi, O.O., et al. [1996,eng] 50-5918
- Snow hydrological parameters for modelling river runoff. Kuchment, L.S., et al. [1996,eng] 50-5519
- Snow survey bulletin & water supply forecast, March 1, 1996, Yukon Territory, Canada. Indian and Northern Affairs. Water Resources Division. [1996,eng] 50-3710
- Snow survey bulletin & water supply forecast, May 1, 1996, Yukon Territory, Canada. Indian and Northern Affairs. Water Resources Division. [1996,eng] 50-4612
- Snow surveying in Canada: a perspective. Goodison, B.E., et al. [1987,eng] 50-4907
- Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-2461
- Snowmelt hydrologic model of the Upper Sheep Creek watershed. Jackson, T.H.R., [1994,eng] 50-701
- Studies on prediction method of snowmelt runoff in the upper reaches of the Yellow River. Song, Q., [1990,chi] 50-6654
- Study on snowmelt runoff prediction using weekly weather forecast. Hattis, S., et al. [1995,eng] 50-1959
- Use of satellite data for river basin snow cover surveys. Krishna, A.P., [1996,eng] 50-4015
- Variation in snowmelt alimentation of annual river runoff. Bolgov, M.V., et al. [1996,eng] 50-5860
- Winter-spring snow cover distribution in the upper Yellow River. Chen, X.Z., et al. [1990,chi] 50-6651

Runways

- Antarctic airfields. Mellor, M., [1995,eng] 50-1192
- Case study of insulated pavement in Jackman, Maine. Kestler, M.A., et al. [1995,eng] 50-1155
- Concepts for frost design for upgraded runway at CONUS Base 18. Johnson, T.C., [1984,eng] 50-2308
- Developments in airport ice control chemicals. Townshend, T., [1995,eng] 50-3119
- Frost action in subgrades of roads and airfields. Pufahl, D.E., [1996,eng] 50-6188
- Ice prediction systems for runways. Haavasoja, T., et al. [1991,eng] 50-3268
- Long-term evaluations of insulated roads and airfields in Alaska. Esch, D.C., [1995,eng] 50-1156
- Low temperature cracking and rutting in asphalt concrete pavements. Vinson, T.S., et al. [1996,eng] 50-6192
- Material properties, specifications and testing for pavements in cold regions. Chamberlain, E.J., et al. [1996,eng] 50-6195
- Material delivery to A-SSP Station. DenHartog, S.L., et al. [1995,eng] 50-1195
- Mechanistic design of asphalt concrete pavements in cold regions. Vinson, T.S., et al. [1996,eng] 50-6191
- Military specification MIL-D-8341A(USAF). Deicer/anti-icer fluid (for runways and taxiways). U.S. Air Force, [1973,eng] 50-4607
- Road and airfield design for permafrost conditions. Esch, D.C., [1996,eng] 50-6190
- Road and airfield development in the subarctic and Arctic, Alaska and northwest Canada. Rooney, J.W., et al. [1996,eng] 50-6186
- Road and airfield maintenance in cold regions. Becker, J.C., et al. [1996,eng] 50-6193
- Roads and airfields in cold regions. Vinson, T.S., ed. et al. [1996,eng] 50-6185
- SNOTAMs: Advisories on airport snow and ice conditions. Hamm, J., [1996,eng] 50-3685
- Use of geosynthetics in road and airfield construction in cold regions. Kinney, T.C., [1996,eng] 50-6194
- Use of layered theory in the design and evaluation of pavement systems. Hicks, R.G., et al. [1982,eng] 50-5914
- See [also]: Aircraft landing areas; Ice runways

Russia

- Active layer of perennally frozen ground as a natural self-regulating system. Krivoshechekov, V.S., [1996,eng] 50-6395
- Analysis of morphological characteristics of regions of glaciation. Vinogradov, O.N., et al. [1972,eng] 50-547
- Analysis of the air temperature in the Holocene using various methods. Baranova, N.A., et al. [1996,eng] 50-6350
- Arctic and Russia. Granberg, A.G., [1996,eng] 50-4422
- Arctic shelf in the last cryogenic epoch of the Late Pleistocene. Danilov, I.D., [1996,eng] 50-6353
- Basic state of engineering geocryological zoning. Bobov, N.G., [1996,eng] 50-6362
- Characteristics of applied geomorphological studies in regions with Pleistocene ice sheets. Spiridonov, A.I., [1995,eng] 50-3772
- Characteristics of the development of thermo-erosional gullies on mid-alassy slopes. Varlamov, S.P., [1996,eng] 50-6405
- Characteristics of the geocryological conditions in shallow water areas in the cryolithozone. Buldovich, S.N., [1996,eng] 50-6389
- Commercial aspects of the Northern Sea Route. Ivanov, I.U.M., [1996,eng] 50-4444
- Construction of non-class bridges and sea moorings under the conditions of the European North. Okin, E.I., et al. [1995,eng] 50-3081
- Cryogenic phenomena in the lithosphere. Gavrilov, A.V., et al. [1996,eng] 50-6352
- Cryolithozone structure in an oil and gas-bearing province supply. Dedeev, V.A., et al. [1990,eng] 50-1630
- Current policy of the Russian Federation regarding development and management of the Northern Sea Route System. Anikainen, A.I., et al. [1996,eng] 50-4450

- Deformation properties of saline frozen rocks. Brushkov, A.V., [1996,eng] 50-6829
- Degradation of the cryolithozone in Russia under global climatic warming. Ershov, E.D., et al. [1996,eng] 50-6840
- Development of transportation centers and communications in northwestern Russia. Konjukhov, A.P., [1995,eng] 50-3078
- Ecological situation in Russia and environmental protection in Magadan. Chernen'kii, B.I., [1991,eng] 50-439
- Effect of introduced disturbances on the development of thermo-erosional processes. Glavatskiikh, V.V., et al. [1996,eng] 50-6404
- Effect of soil-ground and surface conditions on the insulating properties of snow cover. Konstantinov, P.I.A., [1996,eng] 50-6393
- Genetic differentiation in the population of common pine in northwestern Russia. IANbaev, I.U.A., et al. [1994,eng] 50-272
- Geochemical fields in the cryolithozone. Makarov, V.N., [1996,eng] 50-6381
- Geocryological conditions for power plant foundations in Russia. Krivonogova, N.F., et al. [1991,eng] 50-1736
- Geocryological reconstructions for the central Russian Plain. Ershov, E.D., et al. [1996,eng] 50-6354
- Geological specifics in the natural dynamics of the subarctic cryolithozone. Oberman, N.G., [1996,eng] 50-6850
- Global climate change adaptation: examples from Russian boreal forests. Dixon, R.K., et al. [1996,eng] 50-5056
- II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973, [1973,eng] 50-5139
- Legal status of the Northern Sea Route. Timchenko, L.D., [1996,eng] 50-4454
- Lichenometric indications of the intensity of some exogenic processes. Galanin, A.A., [1996,eng] 50-6413
- Method of determining the surface boundary conditions for geocryological forecasting. Ershov, E.D., et al. [1996,eng] 50-6838
- Model of frozen strata in the cryolithozone. Gravis, G.F., [1996,eng] 50-6373
- Moisture transfer, water-soluble substances and structural transformation during freezing. Brovka, G.P., et al. [1996,eng] 50-6821
- Nature of the displacement of dispersed rocks on slopes. Petrov, V.S., et al. [1996,eng] 50-6402
- New challenges for the pipeline engineer in the Russian Arctic. Brown, R.J., [1995,eng] 50-212
- New concept in studying and forecasting frost heave. Nevecheva, V.L., [1996,eng] 50-6398
- New data on the geology and paleogeography of the Late Pliocene-Middle Pleistocene in Eurasia. Kostiaev, A.G., [1996,eng] 50-6355
- New protected areas in Russia in the framework of a circum-polar protected area network plan. Prokosh, P., [1995,eng] 50-3169
- Northern Sea Route reconnaissance study: a summary of ice-breaking technology. Sodhi, D.S., [1995,eng] 50-395
- Northern Sea Route: its development and evolving state of operations in the 1990s. Mulherin, N.D., [1996,eng] 50-4960
- Organic carbon storage in the soils of the Russian Federation. Orlov, D.S., et al. [1996,eng] 50-5085
- Paleogeoclimatology's grand unsolved problem. Grosval'd, M.G., et al. [1995,eng] 50-453
- Perceptions and relations between Russia and its northeast Asian neighbors. Simonsen, H., [1996,eng] 50-4453
- Permafrost microbiology. Gilichinski, D.A., et al. [1996,eng] 50-6372
- Pleistocene soil evolution in a Russian upland. Sycheva, S.A., [1995,eng] 50-2147
- Polar regions: a political geography. Chaturvedi, S., [1996,eng] 50-5926
- Problems in the development of the Arctic as a complex regional system. Arikainen, A.I., [1990,eng] 50-1666
- Proceedings of the First Conference of Russian Geocryologists, June 3-5, 1996, Moscow, Vol.1. Konferentsiia geokriologov Rossi, 1st, Moscow State University, June 3-5, 1996, [1996,eng] 50-6349
- Proceedings of the First Conference of Russian Geocryologists, June 3-5, 1996, Moscow, Vol.2. Konferentsiia geokriologov Rossi, 1st, Moscow State University, June 3-5, 1996, [1996,eng] 50-6808
- Rational methods of using and recultivating agricultural terrain in Northeastern Russia. Pugachev, A.A., et al. [1994,eng] 50-287
- Recent morphogenesis and problems in the geocryology of the Russian Arctic. Senkin, O.V., et al. [1995,eng] 50-5138
- Recultivating the ecosystems in the Russian Arctic. Zarubin, S.I., et al. [1994,eng] 50-289
- Regional geocryology (current status, trends and prospects for development). Mel'nikov, E.S., [1996,eng] 50-6366
- Regularities in the interaction of frozen strata with gas or gas hydrate beds. Romanovskii, N.N., et al. [1996,eng] 50-6391
- Relationship between surface and subsurface glaciation on the East European Plain in the Dnepr cold epoch. Nechaev, V.P., [1996,eng] 50-6357
- Relict sub-thermokarst of the periglacial region in the Quaternary glaciation. Molodykh, I.I., [1996,eng] 50-6356
- Russian Arctic straits under international law. Brubaker, D., [1996,eng] 50-4449
- Russian Arctic water under international law. Brubaker, D., [1996,eng] 50-4458

- Russian soil geography as indicated by a new detailed map. Andronikov, V.L., et al. [1995,eng] 50-3873
- Scenarios of changes in the cryolithozone in Russia under global climatic warming. Velichko, A.A., et al. [1996,eng] 50-6839
- Significance of the NSR for regional development in arctic areas of Russia. Granberg, A.G., [1996,eng] 50-4442
- Solifluction as a function of strength in thawing soil. Bondarenko, G.I., [1996,eng] 50-6401
- Solifluction in northern Eurasia: a review. Serebriannii, L.R., et al. [1993,eng] 50-833
- Some aspects of the protection of water-bog areas in European northeastern USSR. Mineev, I.U.N., [1991,eng] 50-1291
- Steel and steel reinforced concrete spans of modern bridges. Platonov, A.S., et al. [1995,eng] 50-3084
- Subaqueous cryological survey and mapping of the oceanic cryolithozone. Zhigarev, L.A., [1996,eng] 50-6363
- Submarine cryolithozone of Russian Arctic off-shore: problems of hydrocarbon recovery. Kulpin, L.G., et al. [1995,eng] 50-2961
- Surveying methods and geocryological databases in the Russian GMGS system. Dubrovina, V.A., et al. [1996,eng] 50-6856
- Technogenic dynamics of oil field terrain in the cryolithozone. Popkov, O.N., [1996,eng] 50-6852
- Transportation construction in the cryolithozone. Tsernant, A.A., [1995,eng] 50-3083
- Typification of USSR surface territory for the aerospace monitoring system. Apostolov, I.U.S., et al. [1992,eng] 50-3405
- Typization of elementary soil-cover structures occurring in European Russia. Simakova, M.S., [1995,eng] 50-3878
- Using satellite photography in geocryological studies in the cryolithozone. Gavrilov, A.V., et al. [1996,eng] 50-6857
- Wilderness quality mapping in the Euro-Arctic Barents region. Husby, E., et al. [1995,eng] 50-3171
- World of snow and ice. Kotliakov, V.M., [1994,eng] 50-1420
- Younger Dryas end moraines in Finland and NW Russia. Rainio, H., et al. [1995,eng] 50-514
- Russia—Aktru River**
- Energy characteristics of a mountain-glacier basin (in the example of the Aktru basin). Belova, N.I., [1973,eng] 50-425
- Organization and results of aerological observations in the Aktru mountain glacier basin. Slutskii, V.I., [1973,eng] 50-424
- Russia—Alay Mountains**
- Characteristics of the glaciation of the Alay mountain system. Suslov, V.F., [1973,eng] 50-427
- Russia—Aldanskoye Nagor'ye**
- Conditions for the formation of taliks in mountain regions and foothills. Zhelezniak, M.N., et al. [1996,eng] 50-6411
- Russia—Altay Mountains**
- Energy characteristics of a mountain-glacier basin (in the example of the Aktru basin). Belova, N.I., [1973,eng] 50-425
- Geocryological characteristics of the intermontane troughs in the Altay Mountains. Kuskovskii, V.S., [1996,eng] 50-6364
- On favorable and unfavorable properties of continental climates for glaciation. Tronov, M.V., [1973,eng] 50-422
- Organization and results of aerological observations in the Aktru mountain glacier basin. Slutskii, V.I., [1973,eng] 50-424
- Russia—Amga River**
- Dynamics of thermokarst relief on the Yukechinsk polygon. Bosikov, N.P., [1996,eng] 50-6400
- Russia—Amguema River**
- Computer database on anthropogenic arctic vegetation. Sumina, O.I., [1994,eng] 50-3173
- Dry tundra succession in Central Chukotka. Kucherov, I.B., [1995,eng] 50-3173
- Peat formation in the tundra of the Amguema valley and the Anadyr' lowland. Smirnov, I.P., [1992,eng] 50-3435
- Russia—Amur River**
- Tritium analysis of ground ice: results and prospects. Chizhov, A.B., et al. [1996,eng] 50-6385
- Russia—Anadyr'**
- Technogenic naled formation around the city of Anadyr'. Kotov, A.N., [1996,eng] 50-6854
- Russia—Anadyr' River**
- Peat formation in the tundra of the Amguema valley and the Anadyr' lowland. Smirnov, I.P., [1992,eng] 50-3435
- Russia—Apatity**
- Decomposition of soil surface lichens in mountain tundra and taiga. Parinkina, O.M., et al. [1995,eng] 50-3875
- Russia—Aral Sea**
- Nutrients in the Aral Sea in winter. Tsytarin, A.G., [1995,eng] 50-5481
- Russia—Archangel'sk**
- Diamond exploration in glaciated terrain: a Russian perspective. Golubev, I.U.K., [1995,eng] 50-1092
- Russia—Ardalin**
- Ardalin field flows despite weather, terrain. Britton, M.W., et al. [1995,eng] 50-4396
- Russia—Arkhangel'sk**
- Changes in the level of industrial air pollutants in peat bogs in the cryolithozone. Evseev, A.V., et al. [1996,eng] 50-6853
- Russia—Bambuyka**
- Geocryological conditions of the eastern Bambuyka basin. Znamenskii, E.N., [1983,eng] 50-316
- Russia—Baydaratskaya Bay**
- Geotechnical design of the Baydaratskaya Bay pipeline crossing. Oswell, J.M., et al. [1995,eng] 50-177
- Marine ice bottom gouging: some mechanisms and an approach to depth evaluation. Riabinin, V.E., et al. [1995,eng] 50-6314

Russia—Baykal Range

- Studying seacoasts in the cryolithozone. Sovershaev, V.A., [1996.rus] 50-6408
 Syngenetic layered ground ice in littoral marine deposits in Baydaratskaya Bay. Spesivtsev, V.I., [1996.rus] 50-6384
- Russia—Baykal Range**
 Differentiation of the composition and properties due to podzolization on the Baikal-Patom plateau. Kuz'min, V.A., [1995.eng] 50-3871
- Russia—Baykal, Lake**
 Development of cryogenic processes in the Baykal region. Leshchikov, F.N., [1996.rus] 50-6397
 Distribution of under-ice and ice phytoplankton in Lake Baikal. Zavoruev, V.V., et al., [1995.rus] 50-4106
 Paleoclimatic change from Lake Baikal sediments. Edgington, D.N., et al., [1996.eng] 50-6633
- Russia—Belyi Ostrov**
 Expedition to the Far North on the Yamal Peninsula in 1928-1929. Evladov, V.P., [1992.rus] 50-88
 Plant species diversity of Bely Island. Rebristiaia, O.V., [1995.eng] 50-3176
- Russia—Bennett Island**
 Background to Aleksandr Vasil'yevich Kolchak's expedition to Bennett Island, 1903. Barr, W., [1992.eng] 50-3432
 Expedition to Bennett Island in search of Baron Toll, 1903. Kolchak, A.V., [1992.eng] 50-3433
- Russia—Berelekh River**
 Evolution of soils in the basin of the middle reach of the Berelekh River (Upper, Kolyma River). Pavlov, B.A., et al., [1995.eng] 50-3877
- Russia—Bol'shaya Khadata River**
 Observations in a typical glacial basin of the Bol'shaya Khadata River in 1970-71. Gus'kov, A.S., [1972.rus] 50-529
 Representative glacier basins of the Bol'shaya Khadata River in 1969/70. Gus'kov, A.S., [1972.rus] 50-551
- Russia—Bol'shezemel'skaya Tundra**
 Determining the geocological stability of the cryolithozone. Osadchaja, G.G., et al., [1996.rus] 50-6851
 Evaluating the stability of natural complexes in tundra under technogenic disturbances. Demanov, V.E., et al., [1994.rus] 50-259
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 Pu, ¹³⁷Cs and excess ²¹⁰Pb in Russian arctic sediments. Baskaran, M., et al., [1996.eng] 50-5606
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- Changes in trace element speciation in Kola north surface waters during snow melt. Rodushkin, I.V., et al. [1995.eng] 50-4080
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 Sea ice and sediment export from the Laptev Sea fluvial lead during 1991/92 winter season. Dethleff, D., [1995.eng] 50-2073
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- 50-6409
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Russia—Moscow

- Hydrologic role of soils and ecological methods of regulating water resources. Voronkov, N.A., [1995.eng] 50-3879

Russia—Murmansk Coast

- Oceanographic conditions of Murman coastal biocoenoses. Boitsov, V.D., et al. [1995.eng] 50-4138

Russia—Murmansk

- Analysis of energy balance and technical progress in the non-ferrous metallurgy industry. Panin, A.P., et al. [1992.rus] 50-713
 Appearance of F2 and Es modes during oblique-incidence sounding in the high latitude ionosphere. Egorova, L.V., et al. [1991.rus] 50-2270
 Biogas as an alternative energy savings. Elokhin, V.R., [1992.rus] 50-705
 Characteristics of forecasting energy consumption in the mining industry. Kuznetsov, N.M., [1992.rus] 50-714
 Development of a man-machine system for hydroenergy studies on the Kola Peninsula. Marchuk, S.A., et al. [1992.rus] 50-708
 Diagnostics of the polar ionosphere using oblique and reverse-oblique sounding. Vovk, V.I.A., [1991.rus] 50-2264
 Effect of air pollution on soil invertebrates in the Lapland biosphere reserve. Giliazova, E.V., [1994.rus] 50-286
 Energy complexes in the Kola Peninsula based on small hydroelectric stations. Marchuk, S.A., et al. [1992.rus] 50-709
 Energy consumption in the Murmansk region and the effectiveness of its energy industry. Barannik, B.G., et al. [1992.rus] 50-706
 Environmental changes in the North under the influence of technogenic factors. Makarova, O.A., [1994.rus] 50-285
 Formation of the winter temperature-wind complex in the Kola Bay region. Zykova, G.G., [1992.rus] 50-1275
 Growing perennial grasses on dredging grounds in Southern Yakutia. Petrova, A.N., [1994.rus] 50-288
 Late Weichselian deglaciation in the Murman offshore. Samoilovich, I.U.G., et al. [1993.eng] 50-2210
 Organization of regional forecasting services using oblique sounding of the ionosphere. Khodzha-Akhmedov, Ch.L., [1991.rus] 50-2262
 Problems in energy savings and key trends in their solutions. Elokhin, V.R., et al. [1992.rus] 50-704
 Problems in the energy supply of the Murmansk region. Stepanov, I.R., ed, [1992.rus] 50-703
 Prospects for energy supply in industrial centers. Panin, A.P., [1992.rus] 50-712
 Prospects for the industrial use of wind power on the Kola Peninsula. Minin, V.A., et al. [1992.rus] 50-710
 Prospects for using solar energy in the Murmansk region. Minin, V.A., et al. [1992.rus] 50-711
 Reserves of heat supply systems. Salina, S.F., [1992.rus] 50-707

Russia—Nadym River

- Engineering-geocryological regionalization of the central regions of northwestern Siberia. Belopukhova, E.B., et al. [1985.rus] 50-241

Russia—Nenets Autonomous District

- Structure and dynamics of the plant cover of flat hummocky Siberian bogs. Kirpotin, S.N., et al. [1995.rus] 50-5674
- Russia—Nenets Autonomous District**
- Evaluating the anthropogenic transformation of tundra vegetation in the Nenets Autonomous District. Akul'shina, N.P., et al. [1994.rus] 50-257
- Russia—Nenets National District**
- Distribution of snow cover in built-up areas (e.g., Labytnangi). Lukichev, V.F. [1985.rus] 50-250
- Russia—Neva River**
- Characteristics of the spatial variability in the pollution of snow cover. Adamenko, V.N., et al. [1992.rus] 50-384
- Russia—Ney-To Lake**
- Conditions of the occurrence and structure of layered deposits of ground ice. Koreisha, M.M., et al. [1983.rus] 50-313
- Geochemical studies of layered ground ice and frozen rocks (from work on Ney-To Lake). Dubikov, G.I. [1983.rus] 50-312
- Russia—Noril'sk**
- Analyzing the composition of ecosystems of land in the Noril'sk industrial region. Igamberdiev, V.M., et al. [1994.rus] 50-277
- Construction effects on soil temperature in Noril'sk. Kadkina, E.L. [1990.rus] 50-1617
- Improving foundations in permafrost (in the example of the Noril'sk industrial region). Rastegaev, I.K., et al. [1989.rus] 50-2302
- Railway on permafrost in Siberia. Gravesen, H., et al. [1995.eng] 50-2960
- Studying arctic and subarctic ecosystems of impact regions using remote monitoring methods. Tereshenkov, O.M., et al. [1994.rus] 50-278
- Russia—Northern Dvina River**
- Natural vegetation complexes of the Northern Dvina River floodplain. Vekhov, N.V., [1995.eng] 50-4699
- Russia—Novaya Zemlya**
- Algae in terrestrial phytocenoses of the east European Arctic. Patova, E. [1995.eng] 50-3175
- Biogeochemistry of heavy metals in the Arctic. Dobrovolski, V.V. [1995.rus] 50-3971
- Contemporary status of bottom fauna in the Chernaya Bay (Novaya Zemlya Archipelago). Matishov, G.G., et al. [1996.eng] 50-4147
- Environment and ecosystems of Novaya Zemlya; the archipelago and shelf. Matishov, G.G., ed. [1995.rus] 50-5145
- Expedition of the Murmansk Marine Biology Institute to Franz Josef Land and Novaya Zemlya, 1991. Matishov, G.G., [1992.rus] 50-730
- Foraminifera in glaciomarine sediments of arctic fjords. Korsun, S.A., et al. [1995.eng] 50-939
- Gamma emitters in the Barents Sea area. Matishov, D.G., et al. [1993.eng] 50-2191
- Glacial flow systems in the zone of confluence between the Scandinavian and Novaya Zemlya ice sheets. Punkari, M., [1995.eng] 50-2130
- Modelling the release of radioactive waste in the Kara Sea. Timms, S.J., et al. [1995.eng] 50-5059
- Report on heavy metals. Mel'nikov, S.A., [1991.eng] 50-3419
- Russia—Ob River**
- Mesoplankton in the east Kara Sea and the Ob and Yenisey River estuaries. Vinogradov, M.E., et al. [1995.eng] 50-3539
- Russia—Ob' River**
- Analyzing the state of Urals tributaries of the Ob' River according to zoobenthos indicators. Sharapova, T.A., et al. [1994.rus] 50-283
- Preliminary results of studies of industrial and nuclear contaminants in the Ob and Yenisey rivers and the Kara Sea. Champ, M.A., et al. [1995.eng] 50-5060
- Preliminary study of tankers for year-round transportation of crude oil from Ob Gulf. Tsoi, L.G., et al. [1996.eng] 50-4461
- Recent morphogenesis and problems in the geocology of the Russian Arctic. Sen'kin, O.V., et al. [1995.rus] 50-5138
- Soil formation in floodplains in high latitudes. Gafurov, F.G., et al. [1992.rus] 50-22
- Russia—Oktabr'skaya Revoliutsiya Island**
- Anthropogenic effect on plant communities on Oktabr'skaya Revoliutsiya I. Gavrilov, M.V., [1991.rus] 50-1309
- Russia—Olenka River**
- Development of a man-machine system for hydroenergy studies on the Kola Peninsula. Marchuk, S.A., et al. [1992.rus] 50-708
- Russia—Omoloy River**
- Technogenic cryomorphogenesis and pollution of river estuaries in the Arctic basin. Grigor'ev, M.N., et al. [1991.rus] 50-1303
- Russia—Orenburg**
- Hydrologic role of soils and ecological methods of regulating water resources. Voronkov, N.A., [1995.eng] 50-3879
- Russia—Ossetia**
- Research work on the Kolka Glacier and other glaciers in Northern Ossetia in 1971. Rototae, K.P., et al. [1972.rus] 50-549
- Russia—Patom Plateau**
- Differentiation of the composition and properties due to podzolization on the Baikal-Patom plateau. Kuz'min, V.A., [1995.eng] 50-3871
- Russia—Paz River**
- Environmental changes in the North under the influence of technogenic factors. Makarova, O.A., [1994.rus] 50-285

Russia—Pechora Bay

- Analyzing water quality in the Pechora Bay of the Barents Sea. Kuznetsov, V.S., et al. [1991.rus] 50-1321
- Russia—Pechora River**
- Changes in the geocryological conditions of developed lower reaches and estuaries of northern rivers. Shvetsov, P.F., et al. [1991.rus] 50-1301
- Materials for a flora of the leafy mosses of the European part of the Northern Urals. Zheleznova, G.V., et al. [1995.eng] 50-3177
- Russia—Pechora Sea**
- 1995 perspective on global design ice loads. Kennedy, K.P. [1995.eng] 50-2937
- Arsenic pollutants in Pechora Sea sediments. Loring, D.H., et al. [1995.eng] 50-1829
- Meteorological support for navigation along the Northern Sea Route. Kondrat'ev, K.I.A., et al. [1994.eng] 50-648
- Multilaterals, horizontal wells could access remote Russian oil reserves. Hazen, T., [1996.eng] 50-6575
- Northern Gateway Oil Terminal Study: phase I. Vikhamar, T.K., et al. [1995.eng] 50-211
- Russia—Pevek**
- Integral indicator of atmosphere and ocean state in the eastern Arctic. Dmitriev, A.A., et al. [1990.rus] 50-335
- Russia—Poly River**
- Engineering-geocryological regionalization of the central regions of northwestern Siberia. Belopukhova, E.B., et al. [1985.rus] 50-241
- Russia—Primor'ye**
- Aerial component of the soil-formation substrate in the southern part of the Maritime Territory. Elpatievskii, P.V., et al. [1995.eng] 50-3876
- Russia—Punginsk**
- Engineering-geocryological environment and changes in natural conditions in Punginsk. Shamanova, I.I., et al. [1985.rus] 50-247
- Russia—Pur River**
- Structure and dynamics of the plant cover of flat hummocky Siberian bogs. Kirpotin, S.N., et al. [1995.rus] 50-5674
- Russia—Sakha**
- Ice-crystal fogs of central Sakha. Osipov, D.A., [1995.eng] 50-4702
- Russia—Sakhalin Island**
- Exploration and development of oil and gas field on the shelf of Sakhalin. Bogdanichikov, S.M., et al. [1995.eng] 50-168
- Ice drift and oil spill hazard off Sakhalin. Kalinin, E.N., et al. [1996.eng] 50-5900
- Ice studies on the northern Sakhalin offshore. Truskov, P.A., et al. [1995.eng] 50-6316
- Seasonal variability of sea ice sizes and thickness on the northern Sakhalin shelf. Polomoshnov, A.M., et al. [1995.eng] 50-189
- Seismic activity of landfast ice. Nikitin, V.A., et al. [1995.eng] 50-188
- Russia—Sakunak River**
- Effect of seasonal freezing on the formation of naleds in northern Transbaikalia. Beliaikov, A.E., [1993.rus] 50-115
- Russia—Severnaya Zemlya**
- Anthropogenic effect on plant communities on Oktabr'skaya Revoliutsiya I. Gavrilov, M.V., [1991.rus] 50-1309
- Command organization on the Severnaya Zemlya archipelago. Petrov, V.N., et al. [1991.rus] 50-1292
- Russian-German Taymyr Expedition, 1994. Siegert, C., ed. et al. [1995.eng] 50-1549
- Technogenic relief on Novosibirsk Islands and Severnaya Zemlya. Bol'shianov, D.I.A., et al. [1991.rus] 50-1305
- Russia—Siberia**
- "Ice Mountain"—a Pleistocene relict in the north of West Siberia. Rajamäe, R., et al. [1989.eng] 50-2897
- Airborne measurements of atmospheric methane over oil fields in western Siberia. Tohjima, Y., et al. [1996.eng] 50-6509
- Airborne studies of submicron aerosol in the troposphere over West Siberia. Panchenko, M.V., et al. [1996.eng] 50-5281
- Aircraft measurements of the stable carbon isotopic ratio of atmospheric methane over Siberia. Sugawara, S., et al. [1996.eng] 50-6051
- Analyzing frozen soil stability in Siberian oil and gas production regions. Tumel', N.V., et al. [1994.rus] 50-262
- Assessing effects on cryogenic terrain. Zotova, L.I., et al. [1996.rus] 50-6846
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995.eng] 50-6322
- Biological productivity of Siberian ecosystems. Bazilevich, N.I., [1995.eng] 50-2713
- Biota of the western Siberian Subarctic as an indicator of the ecological-geochemical situation in the region. Savchenko, N.V., [1994.rus] 50-298
- Calculating thermal and water resources of small river catchment areas in Siberia: part 1. Karnatsevich, I.V., [1989.rus] 50-133
- Calculating thermal and water resources of small river catchment areas in Siberia: part 2. Karnatsevich, I.V., [1991.rus] 50-132
- Chemical characterization of individual aerosol particles in central Siberia. Van Malderen, H., et al. [1996.eng] 50-4966
- Climate of western Siberia: past and future. Bukreeva, G.F., et al. [1995.eng] 50-6583
- Comparison of tundra-steppe development in Beringia. Gitterman, R.E., et al. [1982.eng] 50-3371
- Controlling recultivated successions. Teteruk, B.I.U., [1994.rus] 50-300

- Cryolithozone of Western Siberia (thermal condition, database and mapping). An, V.V., et al. [1996.rus] 50-6359
- Development of leading technology in the "MOSTROI-2" (AOOT "SIBMOST") trust. Karaulov, M.E., [1995.rus] 50-3079
- Dusty deposits (loesses) of the contemporary arctic zone. Wojtanowicz, J., [1993.eng] 50-2214
- Ecologic-genetic analysis of tundra-steppe soils in northeastern Siberia. Cherniakhovskii, D.A., [1996.eng] 50-5447
- Ecological problems in the cryogenic-hydrogeological conditions in northwestern Siberia. Petrova, R.G., et al. [1996.rus] 50-6847
- Ecologization of technological processes in oil and gas construction in arctic regions. Shishov, V.N., et al. [1990.rus] 50-1606
- Effect of cryospheric cooling on the distribution of oil and gas in Siberian deposits. Bol'shakov, I.U.A., et al. [1989.rus] 50-2259
- Effect of the laying of gas pipelines on the geosystem of the cryolithozone in Western Siberia. Moskalenko, N.G., [1996.rus] 50-6849
- Engineering-geocryological environment and changes in natural conditions in Punginsk. Shamanova, I.I., et al. [1985.rus] 50-247
- Engineering-geocryological regionalization of the central regions of northwestern Siberia. Belopukhova, E.B., et al. [1985.rus] 50-241
- Environmental protection measures for the West Siberian Arctic and Subarctic. Chistov, S.V., [1991.rus] 50-1298
- Estimating changes in the temperature regime and condition of rocks based on the analysis of climatic data. Ershov, E.D., et al. [1996.rus] 50-6387
- Evolution of lowland landscapes in northeastern Asia during Late Quaternary time. Tomirdiario, S.V., [1982.eng] 50-3370
- Experiment in compiling a review map of anthropogenic degradation of the high-latitude areas of Russia. Serebrianniy, L.R., et al. [1992.eng] 50-3434
- Experimental study of the thermal regime of soils in the arctic regions of Western Siberia. Pavlov, A.V., et al. [1996.rus] 50-6388
- Exploration for hydrocarbon deposits and engineering preparation of oil and gas provinces. Akhmetshin, A.A., et al. [1996.rus] 50-6371
- Extreme fire seasons in the forests of Evenkia. Ivanova, G.A., [1995.eng] 50-4700
- Flagship of bridge building in Siberia. Vinogradov, S.N., et al. [1995.rus] 50-3080
- Forecasting settlement during the thawing of frozen ground in Ural. Evushenko, S.I., et al. [1985.rus] 50-246
- Frozen ground landscapes of Yakutia: explanatory notes to a map. Fedorov, A.N., et al. [1989.rus] 50-5005
- Geographical patterns in the biological productivity of soil-and-vegetation associations. Bazilevich, N.I., [1995.eng] 50-3872
- Heat flow in the cryolithozone in relation to subsurface heat flow. Deviatkin, V.N., et al. [1990.rus] 50-1626
- Heat flow in the lithosphere in the western Siberian platform. Deviatkin, V.N., et al. [1996.rus] 50-6392
- Holocene climatic, vegetation and pollen data of Siberia adjacent to the Laptev Sea. Naidina, O.D., [1995.eng] 50-2091
- Hydromechanization of earthwork under the conditions in the Far East and Siberia. Mel'nikov, I.T., [1995.rus] 50-3077
- Ice-wedge formation in northern Asia during the Holocene. Vasil'chuk, I.U.K., et al. [1996.eng] 50-6705
- Initial assessment of multi-scale measures of CO₂ and H₂O flux in the Siberian taiga. Hollinger, D.Y., et al. [1995.eng] 50-3810
- Intralandscapes diversity of the flora of the Tazovsky Peninsula. Khitun, O.V., [1995.eng] 50-3172
- Is there any real evidence for a huge shelf ice sheet in East Siberia? Sher, A., [1995.eng] 50-499
- Lake surface pollen sediments across the Siberian tree line. Clayden, S.L., et al. [1996.eng] 50-6746
- Late Quaternary vegetation variations in western Beringia. Anderson, P.M., et al. [1996.eng] 50-4341
- Laying of oil industry pipelines in permafrost conditions in Western Siberia. Karavaev, S.S., et al. [1989.rus] 50-2249
- Mesomorphic soil formation in the cryogenic taiga semihumid sector of central Siberia. Ershov, I.U.I., [1995.eng] 50-2146
- Methane flux along a Siberian tundra transect. Christensen, T.R., et al. [1995.eng] 50-1334
- Microsporogenesis of the Siberian larch in western Siberian Zapolyar'e. Rozhdestvenskii, I.U.F., et al. [1995.eng] 50-3966
- Mode of degradation of Pleistocene permafrost in West Siberia. Astakhov, V.I., [1995.eng] 50-507
- Model for calculating the heat transfer coefficient for sedimentary rocks. Gavril'ev, R.I., [1996.rus] 50-6818
- Naleds in the Suntar-Khayata Mountains. Koreisha, M.M., [1972.rus] 50-552
- New data on current and ancient glaciation in the Suntar-Khayata Mountains. Vinogradov, O.N., et al. [1972.rus] 50-536
- Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st, Burg Wartenstein, Austria, June 8-17, 1979, [1982.eng] 50-3369
- Paleogeographical conditions of the degradation of Pleistocene frozen ground. Astakhov, V.I., [1990.rus] 50-1624
- Perennially frozen rock as a site for burying industrial wastes. Borisov, V.N., et al. [1996.rus] 50-6824

Russia—Siberia

Russia—Sibirskie Islands

- Photo-registration of pre- and post-breakdown situations in oil pipelines in Siberia. Eliseev, I.U.B., [1996.rus] 50-6858
- Piles and pile foundations under conditions of Siberia. Solov'ev, I.U.I., ed. [1994.rus] 50-5141
- Plant communities of the Bol'shoi Chivyrkui River Valley, Barguzinskij Range, East Siberia. Chytrý, M., et al. [1995.eng] 50-4950
- Probability model for the structure of frozen strata in Central and Eastern Siberia. Iakupov, V.S., et al. [1996.rus] 50-6370
- Problematic ice sheets. Rutter, N.W., [1995.eng] 50-498
- Problems in protecting the geological environment; in the example of Eastern Siberia. Pinneker, E.V., ed. [1993.rus] 50-91
- Record low Siberian ozone levels. Bojkov, R.D., et al. [1995.eng] 50-1212
- Regional forecasting of cryogenic processes and ecology of the cryolithozone. Grechishchev, S.E., [1990.rus] 50-1598
- Regional system of protected natural areas in the north of Western Siberia. Pokrovskaja, I.V., [1995.eng] 50-3170
- Relics of the xerophyte vegetation of Beringia in northeastern Asia. Urtsev, B.A., [1982.eng] 50-3376
- Revegetation trials in Western Siberia: the growth of a cooperative effort. Younkun, W., et al. [1994.eng] 50-306
- Review of Late Cretaceous floras and climates of arctic Russia. Herman, A.B., [1994.eng] 50-902
- Science of the Siberian region; a discussion in the Presidium of the Russian Academy of Sciences. Mavrina, T.V., ed. [1995.rus] 50-4200
- Scientific basis for the construction of railroads. Pereselenkov, G.S., [1995.rus] 50-3082
- Searching for ways of stimulating oil biodegradation in soil. Kazakova, E.N., et al. [1994.rus] 50-281
- Seasonal solute movement in continuous permafrost. Boike, J., et al. [1995.eng] 50-2093
- Seismic prospecting for oil and gas in regions with cryolithozone development. Bevezko, I.U.P., [1989.rus] 50-2260
- Siberia and the metro. Safronov, E.A., [1995.rus] 50-3087
- Siberian company starts up modular refinery. [1996.eng] 50-5575
- Siberian future climate predictions. Volkova, V.S., et al. [1995.eng] 50-6584
- Siberian tundra CO₂ flux as a source of seasonal CO₂ variations. Zimov, S.A., et al. [1996.eng] 50-5868
- Snow cover in the Siberian forest-steppe. Zykov, I.V., [1965.eng] 50-3424
- Structure and dynamics of the plant cover of flat hummocky Siberian bogs. Kirpotin, S.N., et al. [1995.rus] 50-5674
- Studying seacoasts in the cryolithozone. Sovershaev, V.A., [1996.rus] 50-6408
- Taimyr Peninsula vegetation response to climatic changes. Koshekarova, V.L., [1995.eng] 50-4701
- Theoretical model of the transfer of radionuclides (the accident at the Siberian chemical plant). Belov, P.N., [1995.rus] 50-3774
- Thickness and structural characteristics of the cryolithozone in northwest Siberia. Agalakov, S.E., [1996.rus] 50-6358
- Tracing radioactive contamination in the Siberian Arctic. Sayles, F.L., et al. [1996.eng] 50-6668
- Tritium analysis of ground ice: results and prospects. Chizhov, A.B., et al. [1996.rus] 50-6385
- Variability of arctic sea ice along the Northern Sea Route. Ono, N., [1996.eng] 50-4477
- West Siberian oil and the northern sea route: current situation and future potential. Kriukov, V., et al. [1995.eng] 50-6104
- West Siberian Quaternary stratigraphy. Arkhipov, S.A., et al. [1994.eng] 50-1210
- Russia—Sibirskie Islands**
- Technogenic relief on Novosibirsk Islands and Severnaya Zemlya. Bol'shianov, D.I.A., et al. [1991.rus] 50-1305
- Russia—St. Petersburg**
- Evidence of a 22-year cycle in air temperature. Ol', A.I., et al. [1991.rus] 50-1639
- Russia—Suntar-Khayata Mountains**
- Naleds in the Suntar-Khayata Mountains. Koreisha, M.M., [1972.rus] 50-552
- New data on current and ancient glaciation in the Suntar-Khayata Mountains. Vinogradov, O.N., et al. [1972.rus] 50-536
- Russia—Taimyr Peninsula**
- Tardigrades of the Taimyr peninsula with descriptions of two new species. Biserov, V.I., [1996.eng] 50-5294
- Russia—Taymyr Peninsula**
- Achieving protection of the coastal belt of the Taymyr Peninsula and nearby islands. Chernous, V.F., [1991.rus] 50-1293
- Paleogeographical studies of permafrost in the eastern Taymyr lowland. Siegert, C., et al. [1995.eng] 50-2092
- Quaternary geology and cryogenic structure of Taymyr. Derevianin, A.I.U., et al. [1996.rus] 50-6375
- Russian-German Taymyr Expedition, 1994. Siegert, C., ed. [1995.eng] 50-1549
- Tritium analysis of ground ice: results and prospects. Chizhov, A.B., et al. [1996.rus] 50-6385
- Russia—Tazov Peninsula**
- Engineering-geocryological regionalization of Tazov Peninsula. Belopukhova, E.B., et al. [1983.rus] 50-308
- Russia—Tazovskiy Peninsula**
- Intralandscapes diversity of the flora of the Tazovsky Peninsula. Khuton, O.V., [1995.eng] 50-3172
- Russia—Tien Shan**
- Holocene glacier variations in central Asia. Savoskul, O.S., et al. [1996.eng] 50-4372

Russia—Tien Shan

- Avalanches and their role in nourishment of the Inyl'chek Glacier. Ziabkin, V.V., [1972.rus] 50-553
- Characteristics of runoff formation at the Kirgizskiy Alatau, Tien Shan. Aizen, V.B., et al. [1995.eng] 50-2435
- Characteristics of the seasonal freezing of rocks in the Tien Shan. Severskii, E.V., [1996.rus] 50-6368
- Climate, snow cover, glaciers, and runoff in the Tien Shan, central Asia. Aizen, V.B., et al. [1995.eng] 50-2538
- Common features of the Upper Quaternary and historical glaciation in the Caucasus and Tien Shan. Gerasimov, V.A., [1972.rus] 50-543
- Conditions for formation and variability of flood flow of rivers in northern Tien Shan. Sumarokova, V.V., [1973.rus] 50-435
- Relationship between temperature and glacier melting with middle troposphere temperature. Volkova, M.V., et al. [1973.rus] 50-433
- Tien Shan: trends of changes in the geocryological conditions. Gorbunov, A.P., et al. [1996.rus] 50-6841
- Vertical temperature gradient of the air in the high mountains of Central Asia. Davidovich, N.V., [1972.rus] 50-534
- Russia—Tomsk**
- Atmospheric aerosol in Tomsk. Zuev, V.V., [1996.eng] 50-5285
- Russia—Transbaikai**
- Characteristics of working in permafrost in Transbaikai. Kozlov, V.A., et al. [1993.rus] 50-111
- Dependence of rock stream development on geomorphological-geological features. Mal'chikova, I.I.U., [1993.rus] 50-117
- Effect of cryogenic processes on the construction and operation of railroads in Transbaikai. Shesterneva, M.K., [1993.rus] 50-112
- Effect of seasonal freezing on the formation of naleds in northern Transbaikai. Beliaikov, A.E., [1993.rus] 50-115
- Engineering-geocryological problems in Transbaikai; collected scientific papers. Shesternev, D.M., ed. [1993.rus] 50-107
- Frost heave susceptibility in Transbaikai. Sal'nikov, P.I., [1996.rus] 50-6399
- Geocryological conditions of Transbaikai and engineering-geocryological problems. Shesternev, D.M., et al. [1993.rus] 50-108
- High-temperature permafrost as building foundation. Sal'nikov, P.I., [1993.rus] 50-109
- Ice accumulation in rock streams of northern Transbaikai. Verkhuturov, A.G., [1993.rus] 50-118
- Observations of the mobility of rock streams in the Udokan Range. Romanovskii, N.N., et al. [1996.rus] 50-6403
- On the granulometric composition of coarse detrital rocks. Shesternev, D.M., [1993.rus] 50-120
- Prospects for using solar energy technology in Transbaikai. Zhelezniak, I.I., et al. [1993.rus] 50-110
- Some examples of stationary investigations of cryogenic processes in Transbaikai. Poznanin, V.L., et al. [1993.rus] 50-114
- Russia—Tuva**
- Glacier fluctuations in the Mongun-Taiga Mountains of Tuva. Xie, Z.C., et al. [1995.chi] 50-5617
- Russia—Udokan Range**
- Observations of the mobility of rock streams in the Udokan Range. Romanovskii, N.N., et al. [1996.rus] 50-6403
- Regularities in the changes of composition of coarse detrital rock. Druzhinin, A.S., et al. [1993.rus] 50-121
- Russia—Ural Mountains**
- Algae in terrestrial phytocenoses of the east European Arctic. Patova, E., [1995.eng] 50-3175
- CO₂ exchange in some vascular plants inhabiting the polar Urals. Gerasimenko, T.V., et al. [1996.eng] 50-6757
- Compositional variation of laurite in an alpine ultramafic complex in the Polar Urals. Anikina, E.V., et al. [1995.rus] 50-4108
- Estimation of biomass and other characteristics of boreal forest. Hime, T., et al. [1994.eng] 50-3228
- Glaciers and climate of the mountains of the former USSR during the Neoglaciation. Seredniannyi, L.R., et al. [1996.eng] 50-6552
- Heat and moisture supply of natural biogeocenoses in the Northern, Subpolar and Polar Urals. Belonenko, G.V., et al. [1994.rus] 50-269
- Materials for a flora of the leafy mosses of the European part of the Northern Urals. Zheleznova, G.V., et al. [1995.eng] 50-3177
- Meadow ecology in the polar Urals. Russia. Gorchakovskii, P.L., et al. [1996.eng] 50-5482
- Observations in a typical glacial basin of the Bol'shaya Khadata River in 1970-71. Gus'kov, A.S., [1972.rus] 50-529
- Phenotype and chromosome variability in larch in Ural forest ecosystems. Puteinikhin, V.P., et al. [1994.rus] 50-270
- Population-genetic differentiation in mountain Sukaczew larch. Timerianov, A.Sh., et al. [1994.rus] 50-271
- Preliminary mycobiota (Aphyllophorales, Fungi) of timberline forests in the West Siberian plateau. Kotiranta, H., [1995.eng] 50-3168
- Representative glacier basins of the Bol'shaya Khadata River in 1969-70. Gus'kov, A.S., [1972.rus] 50-551
- Russia—Urgal**
- Forecasting settlement during the thawing of frozen ground in Urgal. Evutshenko, S.I., et al. [1985.rus] 50-246
- Russia—Usinsk**
- Ecologic-geographical basis for monitoring technogenic oil and gas polluted territories in the Usinsk region. Evdokimova, T.V., et al. [1994.rus] 50-260

Russia—Ussuriyskiy Bay

- Radioecological studies of radioactive contaminants in Ussuriy Bay, Sea of Japan. Soifer, V.N., [1995.eng] 50-5061
- Russia—Vyngach**
- Algae in terrestrial phytocenoses of the east European Arctic. Patova, E., [1995.eng] 50-3175
- Russia—Vilyuy River**
- Cryogenic structure of surface deposits in Central Yakutia. Konchenko, L.A., [1996.rus] 50-6378
- Impermeable and permeable zones in permafrost. Olovina, B.A., [1996.eng] 50-6486
- Russia—Vitim River**
- Formation characteristics of the thermal regime of rocks in the Vitim River. Leibman, M.O., [1985.rus] 50-248
- Russia—Vladivostok**
- Comparative study of bottom sediment pollution in Lianyungang and Vladivostok harbors. Tkalin, A.V., [1995.eng] 50-5063
- Russia—Vologograd**
- Hydrologic role of soils and ecological methods of regulating water resources. Voronkov, N.A., [1995.eng] 50-3879
- Russia—Vorkuta**
- Changes in the level of industrial air pollutants in peat bogs in the cryolithozone. Evseev, A.V., et al. [1996.rus] 50-6853
- Monitoring sown meadows in eastern European tundra. Kotlina, N.S., et al. [1994.rus] 50-292
- Russia—Wrangel Island**
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995.eng] 50-6322
- Cryolithological structure of Quaternary deposits on Wrangel Island. Kotov, A.N., et al. [1996.rus] 50-6379
- Mammoth extinction: two continents and Wrangel Island. Martin, P.S., et al. [1995.eng] 50-650
- Parent materials of Wrangel Island. Oganessian, A.Sh., et al. [1995.eng] 50-1052
- Radiocarbon dating evidence for mammoths on Wrangel Island, Arctic Ocean, until 2000 B.C. Vartanian, S.L., et al. [1995.eng] 50-649
- Russia—Yakutia**
- Analysis of moisture transfer in the aeration zone of the cryolithosphere. Shepelev, V.V., [1996.rus] 50-6817
- Atmospheric carbon emission from North Asian lakes: a factor of global significance. Semiletov, I.P., et al. [1996.eng] 50-5609
- Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996.rus] 50-6382
- Creation of a geocryology database for Yakutia. Balobaev, V.T., et al. [1996.rus] 50-6361
- Cryogenic state of soil in the cryolithozone (Yakutia). Gavril'ev, P.P., et al. [1996.rus] 50-6844
- Cryogenic structure of surface deposits in Central Yakutia. Konchenko, L.A., [1996.rus] 50-6378
- Developing methods for forecasting seismic effects under cryolithozone conditions. Dzhuirik, V.I., et al. [1996.rus] 50-6834
- Dynamics of thermokarst relief on the Yukechinsk polygon. Bosikov, N.P., [1996.rus] 50-6400
- Ecological protection in mining of minerals. Tsygankov, A.V., et al. [1992.rus] 50-818
- Effect of cryopegs on the temperature and salinity of surrounding permafrost. Anisimova, N.P., [1996.rus] 50-6390
- Effect of perennial rock freezing on the water saturation of coal basins. Elisafenko, T.N., [1985.rus] 50-249
- Effect of technogenic disturbances on the thermal regime of soils in Central Yakutia. Skriabin, P.N., et al. [1996.rus] 50-6394
- Engineering-ecology safety during the operation of oil and gas facilities. Konstantinov, I.P., [1996.rus] 50-6845
- Filtration permeability of permafrost. Olovina, B.A., [1993.rus] 50-89
- Forecasting the composition of post-lacustrine meadows in the Yakutsk Arctic. Bosikov, N.P., [1991.rus] 50-1310
- Formation of taliks and high temperature frozen rocks under conditions of Central Yakutia. Shender, N.I., et al. [1996.rus] 50-6412
- Formation of the cryo-ecological segment in Central Yakutia. Fedorov, A.N., [1996.rus] 50-6843
- Fossil burrows of mammals in the loess-ice deposits of the Kolyma-Indigirka Lowland. Gubin, S.V., et al. [1996.eng] 50-4146
- Frozen ground landscapes of Yakutia: explanatory notes to a map. Fedorov, A.N., et al. [1989.rus] 50-5005
- Geochemistry of organic matter in oil- and gas-bearing sediments in Western Yakutia. Bodunov, E.I., ed. [1984.rus] 50-5006
- Growing perennial grasses on dredging grounds in Southern Yakutia. Petrova, A.N., [1994.rus] 50-288
- Ice complex and greenhouse gases. Kunitski, V.V., [1996.rus] 50-6380
- Late Pleistocene soil formation on coastal lowlands of northern Yakutia. Gubin, S.V., [1995.eng] 50-963
- Method of preparing a geocryological foundation for hydrogeological mapping. Lomovtseva, N.S., [1996.rus] 50-6365
- Mining engineering reclamation of disturbed land under conditions in the North. Aleksandrov, I.N., et al. [1992.rus] 50-817
- Organic compounds in a permafrost sediment core from Siberia. Matsumoto, G.I., et al. [1995.eng] 50-3844
- Plan for a regional ecological atlas of the cryolithozone (in the example of Yakutia). Alekseev, V.R., et al. [1996.rus] 50-6842

Russia—Yakutsk

- Preventing the pollution of indigenous streams during open pit placer mining. Tsygankov, A.V., et al. [1990.rus] 50-1604
- Problems in geocryological studies in northern Yakutia. Liubimov, A.S., et al. [1991.rus] 50-1304
- Structure of cryogenic strata in the Arctic and the history of their development. Konishchev, V.N., [1990.rus] 50-1623
- Tritium analysis of ground ice: results and prospects. Chizhov, A.B., et al. [1996.rus] 50-6385
- Vegetation in industrial northeastern Yakutia and its recultivation. Mironova, S.I., [1994.rus] 50-266
- Russia—Yakutsk**
- Assembly for studying physical processes during drilling. Antipin, I.N., et al. [1992.rus] 50-796
- Russia—Yamal Peninsula**
- Analyzing the composition of tundra shrubs in Central Yamal. Arefev, S.P., [1994.rus] 50-265
- Biological rehabilitation of disturbed lands in the arctic gas-producing regions. Masalkin, S.D., [1991.eng] 50-1767
- Characteristics of the gas content of permafrost strata in the Bovanenka gas condensate field. Chuvilin, E.M., et al. [1996.rus] 50-6386
- Compressibility of saline frozen ground on the Yamal Peninsula. Morkovkin, E.I.U., et al. [1989.rus] 50-2307
- Conditions of the occurrence and structure of layered deposits of ground ice. Koreisha, M.M., et al. [1983.rus] 50-313
- Corrosive aggressiveness of taliks beneath lakes with regard to steel (in the example of Yamal soil). Zykov, I.U.D., et al. [1995.rus] 50-2513
- Cryogenic landslides on the Yamal Peninsula, Russia: preliminary observations. Leibman, M.O., [1996.eng] 50-6703
- Deformation of frozen sandy soils with a cloddy structure during thawing. Shevchenko, L.V., et al. [1996.rus] 50-6832
- Detecting layered ground ice using a high-precision ground-based magnetic survey. Matushkin, B.A., [1985.rus] 50-243
- Distribution characteristics of taliks beneath lakes in the Bovanenka region. Anan'eva, G.V., et al. [1996.rus] 50-6360
- Ecological aspects of the development of flat-polygonal bogs of Yamal. Kanev, V.V., et al. [1996.eng] 50-6580
- Ecological-hygienic aspects of the development of the Bovanenka gas condensate field. Kvashnina, S.I., [1994.rus] 50-301
- Engineering geological characteristics of solifluctive soil (Yamal Peninsula). Platov, N.A., et al. [1985.rus] 50-244
- Engineering-geocryological conditions of the Neytinsk structure. Danko, V.K., et al. [1983.rus] 50-310
- Expedition to the Far North on the Yamal Peninsula in 1928-1929. Evladov, V.P., [1992.rus] 50-88
- Experimental studies on the resistance of frozen ground to maximum thermo-erosion washout. Pendin, V.V., et al. [1996.rus] 50-6407
- Forecast of rain erosion of tundra soils on the Yamal Peninsula. Grigor'ev, V.I.A., et al. [1996.eng] 50-5448
- Geo-ecological problems of the oil and gas complex in Yamal. Melnikov, E.S., et al. [1990.rus] 50-1599
- Geochemical studies of layered ground ice and frozen rocks (from work on Ney-To Lake). Dubikov, G.I., [1983.rus] 50-312
- Geophysical and laboratory methods for studying the mechanical characteristics of permafrost. Mamzelev, A.P., [1996.rus] 50-6833
- Mapping the territory of the Bovanenka gas condensate field. Streletskaia, I.D., et al. [1996.rus] 50-6369
- Methane in frozen rocks and some aspects of forecasting its emission. Rivkin, F.M., [1996.rus] 50-6383
- Method for calculating the anti-erosion stability of tundra soils on the Yamal Peninsula and its basis. Grigor'ev, V.I.A., et al. [1995.rus] 50-4102
- Migration of chemical elements and ions in the seasonal thaw layer and upper layer of perennially frozen rocks. Leibman, M.O., et al. [1996.rus] 50-6848
- Morphological characteristics of large deposits of ground ice in central Yamal. Parmuzin, S.I.U., et al. [1983.rus] 50-311
- New results from studies of layered ground ice in Yamal. Dubikov, G.I., et al. [1985.rus] 50-242
- Oil and gas development challenges in the Russian Arctic. Ruzhanskii, V.E., et al. [1996.eng] 50-6432
- Paleogeographic conditions of continental syncretogenesis on Central Yamal. Bolikhovskaia, N.S., et al. [1996.rus] 50-6351
- Phyto-recultivation of technologically disturbed lands. Valeeva, E.I., [1994.rus] 50-293
- Project of gas liquefaction at the Yamal Peninsula: the problem and solution. Gritsenko, A.I., et al. [1996.eng] 50-4488
- Questions in engineering-geological mapping of routes of linear structures. Demidiuk, L.M., et al. [1983.rus] 50-309
- Reaction of plant communities to technogenic disturbances in tundra in Yamal. Khitun, O.V., et al. [1994.rus] 50-258
- Regionalization of territories according to degree of risk to cryogenic processes. Kuznetsova, I.L., et al. [1996.rus] 50-6396
- Results of joint Russian-Canadian geophysical studies of permafrost on the Yamal Peninsula. Burns, R.A., et al. [1995.rus] 50-2507
- Salinity of Quaternary deposits in the western Yamal Peninsula. Lakhtina, O.V., et al. [1983.rus] 50-314
- Studying seacoasts in the cryolithozone. Sovershaev, V.A., [1996.rus] 50-6408
- Thickness and structural characteristics of the cryolithozone in northwest Siberia. Agalakov, S.E., [1996.rus] 50-6358
- What the biological recultivation of sandy quarries on Yamal has shown. Gromik, V.D., [1994.rus] 50-295

Russia—Yamburg

- Environmental research project for Yamburg gas fields. Chlenov, A.V., [1991.eng] 50-1766
- Forecasting gully erosion in Yamburg. Skubitskaia, M.G., [1996.rus] 50-6406
- Numerical analysis of vegetation cover structure and anthropogenic characteristics of deposits. Gritsan, O.E., et al. [1990.rus] 50-1616
- Russia—Yana River**
- Technogenic cryomorphogenesis and pollution of river estuaries in the Arctic basin. Grigor'ev, M.N., et al. [1991.rus] 50-1303
- Russia—Yenisey River**
- Assessing effects on cryogenic terrain. Zotova, L.I., et al. [1996.rus] 50-6846
- Paleographic conditions for the formation of ice in homogeneous age varved clays. Karpov, E.G., et al. [1996.rus] 50-6377
- Preliminary results of studies of industrial and nuclear contaminants in the Ob and Yenisey rivers and the Kara Sea. Champ, M.A., et al. [1995.eng] 50-5060
- Safety**
- 1996 avalanche cycle of intermountain West. Tremper, B., [1996.eng] 50-4761
- Aircraft deicing. Roed, A., [1992.eng] 50-2983
- Aircraft icing handbook. [1993.eng] 50-5064
- Alaska pipeline oil spill contingency plan. Aliyeska Pipeline Service Company, Anchorage, AK, [1991.eng] 50-850
- Analysis of winter skid accidents in Sapporo City and Asahikawa City. Nagai, T., et al. [1995.jp] 50-6792
- Analysis of winter skid accidents in Sapporo City. Nagai, T., et al. [1994.jp] 50-2827
- Arctic platform evacuation vehicle. [1990.eng] 50-5588
- ATC and the icing dilemma. Glines, C.V., [1992.eng] 50-2982
- Australian ice airstrip is a failure. Handmer, D., et al. [1990.eng] 50-3841
- Avalanche accidents this season. [1996.eng] 50-4762
- Avalanche Balloon System (ABS): for or against? Sivardiere, F., et al. [1995.fre] 50-2586
- Avalanche book. Armstrong, B.R., et al. [1992.eng] 50-863
- Avalanche bulletin and computer aided communication: preliminary results. Bolognesi, R., et al. [1995.fre] 50-4656
- Avalanche warning flags: what do you think? Sivardiere, F., [1995.fre] 50-2593
- Avalanches: foreseeable or unforeseeable. Lambert, R., [1995.fre] 50-4668
- Aviation weather: forces to be reckoned with. Taylor, R.L., [1991.eng] 50-6498
- Behavior of vehicles driven in blowing snow. Fukuzawa, Y., et al. [1994.jp] 50-2826
- Better visibility needed in snowplowing. [1995.eng] 50-3855
- Beware carb ice. [1992.eng] 50-3799
- Carburetor ice gremlin? [1990.eng] 50-3573
- Casualties due to snow and ice phenomena. Ikarashi, T., [1995.jp] 50-605
- Cold weather operations. [1983.eng] 50-3792
- Confirming airworthiness prior to takeoff in icing conditions—pilot options. Eloranta, J.T., [1992.eng] 50-3798
- Congressional hearing on programs related to aircraft deicing. 1992, U.S. Congress. House. Committee on Public Works and Transportation, [1992.eng] 50-6204
- Control of avalanche risk in the Braulio Valley. Campana, M., et al. [1995.ita] 50-2600
- Council of Europe's Open Partial Agreement on Major Hazards. EUR-OPA. Tondre, F., [1995.fre] 50-4645
- Damage to equipment and structures in the North. Novopashin, M.D., et al. [1993.rus] 50-465
- Development of road traffic information system responsive to driver telephone requests. Horikawa, T., et al. [1993.jp] 50-2838
- Ecological protection in mining of minerals. Tsygankov, A.V., et al. [1992.rus] 50-818
- Effect of the popularization of studless tires on traffic conditions. Horita, N., et al. [1995.jp] 50-6789
- Effects of widespread use of studless tire on traffic conditions. Horita, N., et al. [1994.jp] 50-2829
- Eking out icing info. Hamm, J., [1995.eng] 50-3687
- Engineering-ecology safety during the operation of oil and gas facilities. Konstantinov, I.P., [1996.rus] 50-6845
- Escorting and tethering oil tankers in Prince William Sound. Corsini, T.J., [1995.eng] 50-5718
- Estimation of reliability of permafrost beds. Gerasimov, A.S., [1995.eng] 50-344
- Experimental investigations on the effectiveness of avalanche balloons. Tschirky, F., et al. [1995.eng] 50-4686
- Forecasting avalanche risks in France—assessment and perspective. Pahut, E., et al. [1995.fre] 50-4873
- Formation of ice film at the surface of compacted snow on roads. Matsuzawa, M., et al. [1996.jp] 50-3502
- Ground deicing problems cause accidents. Sumwalt, R.L., III, [1993.eng] 50-2991
- Ground deicing. George, F., [1995.eng] 50-3688
- Guide to interpretation of Swiss avalanche bulletins. Meister, R., ed. [1993.fre] 50-5075
- How to battle snow and ice. Askew, D., [1995.eng] 50-3858
- Ice detection apparatus for transportation safety. Stolarczyk, L.G., et al. [1995.eng] 50-3475
- Ice detection for turboprop aircraft. Render, P.M., et al. [1995.eng] 50-3691
- Ice free fire escapes. [1991.eng] 50-4379
- Ice in the intake causes close call. [1990.eng] 50-3572

- Ice is where you find it. Steenblik, J.W., [1995.eng] 50-4705
- Iceberg active and passive sonar acoustics and navigation safety along the Northern Sea Route. Gavrilov, V.P., et al. [1996.eng] 50-4483
- ICEYE: development of an aircraft ice accretion warning and monitoring system. Slaba, J., et al. [1995.eng] 50-4036
- Icing degrades aircraft performance: fluids provide best defense against ice on the ground. [1992.eng] 50-3575
- Impact of potential TV tower icing on a nearby proposed expressway. Courtney, F.E., [1993.eng] 50-6664
- Improved mining methods in permafrost regions. Tsygankov, A.V., [1992.rus] 50-816
- Industry researchers develop variety of ice sensors. Hughes, D., [1993.eng] 50-481
- Inflight icing part II: making hard choices. Steenblik, J.W., [1995.eng] 50-4703
- Inflight icing part III: operations. Steenblik, J.W., [1995.eng] 50-4704
- Inflight icing: certification vs. reality. Steenblik, J.W., [1995.eng] 50-1962
- Integrated system for artificial avalanche control. Gubler, H., [1995.eng] 50-4671
- International seminar on avalanche safety, Chamonix, France, 1995. Sivardiere, F., ed. [1995.fre] 50-4640
- Investigation of the impact of snow removal activities on pavement markings in Virginia. Cottrell, B.H., Jr., [1995.eng] 50-2791
- Local forecasting of avalanche hazard in La Plagne. Schneider, C., [1995.fre] 50-4657
- Local forecasting of avalanche hazards at Alpe d'Huez in the Grandes Rousses. Dautier, J.M., [1995.fre] 50-4661
- Meeting of the Avalanche Commission, Atrians, France, 1994. International Commission for Alpine Rescue (French version: Commission Internationale pour le Sauvetage Alpin) (German version: Internationale Kommission für Alpen Rettungswesen), Birchwil, Switzerland, [1995.ita] 50-2599
- Methods for creating a monitor of dangerous natural phenomena using an electronic map. Bidenko, S.I., [1991.rus] 50-1290
- Modeling of powder snow avalanches: possibilities for use in regulatory zoning of natural hazards. Bouvet, P., et al. [1995.fre] 50-4652
- Multilingual vocabulary—snow and avalanches. International Mountain Rescue Commission, [1991.eng] 50-5292
- New U.S. rules established for aircraft ground deicing and anti-icing. [1992.eng] 50-3576
- Observation guidelines and recording standards for weather, snowpack and avalanches. Canadian Avalanche Association, Revelstoke, British Columbia, [1995.eng] 50-852
- Part 135 icing: is half a reg better than none? DiNunno, G., [1993.eng] 50-2990
- Pedestrian slipping accidents and their prevention. Kelkka, M., [1995.fin] 50-5507
- Pedestrian slips and falls on icy roads. Takamori, M., et al. [1995.jp] 50-6794
- Performance of equipment for traffic report management systems. Obayashi, K., et al. [1992.jp] 50-3137
- Photo-registration of pre- and post-breakdown situations in oil pipelines in Siberia. Eliseev, I.U.B., [1996.rus] 50-6858
- Pilot techniques during icing conditions. den Hertog, R., [1992.eng] 50-3795
- Poles spaced along the road with overhead reflectors as lane markers in snow. Hirasawa, H., et al. [1994.jp] 50-2837
- Political, legal and strategic aspects of the Northern Sea Route. Ushakov, A.P., [1996.eng] 50-4455
- Predicting winter weather. Williams, J., [1995.eng] 50-3686
- Profession: cross country ski patrol. Ours, L., [1996.fre] 50-4870
- Project IV.1.1: historical and current use of the Northern Sea Route. Ivanov, I.U.M., et al. [1996.eng] 50-4456
- Relation between winter road maintenance and road safety. Sævehed, H., [1995.eng] 50-5929
- Relation of traffic to climate and road icing in downtown Sapporo. Matsuzawa, M., et al. [1995.jp] 50-6791
- Road condition reporting vehicles (Part 2). Harada, N., et al. [1995.jp] 50-6741
- Road surface covered with snow and ice and traffic accidents in Hokkaido. Takagi, H., [1995.jp] 50-3512
- Safe operation of arctic offshore drilling systems in the United States. Regg, J., et al. [1995.eng] 50-216
- Skier triggered slab avalanche release—some practical implications. Schweizer, J., et al. [1995.eng] 50-4687
- Small airline continues to win big battle against aircraft ground icing. [1992.eng] 50-3574
- SNOTAMS: Advisories on airport snow and ice conditions. Hamm, J., [1996.eng] 50-3685
- Snow disasters and countermeasure against it. Ikarashi, T., [1995.jp] 50-604
- Snow in the Chilean Andes and its natural hazards. Ugarte G., G., [1995.fre] 50-4690
- Studded tire research in Norway, Finland and Sweden. Johnson, E., et al. [1996.eng] 50-6163
- Study on the avalanche hazard in the central Spanish Pyrenees (Aragon region). Sáez Alagón, M.T., et al. [1995.fre] 50-4682
- Summer and autumn avalanches: a neglected hazard. Zuanon, J.P., [1995.fre] 50-4669
- Swiss concept for forecasting the danger of avalanches. Ammann, W.J., [1995.fre] 50-4659
- Tailplane stall: the rime is one reason. Dow, J.P., Sr., et al. [1993.eng] 50-2978

Saline ice

Salt ice

- Test program for aircraft ground anti-icing fluids. Myers, B.B., [1992,eng] 50-3797
- Two examples of expert knowledge based system for avalanche forecasting and protection. Buisson, L., et al., [1995,eng] 50-1055
- Use of snowmobiles. Sarraz-Bournet, P., [1996,fre] 50-4868
- Using Rutschblock testing to avoid avalanches. Abromeit, D., [1995,eng] 50-2863
- Volcanic eruption at a New Zealand ski resort prompts reevaluation of hazards. Ruapehu Surveillance Group, [1996,eng] 50-5501
- Which deicing fluids should be used and how. DiNunno, G., [1992,eng] 50-2984
- Winter flying—helicopters. [1985,eng] 50-3794
- Winter flying. [1985,eng] 50-3793
- Winter operations: keeping crews safe. [1995,eng] 50-3291
- Winter road surface conditions of national highways in Sapporo. Takahashi, K., et al., [1995,jpn] 50-6793
- Winter road traffic census. Ueki, S., et al., [1992,jpn] 50-3140
- Winter warning traffic signs in Hokkaido. Takayama, H., et al., [1995,jpn] 50-6796
- Workshop on Antarctic Air Transport Networks. Council of Managers of National Antarctic Programs, [1995,eng] 50-6270
- See [also]: Accidents
- Saline ice**
- See [also]: Salt ice
- Saline soils**
- Advanced classification system for Xinjiang soils. Li, Z.X., [1991,chi] 50-5112
- Amelioration of saline land in Xinjiang oases. Wang, G.F., et al., [1991,chi] 50-5119
- Analysis of the water and salt balance of the irrigated areas in the Yangqi Basin. Song, Y.D., et al., [1991,chi] 50-5121
- Argid of Xinjiang—a calcicorthid soil. Li, S.G., et al., [1991,chi] 50-5113
- Characteristics and formation of magnesian alkaline soils. Tian, C.Y., et al., [1991,chi] 50-5116
- Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996,rus] 50-6382
- Compressibility of saline frozen ground on the Yamal Peninsula. Morkovkin, E.I., et al., [1989,rus] 50-2307
- Corrosive aggressiveness of saline frozen ground with regard to steel (in the example of Yamal soil). Zykov, I.U.D., et al., [1995,rus] 50-2513
- Deformation properties of saline frozen rocks. Brushkov, A.V., [1996,rus] 50-6829
- Diagnostics of solonchaks: a class of salt-rich soils. Pankova, E.I., et al., [1995,eng] 50-3874
- Dielectric properties of frozen saline sands. Frolov, A.D., et al., [1995,rus] 50-2508
- Discussion of paper by Biggar et al. Juárez-Badillo, E., et al., [1995,eng] 50-582
- Distinguishing features of the phase transformations in saline frozen soils. Frolov, A.D., [1996,eng] 50-6481
- Drought and salt resistant plants in arid regions of China. Omasa, K., et al., [1991,jpn] 50-1442
- Effect of chemical composition of soils on the strength and deformability of frozen saline soils. Roman, L.T., [1995,eng] 50-632
- Effect of fertilizer on the quality and productivity of Jiashi melons. Zhao, G.H., et al., [1991,chi] 50-5124
- Effect of irrigation on the quality and productivity of Jiashi melons. Chang, Q., et al., [1991,chi] 50-5125
- Effect of saline frozen ground on radio wave propagation in arctic shore regions. Frolov, A.D., et al., [1995,eng] 50-202
- Effect of the mineral composition of soils on the coastal vegetation of the Chukotskiy Peninsula. Sergienko, L.A., [1991,rus] 50-1308
- Establishment of a model for predicting unfrozen water content in saline frozen soils. Xu, X.Z., et al., [1995,eng] 50-4517
- Fertilizers and enzyme activity of Jiashi melon field soils. Yue, H.X., et al., [1991,chi] 50-5126
- Frost characteristic of saline soil and its effect on canals. Feng, T., [1989,chi] 50-1388
- Late Cenozoic geology and environmental evolution of the Qaidam Basin in Qinghai. [1986,chi] 50-1981
- Lithium and boron geochemistry of salt lakes in the Qaidam Basin. Zheng, X.Y., [1986,chi] 50-1992
- Long-term pile load testing system performance in saline and ice-rich permafrost. Biggar, K.W., et al., [1996,eng] 50-6427
- Low-yield land and its amelioration in Xinjiang. Zhang, B.Q., et al., [1991,chi] 50-5118
- Mathematical model of the freezing-thawing of saline frozen soil. Vasil'ev, V.I., et al., [1996,eng] 50-5268
- Mechanism for consolidating ice and saline frozen ground with polyvinyl alcohol admixtures. Cheverev, V.G., et al., [1993,rus] 50-127
- Model pile tests in saline soils. Christopherson, A., et al., [1991,eng] 50-1719
- Oil and gas development challenges in the Russian Arctic. Ruzhanskii, V.E., et al., [1996,eng] 50-6432
- On the direction of soluble salt migration during freezing. Qiu, G.Q., et al., [1989,chi] 50-1373
- Origin of sylvites and salts in the Qaidam Basin. Yang, Q., [1986,chi] 50-1987
- Parameters of the distribution of electromagnetic waves in frozen ground. Frolov, A.D., et al., [1995,rus] 50-2509
- Phase composition of moisture in saline frozen ground. Motenko, R.G., et al., [1996,rus] 50-6837
- Phase equilibrium of soil water on the cryolithosphere. Konov-alov, A.A., [1996,rus] 50-6812
- Physical-chemical fundamentals of strength of frozen saline soils. Roman, L.T., et al., [1996,rus] 50-6826
- Pressure and salinity effects on phase composition of water in frozen ground. Kondakov, V.V., et al., [1990,rus] 50-1612
- Quaternary eolian deposits at a salt lake in the Qaidam Basin. Wang, J.D., et al., [1986,chi] 50-1994
- Salt precipitation and accumulation in the Taklimakan Desert. Okada, A., et al., [1991,jpn] 50-1429
- Selenium in the saline podsol and desert soils of the northern foothills of Tian Shan. Wang, Z.Q., [1991,chi] 50-5131
- Soils and melon cultivation in Jiashi County, Xinjiang. Li, P.Q., et al., [1991,chi] 50-5123
- Some paleomagnetic study results in the Kuntayi Lake region of the Qaidam Basin. An, Z.S., [1986,chi] 50-1993
- State and salinity of soils in the littoral sections of the Kara Sea. Dubikov, G.I., et al., [1996,rus] 50-6376
- Steel pipe pile foundations for school building in saline permafrost. Merrill, K.S., et al., [1996,eng] 50-6127
- Studies on the soils and land resources of Xinjiang. Xinjiang Institute of Biology, Pedology, and Desert Research of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang shengwu nung shimo yanjiusuo), Urumqi, [1991,chi] 50-5106
- Study on alfalfa seedling cultivation technology in saline hard-pan soil. Ma, S.Z., et al., [1991,chi] 50-5122
- Study on the causes and control of bitter pit in apples. Yu, Q.L., et al., [1991,chi] 50-5127
- Study on the dynamics of chemical elements in desert saline soil-plant systems. Wang, Z.Q., et al., [1991,chi] 50-5132
- Unfrozen water content of soil containing NaCl relating to freezing-thawing processes. Zhang, L.X., et al., [1995,chi] 50-5637
- Using integrated numerical analytical microcomputer software in alkaline soil analysis. Yao, G.R., et al., [1991,chi] 50-5117
- Salinity**
- Analysis of the water and salt balance of the irrigated areas in the Yangqi Basin. Song, Y.D., et al., [1991,chi] 50-5121
- Anatomy of the Arctic Frontal Zone in the Greenland Sea. van Aken, H.M., et al., [1995,eng] 50-573
- Application of satellite visible band data to high latitude oceans. Ahlén, K., et al., [1989,eng] 50-3934
- Chemical characteristics of water masses in the Bransfield Strait. Wang, Y.H., et al., [1989,chi] 50-6772
- Chemical oceanography of the Arctic and its shelf seas. Anderson, L.G., [1995,eng] 50-1164
- Circulation and water mass modifications along the Nansen Basin slope. Schauer, U., et al., [1995,eng] 50-2074
- Cold bottom water in the southern Laptev Sea. Churun, V.N., et al., [1995,eng] 50-2076
- Competing roles of heat and freshwater flux in forcing thermohaline oscillations. Pierce, D.W., et al., [1995,eng] 50-596
- Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996,rus] 50-6382
- CTD measurements in the Greenland Sea, 1993. Budéus, G., et al., [1996,eng] 50-5105
- Current problems in the Aral Sea and prospects for their solutions. Tsytarin, A.G., et al., [1991,rus] 50-731
- Damming James Bay: II. Impacts on coastal marshes. Price, J.S., et al., [1992,eng] 50-5031
- Decadal oscillations driven by the annual cycle in a zonally-averaged coupled ocean-ice model. Yang, J.Y., et al., [1996,eng] 50-3069
- Deformation properties of saline frozen rocks. Brushkov, A.V., [1996,rus] 50-6829
- Dense water formation on arctic shelves. Gawarkiewicz, G., et al., [1996,eng] 50-6671
- Dielectric properties of frozen saline sands. Frolov, A.D., et al., [1995,rus] 50-2508
- Direct measurements of transport and water properties through the Bering Strait. Roach, A.T., et al., [1995,eng] 50-566
- Disturbances in the thermohaline structure of the near-surface ocean layer in the wake of an iceberg. Abaza, V.P., et al., [1995,rus] 50-4202
- Effect of cryopegs on the temperature and salinity of surrounding permafrost. Anisimova, N.P., [1996,rus] 50-6390
- Effect of sea ice on the salinity of antarctic bottom waters. Toggweiler, J.R., et al., [1995,eng] 50-336
- Experimental study of freezing of binary solutions. Zampino, M.A., et al., [1991,eng] 50-1243
- Experimental voyage through Northern Sea Route. Yamaguchi, H., [1996,eng] 50-4425
- Fine structure at CTD stations of the First Chinese Southern Ocean Expedition. Fang, X.H., et al., [1989,chi] 50-6766
- Formation and discharge of deep and bottom water in the northwestern Weddell Sea. Fahrback, E., et al., [1995,eng] 50-670
- Formation and evolution of the surface mixed layer and halocline of the Arctic Ocean. Rudels, B., et al., [1996,eng] 50-5261
- Freshwater impact on Hudson bay ecosystems under sea ice, pt.2. Legendre, L., et al., [1996,eng] 50-4020
- Freshwater impact on Hudson bay ecosystems under sea ice, pt.3. Fortier, L., et al., [1996,eng] 50-4021
- Geological specifics in the natural dynamics of the subarctic cryolithosphere. Oberman, N.G., [1996,rus] 50-6850
- Glacial drainage through the Mediterranean during the Middle and Late Pleistocene. Arkhipov, S.A., et al., [1995,eng] 50-1799
- Iceberg active and passive sonar acoustics and navigation safety along the Northern Sea Route. Gavrilov, V.P., et al., [1996,eng] 50-4483
- Identification of ice-rafter sediments in Atlantic Ocean bottom cores. Auffret, G.A., et al., [1996,eng] 50-5218
- Influence of runoff from land on the distribution of hydrologic characteristics of the Kara Sea. Burenkov, V.I., et al., [1995,eng] 50-3531
- Melting driven thermohaline convection. Bénard, C., et al., [1996,eng] 50-3611
- Mesoscale-fine structure relationship in antarctic ocean currents. Shapiro, G.I., et al., [1994,eng] 50-866
- Migration of chemical elements in frozen rocks. Chuvilin, E.M., et al., [1996,rus] 50-6820
- Movement of ACC eddies at the eastern boundary of the Weddell Gyre. Guretskii, V.V., et al., [1994,eng] 50-337
- New insights on large-scale oceanography in Fram Strait: the West Spitsbergen Current. Gascard, J.C., et al., [1995,eng] 50-1163
- Oceanographic conditions of Murman coastal biocoenoses. Boitsov, V.D., et al., [1995,eng] 50-4138
- Parameters of the distribution of electromagnetic waves in frozen ground. Frolov, A.D., et al., [1995,rus] 50-2509
- Penetrative convection induced by the freezing of seawater. Hadji, L., et al., [1996,eng] 50-6761
- Phase composition of moisture in saline frozen ground. Motenko, R.G., et al., [1996,rus] 50-6837
- Phase equilibrium of soil water on the cryolithosphere. Konov-alov, A.A., [1996,rus] 50-6812
- Physical-chemical fundamentals of strength of frozen saline soils. Roman, L.T., et al., [1996,rus] 50-6826
- Plant ecology during desertification of an arctic salt marsh. Srivastava, D.S., et al., [1996,eng] 50-4523
- Pressure and salinity effects on phase composition of water in frozen ground. Kondakov, V.V., et al., [1990,rus] 50-1612
- Pressure, salinity, and maximum density temperature of sea water. Kukulka, D.J., et al., [1996,eng] 50-6441
- Reduced Laurentide meltwater outflow. de Vernal, A., et al., [1996,eng] 50-5523
- Relation between distribution of phytoplankton and sea water stability. Su, Y.F., [1989,chi] 50-6767
- Release of brine-enriched shelf water from Storfjord into the Norwegian Sea. Schauer, U., [1995,eng] 50-574
- Review of sea ice density. Timco, G.W., et al., [1996,eng] 50-3823
- Salinity of Quaternary deposits in the western Yamal Peninsula. Lakhina, O.V., et al., [1983,rus] 50-314
- Satellite radar survey of Japan Sea ice processes. Martin, S., et al., [1995,eng] 50-1810
- Sketch of hydrographic structure and circulation in the waters near Wilkes Land, Antarctica. Miao, Y.T., et al., [1989,chi] 50-6765
- Study of short term variability in oceanographic data with the aid of numerical filters. Potanin, V.A., et al., [1992,rus] 50-814
- Temperature evolution of a chemically stratified lake. Spigel, R.H., et al., [1996,eng] 50-6333
- Thermohaline characteristics of the shelf fronts in the western Bering Sea. Verkhunov, A.V., [1995,eng] 50-2533
- Thermohaline circulation of the Arctic Ocean and the Greenland Sea. Rudels, B., [1995,eng] 50-5234
- Thermohaline circulation of the Arctic Ocean. Poliakov, I.V., et al., [1995,rus] 50-4118
- Thickness of summer Arctic Ocean multiyear ice. Eicken, H., et al., [1995,eng] 50-2112
- Upward flushing of sea water through first year sea ice. Hudier, E.J.J., et al., [1995,eng] 50-4210
- Variability of arctic sea ice along the Northern Sea Route. Ono, N., [1996,eng] 50-4477
- Variables of cryopreservation of marine microalgae. Catavate, J.P., et al., [1995,eng] 50-4327
- Water masses and circulation around the South Shetland Islands in summer. Yang, T.Z., et al., [1989,chi] 50-6764
- See [also]: Ice salinity
- Salt content**
- See [also]: Salinity
- Salt extraction**
- See [also]: Desalting
- Salt ice**
- Compressive failure of columnar saline ice under multiaxial loading. Schulson, E.M., [1995,eng] 50-6282
- Conductivity effects on electromagnetic emissions (EME) from ice fracture. O'Keefe, S.G., et al., [1996,eng] 50-4221
- Correction to paper by Schulson and Nickolayev. Schulson, E.M., et al., [1996,eng] 50-4361
- Creep of saline ice at low stresses and high temperatures. Richter-Menge, J.A., et al., [1995,eng] 50-179
- Ductile deformation of columnar saline ice under triaxial compressive loading. Melton, J.S., et al., [1995,eng] 50-2957
- Exclusion of sodium chloride from ice during freezing. Cragin, J.H., [1995,eng] 50-3131
- Field and laboratory experiments and modeling of the constitutive behavior of sea ice. Cole, D.M., [1995,eng] 50-6280
- Laboratory study of microwave backscattering from saline ice. Porco, R.L., [1994,eng] 50-683
- Modelling of icing on structures from fresh and light salt water. Frolov, A.D., et al., [1996,eng] 50-6458
- Multiaxial creep of saline ice. Golubov, A.I., et al., [1990,eng] 50-102

Salt lakes

Salt lakes

- Basic characteristics and paleoclimatic evolution of Qarhan Salt Lake. Chen, K.Z., et al. [1986,chi] 50-1984
- Chemistry of salt minerals and their depositional environment in the Qaidam Basin. Dong, J.H., [1986,chi] 50-1988
- Copepod adaptability to temperature and salinity in a salt lake. Wang, Z.P., et al. [1989,chi] 50-6777
- Drill cores from Qarhan Salt Lake. Yang, S.X., [1992,chi] 50-1488
- Effect of salinity on oxygen metabolism of copepods in a salt lake. Wang, Z.P., [1989,chi] 50-6778
- Features of potash sedimentation in the upper salt layer (S₄) in the Qarhan Salt Lake. Li, B.X., et al. [1992,chi] 50-1487
- Geochemical evolution and paleoclimatology of a salt lake in the Qaidam Basin. Han, F.Q., et al. [1995,chi] 50-4126
- Lakes and marshes in Hokkaido. Sakata, Y., ed., et al. [1990,jpn] 50-2292
- Late Cenozoic geology and environmental evolution of the Qaidam Basin in Qinghai [1986,chi] 50-1981
- Lithium and boron geochemistry of salt lakes in the Qaidam Basin. Zheng, X.Y., [1986,chi] 50-1992
- Origin of sylvests and salts in the Qaidam Basin. Yang, Q., [1986,chi] 50-1987
- Pollen assemblages from a borehole in Dabson Lake. Du, N.Q., et al. [1986,chi] 50-1986
- Principal mineral resources and their distribution on the Qinghai-Xizang Plateau. Xu, Z.Y., et al. [1991,chi] 50-2295
- Quaternary eolian deposits at a salt lake in the Qaidam Basin. Wang, J.D., et al. [1986,chi] 50-1994
- Research on clay minerals in salt lakes of China. Xu, C., [1993,chi] 50-1850
- Saline-lake resources on the Qinghai-Xizang Plateau and their developed prospect. Zheng, M.P., [1992,chi] 50-1486
- Salt lakes in Xizang. Zheng, X.Y., et al. [1988,chi] 50-1848
- Salt lakes of Inner Mongolia. Zheng, X.Y., et al. [1992,chi] 50-1849
- Salt lakes of Qaidam Basin. Zhang, P.X., et al. [1987,chi] 50-1845
- Shrinking of Quaternary lakes and environmental changes on the Tibetan Plateau. Zhao, Y.T., [1994,eng] 50-4781
- Soluble salts and heavy hydrogen in Bosten Lake. Huang, Z.W., et al. [1991,chi] 50-5134
- Some geological problems regarding salt lakes on the Qinghai-Xizang Plateau. Zhang, P.X., [1986,chi] 50-1985
- Some paleomagnetic study results in the Kuntuyi Lake region of the Qaidam Basin. An, Z.S., [1986,chi] 50-1993

Salt spray

See [also]: Sea spray

Salt water

- Exclusion of sodium chloride from ice during freezing. Cragin, J.H., [1995,eng] 50-3131
- Freezing of a salt solution in a packed bed. Chellaiiah, S., et al. [1995,eng] 50-2956
- Freezing of a salt solution in a packed bed. Chellaiiah, S., et al. [1996,eng] 50-3909
- Freezing of an aqueous sodium chloride saturated packed bed. Choi, J., et al. [1993,eng] 50-5781
- Freezing point depression by common salts: implications for corrosion in cold climates. Brass, G.W., [1996,eng] 50-5951
- Influence of supercooling on salt-water saturated porous medium. Okada, M., et al. [1996,eng] 50-6762
- Mathematical model of the freezing-thawing of saline frozen soil. Vasil'ev, V.I., et al. [1996,eng] 50-5268
- See [also]: Sea water

Salting

- Alkaline snow-melting agents containing chlorides and lime for pavements and roads. Ekusa, K., et al. [1996,eng] 50-5591
- Alternative deicing chemicals research. Woodham, D., [1994,eng] 50-1072
- Anti-icing: a bold new strategy [1995,eng] 50-490
- Assessment of the use of deicing salts. Breitenstein, J., [1996,ger] 50-3617
- Calcium chloride production process. Davidson, C.M., et al. [1993,eng] 50-2235
- Calculation of the amount of salt required to melt ice and snow on highways. Schneider, T.R., [1962,eng] 50-3881
- Cathodic protection in North America: field results in high and low temperature environments. Bennett, J.E., et al. [1995,eng] 50-2661
- Cement type and freeze-thaw resistance of concrete. Stark, J., et al. [1995,eng] 50-2637
- Chemical attack of de-icing salts on portland cement concrete. Sasatani, T., et al. [1995,eng] 50-2678
- Chloride problems in UK highway structures. Mawhinney, M., [1995,eng] 50-2660
- Combined effect of acid and deicer solutions on fiber-reinforced hardened cement pastes. Fujii, T., [1995,eng] 50-2677
- Compositions containing ammonium salts and urea for melting of snow. Abe, H., et al. [1995,eng] 50-4595
- Concrete scaling from deicing salts. Johnston, C.D., [1995,eng] 50-2641
- County improves its snow and ice control program. da Cunha, M., [1996,eng] 50-6101
- Development of equipment for pulverizing solid deicers. Inui, T., et al. [1992,jpn] 50-3142
- Developments in airport ice control chemicals. Townshend, T., [1995,eng] 50-3119
- Direct calcium magnesium acetate production. Flickinger, M.C., et al. [1992,eng] 50-2230
- Effect of de-icing salts on frost damage of high-strength concrete. Miura, T., et al. [1995,eng] 50-2639

- Effect of deicers on roadside trees in Hokkaido. Miyamoto, S., et al. [1995,jpn] 50-6788
- Effects of deicing salt on vegetation along highways in Sweden. Bäckman, L., et al. [1995,eng] 50-4602
- Emissions from antiskid materials applied to icy roadways. Phase 2. Kinsey, J.S., [1995,eng] 50-3939
- Evaluation of the precision of freeze thaw and deicing salt testing by the CDF procedure. Setzer, M.J., et al. [1995,eng] 50-2622
- Evaluation procedures for deicing chemicals and improved sodium chloride. Chappelow, C.C., et al. [1993,eng] 50-875
- Freeze-thaw and deicing salt resistance of concrete—basic research and testing. Setzer, M.J., [1995,eng] 50-2620
- Frost and deicing salt resistance of concrete pavements. Setzer, M.J., et al. [1994,ger] 50-2797
- Frost durability of high-performance concrete. Marchand, J., et al. [1995,eng] 50-2640
- Handling snow on the New Jersey Turnpike. Pagan, A.R., [1995,eng] 50-3859
- High-performance concrete incorporating large volumes of ASTM Class F fly ash. Bilodeau, A., et al. [1994,eng] 50-2765
- Impact of deicing chemicals on plants in Hokkaido. Miyamoto, S., et al. [1994,jpn] 50-2828
- Measuring salt's effectiveness in New York. Hart, R.D., et al. [1995,eng] 50-1560
- Migrating corrosion inhibitors for reinforced concrete. Miksic, B., et al. [1996,eng] 50-5947
- New deicing tactics: prewet with salt brine. [1996,eng] 50-3454
- New salting methods on UK highways. Cruickshank, J., [1996,eng] 50-4366
- Ottawa tests low-cost salt pre-wetting system. Miner, L., [1995,eng] 50-3292
- Prewetting salt with liquid calcium chloride for ice control on urban streets. Dunn, W., et al. [1995,eng] 50-3118
- Protection against chloride-induced corrosion. Berke, N.S., et al. [1988,eng] 50-4229
- Relation between winter road maintenance and road safety. Slavenhede, H., [1995,eng] 50-5929
- Salted drilling mud helps prevent casing collapse in permafrost. Kutsov, I.M., [1995,eng] 50-142
- Service evaluation of light de-icing and snowplowing equipment. Girardin, M., [1995,eng] 50-4037
- Snow and ice control in North America. Perry, A.H., et al. [1991,eng] 50-4905
- Spreader of choice for Michigan's snow-bound Upper Peninsula. Haag, J., [1995,eng] 50-1086
- Study of concrete bridges exposed to deicing salts. Novokshchenov, V., [1989,eng] 50-4225
- What you need to know about prewetting deicers. Mergenmeier, A., [1995,eng] 50-3857
- Winter maintenance and chemical shortages. Pagan, A.R., [1995,eng] 50-1558
- Zero-velocity deicer spreaders clear more roadway for less. Banasiak, D., [1995,eng] 50-3675

Samplers

- Inexpensive water collectors for study of surface water acidification during snowmelt. Gaskin, G.J., et al. [1995,eng] 50-1569
- Probe method for interstitial soil water sampling. Harrison, W.D., et al. [1981,eng] 50-3063
- See [also]: Core samplers; Snow samplers

Sampling

- 10-century comparison of prominent bipolar volcanic events in ice cores. Langway, C.C., Jr., et al. [1995,eng] 50-583
- 110,000-yr record of explosive volcanism from the GISP2 (Greenland) ice core. Zielinski, G.A., et al. [1996,eng] 50-4575
- 130 years deposition record of sulfate, nitrate and chloride from a high-alpine glacier. Döschner, A., et al. [1995,eng] 50-4079
- 135,000-year Vostok SPECMAP common temporal framework. Sowers, T., et al. [1993,eng] 50-2867
- ²²Ra as a tracer for shelf water in the Arctic Ocean. Van der Loeff, M.M.R., et al. [1995,eng] 50-4564
- ²³⁴Th as an indicator of particulate fluxes in the Kara Sea. Kuptsov, V.M., et al. [1995,eng] 50-3544
- Abundance and production of bacteria and viruses in the Bering and Chukchi Seas. Steward, G.F., et al. [1996,eng] 50-4158
- Acid aerosols in rime on Kyushu, Japan. Nagafuchi, O., et al. [1995,eng] 50-4957
- Acid pollutants in air and precipitation/deposition at the Sudeten Mountains, Poland. Kmiec, G., et al. [1995,eng] 50-4954
- Aerosol deposition to an alpine tundra ecosystem. Sievering, H., et al. [1996,eng] 50-5964
- Aerosols composition over the Arctic Ocean. Shevchenko, V.P., et al. [1995,eng] 50-2061
- Aerosols used as tracers for stratosphere-troposphere exchange in the Arctic. Foltescu, V.L., et al. [1995,eng] 50-777
- Age of carbon black atmospheric aerosols over Finland. Raunemaa, T., et al. [1996,eng] 50-5257
- Aggregate degradation in the frost heave test. Hill, J., [1977,eng] 50-2320
- Airborne Arctic Stratospheric Expedition: prologue. Turco, R.P., et al. [1990,eng] 50-5973
- Airborne hydrogen peroxide measurements in supercooled clouds. Snider, J.R., et al. [1995,eng] 50-2114
- Airborne measurements of atmospheric methane over oil fields in western Siberia. Tohjima, Y., et al. [1996,eng] 50-6509
- Aircraft measurements of the stable carbon isotopic ratio of atmospheric methane over Siberia. Sugawara, S., et al. [1996,eng] 50-6051

- Alpine vascular flora of the Tushar Mountains, Utah. Taye, A.C., [1995,eng] 50-1541
- Analysis of long term sulfate and nitrate budgets in a Rocky Mountain basin. Baron, J.S., et al. [1995,eng] 50-2417
- Antarctic planktonic biomass seasonal variations. Skerratt, J.H., et al. [1995,eng] 50-1118
- Antifreeze glycopeptides and peptides in fish from the Weddell and Lazarev seas. Wöhrmann, A.P.A., [1996,eng] 50-3959
- Arctic algal communities in the region of the Nuvuk Islands, northeastern Hudson Bay, Canada. Keats, D.W., et al. [1989,eng] 50-3692
- Arctic atmospheric aerosol number size distributions. Covert, D.S., et al. [1996,eng] 50-4315
- Arctic atmospheric composition during episodic air pollution. Lejenäs, H., et al. [1996,eng] 50-6710
- Arctic fungi classification and structural analysis. Currah, R.S., et al. [1996,eng] 50-4264
- Arctic lichen collections from 1959 excursion. Thomson, J.W., et al. [1992,eng] 50-6522
- Arctic marine mammals as integrators and indicators of mercury in the Arctic. Wagemann, R., et al. [1995,eng] 50-881
- Arctic Ocean dimethyl sulfide seasonal variability. Leck, C., et al. [1996,eng] 50-4313
- Arctic Ocean radioactive isotope distribution and transport. Scholten, J.C., et al. [1995,eng] 50-4563
- Arctic soil microbial biomass response to fertilizer additions. Jonasson, S., et al. [1996,eng] 50-6230
- Arctic stratospheric aerosol distribution. Brune, W.H., et al. [1990,eng] 50-6014
- Are arctic soft-sediment macrobenthic communities impoverished. Kendall, M.A., [1996,eng] 50-6720
- Arsenic pollutants in Pechora Sea sediments. Loring, D.H., et al. [1995,eng] 50-1829
- Artifact peroxides produced during cryogenic sampling of ambient air. Stauffelbach, T., et al. [1995,eng] 50-1187
- Atmospheric aerosol in the Finnish Arctic. Virkkula, A., et al. [1995,eng] 50-4952
- Atmospheric bromine in the Arctic. Berg, W.W., et al. [1983,eng] 50-3650
- Atmospheric carbon emission from North Asian lakes: a factor of global significance. Semiletov, I.P., et al. [1996,eng] 50-5609
- Atmospheric chemistry changes versus past climate inferred from polar ice cores. Legrand, M., [1995,eng] 50-1643
- Atmospheric CO₂ variations at Spitsbergen. Engardt, M., et al. [1996,eng] 50-3723
- Atmospheric CO₂ variations inferred from antarctic ice composition. Etheridge, D.M., et al. [1996,eng] 50-3446
- Atmospheric deposition at Niwot Ridge, CO. Rusch, D., et al. [1995,eng] 50-2395
- Bacterial activity in the Schirmacher Ponds in summer. Ramaiya, N., [1995,eng] 50-1281
- Bacterial ecosystem dynamics in a high mountain lake. Alfreider, A., et al. [1996,eng] 50-5681
- Balloon sounding of arctic stratospheric chemistry. Kondo, Y., et al. [1990,eng] 50-5999
- Basal debris entrainment of Canadian arctic glaciers. Zdanowicz, C.M., et al. [1996,eng] 50-6247
- Basal water pressure as indicator of subglacial drainage patterns. Stone, D.B., et al. [1996,eng] 50-6090
- Basis for statistical inferences in coastal injury assessment of Exxon Valdez oil spill. McDonald, L.L., et al. [1995,eng] 50-3922
- Beetle microhabitat distribution in a glacier ablation zone. Gerken, B.A., [1995,eng] 50-2812
- Benthic sediment hydrocarbon sources following the Exxon Valdez oil spill. Page, D.S., et al. [1995,eng] 50-3915
- Benthic studies in the Laptev Sea. Schmid, M.K., et al. [1995,eng] 50-2087
- Benthic-pelagic coupling in the Greenland-Norwegian Sea and its effect on the geological record. Graf, G., et al. [1995,eng] 50-747
- Biogenic organic compounds in ponds on the McMurdo Ice Shelf. Schall, C., et al. [1996,eng] 50-3703
- Biogeochemical cycling in a seasonally anoxic lake. Hamilton-Taylor, J., et al. [1996,eng] 50-5818
- Biogeochemistry of sediment diagenesis at Kara Sea-Yenisey River boundary layer. Lein, A.U., et al. [1995,eng] 50-3535
- Bismuth in recent snow from central Greenland: preliminary results. Candelone, J.P., et al. [1995,eng] 50-779
- Block moraine formation of antarctic glaciers. Fitzsimons, S.J., [1996,eng] 50-6242
- Bottom biocoenoses of the Laptev Sea and adjacent areas. Sirenko, B.I., et al. [1995,eng] 50-2088
- Bottom sediment chemical composition of the Kara Sea and estuaries. Gurvich, E.G., et al. [1995,eng] 50-3545
- Boundary layer characteristics of the continental margin of the western Barents Sea. Thomsen, L., et al. [1994,eng] 50-1245
- Boundary-layer ozone depletion as seen in the Norwegian arctic in spring. Solberg, S., et al. [1996,eng] 50-4152
- Brittle star fauna biomass in the northeastern Barents Sea. Piepenburg, D., et al. [1996,eng] 50-6719
- Buoy for all arctic seasons: the Ice-Ocean Environmental Buoy. Honjo, S.S., [1996,eng] 50-6673
- Can inorganic chemical species volatilize from snow. Cragin, J.H., et al. [1995,eng] 50-2393
- Canadian paleoenvironments derived from pollen macrofossils. Gajewski, K., et al. [1995,eng] 50-2131

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Sampling

- Cation trace analysis of snow and firn samples from high-alpine sites by ion chromatography. Döschner, A., et al. [1995,eng] 50-594
- Changes in trace element speciation in Kola north surface waters during snow melt. Rodushkin, I.V., et al. [1995,eng] 50-4080
- Characteristics of water quality in a forest river during the snow melting period. Tachibana, H., et al. [1994,eng] 50-4222
- Chemical and isotopic tracers of snowmelt flowpaths in a subalpine watershed. Miller, E.K., et al. [1995,eng] 50-2427
- Chemical and toxicological evaluation of water quality following the Exxon Valdez oil spill. Neff, J.M., et al. [1995,eng] 50-3917
- Chemical characterization of individual aerosol particles in central Siberia. Van Malderen, H., et al. [1996,eng] 50-4966
- Chemical composition of suspended sediments in the Lena River and its mixing zone. Gordeev, V.V., et al. [1995,eng] 50-2081
- Chemical correlates of Hg and methyl-Hg in northern Wisconsin lake waters under ice-cover. Watras, C.J., et al. [1995,eng] 50-2125
- Chemistry of artificial snow and its influence on the germination of mountain flora. Jones, H.G., et al. [1995,eng] 50-2428
- Chlorophyll fluorescence in the Laptev Sea. Anoshkin, A.F., et al. [1995,eng] 50-2083
- Chlorophyll in the western Bering Sea. Mordasova, N.V., [1995,eng] 50-3605
- Chronology of late Wisconsin ice retreat from the western Ross Sea, Antarctica. Licht, K.J., et al. [1996,eng] 50-3814
- Classification uncertainties within foraminifera species in McMurdo Sound, Antarctica. Bowser, S.S., et al. [1995,eng] 50-3345
- Clay mineral signature of the NW Atlantic Boundary Undercurrent. Fagel, N., et al. [1996,eng] 50-4822
- Climate change in the recent evolution of a pro-glacial lake. Webster, J., et al. [1996,eng] 50-3704
- Climatic implications of Norwegian Neoglaciation glacier maximum. Matthews, J.A., [1991,eng] 50-3306
- Clonal diversity in an arctic sedge. Jonsson, B.O., et al. [1996,eng] 50-6076
- Cloud condensation nuclei over the Arctic Ocean in early spring. Hegg, D.A., et al. [1995,eng] 50-348
- Comparative analytical techniques for glacial diatom studies. Walden, J., et al. [1996,eng] 50-6537
- Comparative characteristics of polychaete taxocenoses in Pevek Strait, Chaus Bay, and Long Strait. Gagaev, S.I.U., [1995,eng] 50-2534
- Comparison of subglacial and extra-glacial weathering. Axtmann, E.V., et al. [1995,eng] 50-2436
- Composition and distribution of summer zooplankton in the Laptev Sea. Kosobokova, K., et al. [1995,eng] 50-2085
- Compositional simulation and performance analysis of the Prudhoe Bay Miscible Gas Project. McGuire, P.L., et al. [1991,eng] 50-1702
- Concentration changes of MSA and major ions in arctic aerosols during polar sunrise. Suzuki, K., et al. [1995,eng] 50-3251
- Condensation nuclei production in the arctic polar vortex. Wilson, J.C., et al. [1990,eng] 50-5983
- Contemporary status of bottom fauna in the Chernaya Bay (Novaya Zemlya Archipelago). Matishov, G.G., et al. [1996,eng] 50-4147
- Contributions of snow and fog to Greenland ice sheet ionic variations. Bergin, M.H., et al. [1995,eng] 50-586
- Controls on CH₄ flux from an Alaskan boreal wetland. Moosavi, S.C., et al. [1996,eng] 50-6053
- Core preservation to aid arctic oil reservoir evaluation. MacGregor, K.W., et al. [1991,eng] 50-1740
- Coupling PIXE and SEM/EDAX for characterizing atmospheric aerosols in ice-cores. Laj, P., et al. [1996,eng] 50-6324
- Current water quality in Cook Inlet, Alaska, study. University of Alaska. Environment and Natural Resources Institute, [1995,eng] 50-4400
- Daily vertical migration of antarctic copepods beneath the ice. Tseitlin, V.B., et al. [1995,eng] 50-3607
- Damming James Bay: II. Impacts on coastal marshes. Price, J.S., et al. [1992,eng] 50-5031
- Dating analysis of Norwegian Neoglaciation moraines. Matthews, J.A., et al. [1996,eng] 50-4375
- Decline of fauna in small streams in the Swedish mountain range. Olofsson, E., et al. [1995,eng] 50-4078
- Decomposition of needle litter in a forest ecosystem. Berg, B., et al. [1995,eng] 50-2731
- Deposition of atmospheric biphenyls in the Canadian Arctic. Gregor, D., et al. [1996,eng] 50-6521
- Deposition around a coal-fired power station during a winter-time precipitation event. Jylhä, K., [1995,eng] 50-4953
- Deposition of organic matter in the Norwegian-Greenland Sea during the past 2.7 million years. Wagner, T., et al. [1995,eng] 50-2016
- Detection of air pollution at a Svalbard mountain station. Beine, H.J., et al. [1996,eng] 50-5205
- Determination of alpine treeline variations from soil charcoal sediments. Carcaillat, C., et al. [1996,eng] 50-4746
- Determination of alpine treeline variations from soil charcoal sediments. Carcaillat, C., et al. [1996,eng] 50-4746
- Determining past atmospheric HCl mixing ratios from ice core analyses. Domine, F., et al. [1995,eng] 50-1104
- Development of an Alaskan North Slope soils database for drill cuttings reclamation. Schumacher, J.P., et al. [1991,eng] 50-1722
- Diamond exploration in glaciated terrain: a Russian perspective. Golubev, I.U.K., [1995,eng] 50-1092
- Diatom, chrysophyte and protozoan distributions along a latitudinal transect in Fennoscandia. Pienitz, R., et al. [1995,eng] 50-4741
- Diel variations of H₂O₂ in Greenland: a discussion of the cause and effect relationship. Bales, R.C., et al. [1995,eng] 50-634
- Differentiation of Ob and Yenisei waters in the Kara Sea by alkalinity and silicate. Stunzhas, P.A., [1995,eng] 50-6688
- Dimethyl sulfide in the arctic atmosphere. Ferek, R.J., et al. [1995,eng] 50-2850
- Dissolved inorganic carbon in the Kara Sea and in the mouths of the Ob and Yenisey Rivers. Makkaveev, P.N., [1995,eng] 50-3533
- Dissolved organic matter in arctic sea ice. Thomas, D.N., et al. [1995,eng] 50-717
- Distribution and biomass of Greenland shelf epibenthic megafauna. Piepenburg, D., et al. [1996,eng] 50-5045
- Distribution of bacterioplankton in the Kara Sea in September 1993. Mitskevich, I.N., et al. [1995,eng] 50-3537
- Distribution of deuterium excess in surface snow of the antarctic ice sheet. Ren, J.W., et al. [1995,eng] 50-978
- Distribution of hydrogen peroxide in surface snow over antarctic ice sheet. Kamiyama, K., et al. [1996,eng] 50-3452
- Distribution of metals in Laptev Sea pore waters. Langner, C., [1995,eng] 50-2103
- Distribution of pesticide residues in arctic coastal ecosystems. Bright, D.A., et al. [1995,eng] 50-4747
- Distribution of river water and suspended sediments in the river deltas of the Laptev Sea. Ivanov, V.V., et al. [1995,eng] 50-2080
- Distribution of sea-ice algae in Hudson Bay. Monti, D., et al. [1996,eng] 50-5211
- Distribution of trace elements in the Laptev Sea. Hölemann, J.A., et al. [1995,eng] 50-2098
- Distribution, origin, and hydraulic influence of fractures in a clay-rich glacial deposit. McKay, L.D., et al. [1995,eng] 50-3254
- Drilling and sampling of permafrost for site investigation purposes: a review. Riddle, C.H., et al. [1991,eng] 50-1747
- Dry depositional loading of nitrogen to an alpine snowpack. Niwot Ridge, Colorado. Cress, R.G., et al. [1995,eng] 50-2396
- Dynamic deformation characteristics of undisturbed riverbed gravels. Yasuda, N., et al. [1996,eng] 50-4861
- Early Weichselian interstadial sediments at Härnösand, Sweden. García Ambrosiani, K., et al. [1992,eng] 50-2559
- Ecogeochemical investigations, Kola Peninsula: sulphur and trace element content in snow. Ayra, M., et al. [1995,eng] 50-4081
- Ecological controls on peatland methane emissions in discontinuous permafrost. Bubier, J.L., et al. [1995,eng] 50-2803
- Ecophysiology of a snow-bed moss during snowmelt. Woolgrove, C.E., et al. [1996,eng] 50-6748
- Effect of ethanol additives on odor detection of Alaskan gasolines. Zhao, X.H., et al. [1995,eng] 50-3393
- Effect of freezing of water samples on viable counts of environmental mycobacteria. Iivanainen, E., et al. [1995,eng] 50-1953
- Effect of mode of compaction on frost heave. Burns, J., [1977,eng] 50-2318
- Effect of river-ice break-up on suspended sediment and select trace-element fluxes. Milbrun, D., et al. [1994,eng] 50-5698
- Effects of acidification on plankton biomass in high mountain lakes. Engle, D., et al. [1995,eng] 50-2149
- Effects of moraine-bank sediment budgets on valley glacier stability. Hunter, L.E., et al. [1996,eng] 50-6263
- Effects of pack ice on Weddell Sea plankton distribution. Kaufmann, R.S., et al. [1995,eng] 50-4160
- Effects of sea ice cover on atmospheric methane over the Sea of Okhotsk. Lammers, S., et al. [1995,eng] 50-1147
- Effects of tree litter decomposition on forest soil composition. Harris, M.M., et al. [1996,eng] 50-3309
- Englaciation drainage influence on sediment transport pathways. Kirkbride, M., et al. [1996,eng] 50-6255
- Enhanced dating procedures for arctic Quaternary marine deposits. Goodfriend, G.A., et al. [1996,eng] 50-4580
- Enzymatic and morphological variations in arctic grasses. Aiken, S.G., et al. [1995,eng] 50-1068
- Erosion rates and sediment yields of glaciers. Bogen, J., [1996,eng] 50-6239
- Estimates of Greenland atmospheric impurity variations during deglaciation. Alley, R.B., et al. [1995,eng] 50-1872
- Estimates of North American tundra ecosystem biomass. Gilmanov, T.G., et al. [1995,eng] 50-4864
- Estimation of the autochthonous detritus flux through plankton communities of the Kara Sea. Lebedeva, L.P., et al. [1995,eng] 50-3541
- Evaluation of the changes in regional wintertime deposition in Finland during 1976-1993. Sovieri, J., et al. [1995,eng] 50-4956
- Evidence of Holocene sea level rise from Nova Scotian bottom sediments. Scott, D.B., et al. [1995,eng] 50-4528
- Evidence of mechanism for polar stratospheric cloud dehydration. Gaudrud, B.W., et al. [1990,eng] 50-6003
- Fall phytoplankton biomass: P-I relationships and primary production in the Weddell Sea. Dower, K.M., et al. [1996,eng] 50-4008
- Ferromanganese nodules of the Kara Sea. Bogdanov, I.U.A., et al. [1995,eng] 50-3547
- Field observations of sun crust formation in Hokkaido, Japan. Ozeki, T., et al. [1996,eng] 50-5500
- Fingerprinting hydrocarbons in the biological resources of the Exxon Valdez spill area. Bence, A.E., et al. [1995,eng] 50-3916
- Foraminiferal bottom sediment assemblages from West Antarctica. Chang, S.K., et al. [1995,eng] 50-3346
- Forest fire records inferred from Greenland ice core chemistry. Legrand, M., et al. [1996,eng] 50-3447
- Foraminifera in glaciomarine sediments of arctic fjords. Korsun, S.A., et al. [1995,eng] 50-939
- Fossil burrows of mammals in the loess-ice deposits of the Kolyma-Indigirka Lowland. Gubin, S.V., et al. [1996,eng] 50-4146
- Freeze-thaw effects on photoproduction of hydrogen peroxide in cloud waters. Arakaki, T., et al. [1995,eng] 50-1969
- Freshwater impact on Hudson bay ecosystems under sea ice, pt.3. Fortier, L., et al. [1996,eng] 50-4021
- Fungal hyphal length in litter of *Dryas octopetala* in high-arctic polar semi-desert. Svalbard. Robinson, C.H., et al. [1996,eng] 50-4010
- Further discussion on simulation of the modern arctic climate by the NCAR CCM1. Williamson, D.L., et al. [1996,eng] 50-6573
- Genetic diversity of an arctic/alpine herb species. Bauert, M.R., [1996,eng] 50-5493
- Genotoxicity of snow in the Montreal metropolitan area. White, P.A., et al. [1995,eng] 50-1567
- Geochemical analyses of Exxon Valdez oil spill. Bence, A.E., et al. [1996,eng] 50-6339
- Geochemical correlation between coarse and fine fractions of till in southern Finland. Tarvainen, T., [1995,eng] 50-2705
- Geochemical criterion for recognition of Pleistocene ice rafting events. Thomson, J., et al. [1995,eng] 50-1250
- Geochemistry of Lena River suspended sediments. Rachold, V., [1995,eng] 50-2095
- Glacial deposit geochemistry at a Manitoba mining site. Nielsen, E., et al. [1991,eng] 50-3911
- Glacial dispersal of mineralized bedrock mercury. Plouffe, A., [1995,eng] 50-882
- Glacial geology and petrography of erratics in Shackleton Range, Antarctica. Höffe, H.C., et al. [1995,eng] 50-1525
- Glacial-ice fragments in antarctic sea ice. Haas, C., et al. [1995,eng] 50-464
- Glacier properties on Mt. Qogir, Karakorum. Qin, D.H., et al. [1994,eng] 50-1538
- Glacier river water study in Austre Okstindbreen Basin. Theakstone, W.H., et al. [1994,eng] 50-5700
- Grading, degradation and compaction considerations in relation to specimen preparation. Hughes, R., [1977,eng] 50-2316
- Greenland atmospheric aerosol composition during a foehn. Kikuchi, K., et al. [1996,eng] 50-6216
- Groundwater flow through Ontario glacial deposits. Gerber, R.E., et al. [1996,eng] 50-6750
- Growth curves for calcium-tolerant lichens in the Canadian Rocky Mountains. McCarthy, D.P., et al. [1995,eng] 50-3330
- Halocarbon seasonal variations in the arctic troposphere. Yokouchi, Y., et al. [1996,eng] 50-5612
- Handling practice effects on soil sample chemistry. Hewitt, A.D., [1996,eng] 50-5962
- Heavy metal concentrations in peat profiles from the high Arctic. Headley, A.D., [1996,eng] 50-3721
- Hemispheric climate relations revealed by bottom sediment/ice core correlations. Charles, C.D., et al. [1996,eng] 50-6632
- Herb germination ecology in Yellowstone National Park. Romme, W.H., et al. [1995,eng] 50-2816
- High precision ²³⁵Th and ²³⁸Th in the Norwegian Sea and Denmark by thermal ionization mass spectrometry. Moran, S.B., et al. [1995,eng] 50-2022
- High-resolution ammonium ice core record covering a complete glacial-interglacial cycle. Fuhrer, K., et al. [1996,eng] 50-3448
- Historical records of fatty acids in an ice core from Site-1, Greenland. Kawamura, K., et al. [1995,eng] 50-3247
- Holocene glacial chronology in Patagonia: Tyndall and Upsala glaciers. Aniya, M., [1995,eng] 50-2806
- Holocene glacier variations in central Asia. Savoskul, O.S., et al. [1996,eng] 50-4372
- Holocene sediments of the Russian east-arctic seas. Iashin, D.S., et al. [1995,eng] 50-2104
- How AgI aerosol dispersion may effect cloud seeding detection. Warburton, J.A., et al. [1995,eng] 50-347
- Hydrobiological research in the Lena polynya. Gukov, A.I.U., [1995,eng] 50-2089
- Hydrochemical characteristics of the Kara Sea. Makkaveev, P.N., et al. [1995,eng] 50-3532
- Hydrochemical indicators of subglacial drainage system structure. Tranter, M., et al. [1996,eng] 50-6086
- Hydrochemical study of snow meltwater and snow cover. Suzuki, K., [1995,eng] 50-2404
- Hydrogen species partitioning in the arctic stratosphere. Schiller, C., et al. [1996,eng] 50-5766
- Hydrogeochemistry of Fraser River, British Columbia. Cameron, E.M., [1996,eng] 50-5815
- Hydrologic pathways in an alpine watershed. Mast, M.A., et al. [1995,eng] 50-2418
- Hydrology of a polythermal glacier, Erikbreen, northern Spitsbergen. Vainé, G., et al. [1995,eng] 50-3150
- Hydrology of Bregger Glacier, Spitsbergen. Kodama, Y., et al. [1995,eng] 50-3249

Sampling

- Ice forming nuclei in the high Arctic. Bigg, E.K., [1996,eng] 50-4317
- Ice sheet model test via glacial geological research in West Greenland. Van Tatenhove, F.G.M., et al., [1995,eng] 50-2013
- Ice-covered temperate lake limnology. Agbeti, M.D., et al., [1995,eng] 50-739
- Ice-wedge formation in northern Asia during the Holocene. Vasil'chuk, I.U.K., et al., [1996,eng] 50-6705
- Identification of fossil plant fragments in glaciers. Lindskog, A., et al., [1995,swe] 50-1470
- Implications of glacial deposit physical properties for radiocarbon dating. Karrow, P.F., [1992,eng] 50-2563
- Importance of the correction of precipitation measurements on the Tibetan Plateau. Ueno, K., et al., [1996,eng] 50-5775
- In situ measurements of BrO in the arctic stratosphere. Toohy, D.W., et al., [1990,eng] 50-6015
- In situ measurements of NO₂ in the Airborne Arctic Stratospheric Expedition. Carroll, M.A., et al., [1990,eng] 50-6011
- Inexpensive water collectors for study of surface water acidification during snowmelt. Gaskin, G.J., et al., [1995,eng] 50-1569
- Influence of forest fire aerosols on sampling of polar atmospheres. Polissar, A.V., et al., [1996,eng] 50-5206
- Influence of the growth mechanisms of snow particles on their chemical composition. Takahashi, T., et al., [1996,eng] 50-5610
- Inherent variability of frost heave specimens. Nicholls, R.A., [1977,eng] 50-2319
- Initial assessment of multi-scale measures of CO₂ and H₂O flux in the Siberian taiga. Hollinger, D.Y., et al., [1995,eng] 50-3810
- Initial snow chemistry survey of the Mogollon Rim in Arizona. Barbaris, B., et al., [1996,eng] 50-6711
- Injection profiling in the Kuparuk River Field, Alaska. Scott, H.D., et al., [1991,eng] 50-1741
- Inter-annual variability in marine coastal antarctic bacterioplankton. Delille, D., et al., [1996,eng] 50-4006
- Interaction between subglacial sediment and meltwater. Collins, D.N., [1996,eng] 50-6265
- Interpretation of nitric oxide profile observed in January 1992 over Kiruna. Kondo, Y., et al., [1996,eng] 50-6637
- Ion chemistry controls for a Chinese river. Williams, M.W., et al., [1995,eng] 50-2604
- Ion-induced nucleation around radon daughters in remote arctic maritime air. Bigg, E.K., [1996,eng] 50-4322
- Iron(II) in rainwater, snow, and surface seawater from a coastal environment. Zhuang, G.S., et al., [1995,eng] 50-979
- Isotope analysis of Arctic Ocean ice algae primary productivity. Hobson, K.A., et al., [1995,eng] 50-3359
- Isotope analysis of variable subarctic plant nutrient access. Michelsen, A., et al., [1996,eng] 50-5772
- Isotopic and ionic variations in glacier river water during three contrasting ablation seasons. Theakstone, W.H., et al., [1996,eng] 50-6085
- Isotopic chronologies of Chukchi Sea continental shelf sediment fluxes. Baskaran, M., et al., [1995,eng] 50-1805
- Labile dissolved forms of heavy metals in the Kara Sea waters. Kravtsov, V.A., et al., [1995,eng] 50-3534
- Laboratory technique for measurement of spectral induced polarization response of soil samples. Vanhaa, H., et al., [1995,eng] 50-2998
- Lake acidification during mountain snowmelt. Stoddard, J.L., [1995,eng] 50-4076
- Lake surface pollen sediments across the Siberian tree line. Clayden, S.L., et al., [1996,eng] 50-6746
- Laptev Sea organic carbon surface sediments. Stein, R., et al., [1995,eng] 50-2097
- Late Quaternary foraminiferal stratigraphy from western Svalbard. Lycke, A.K., et al., [1992,eng] 50-2557
- Late stage 5 glacio-isostatic sea in the St. Lawrence Valley, Canada and the United States. Occhietti, S., et al., [1996,eng] 50-4577
- Late Younger Dryas to Holocene palaeoenvironments of the southern Kattegat, Scandinavia. Conradsen, K., [1995,eng] 50-2861
- Late-glacial and early Holocene vegetation of Snowdonia. Ince, J., [1996,eng] 50-4254
- Late-glacial palynology of the Myrtaceae of southern Chile. Zhou, M.M., et al., [1996,eng] 50-4744
- Latest Quaternary foraminifers and sediment transport in Peruvets Canyon, Bering Sea. Starratt, S.W., [1995,eng] 50-3347
- Lead isotopic ratios in Greenland and antarctic snow and ice. Chisholm, W., et al., [1995,eng] 50-1256
- Lichen accumulation of airborne metals adjacent to a lead-zinc mine. Pilegaard, K., [1994,eng] 50-5604
- Links between proglacial stream sediments and glacier motion. Willis, I.C., et al., [1996,eng] 50-6091
- Lipid geochemistry of the Kara Sea bottom sediments. Beliaeva, A.N., et al., [1996,eng] 50-4867
- Liquefaction resistance of silty sand based on in situ frozen samples. Yoshimi, Y., et al., [1996,eng] 50-5080
- Literature review on decontaminating groundwater sampling devices; organic pollutants. Parker, L.V., [1995,eng] 50-729
- Long-range tropospheric transport of pollution aerosols into the Alaskan Arctic. Raatz, W.E., et al., [1984,eng] 50-4722
- Loss of ozone in the arctic vortex for the winter of 1989. Salawitch, R.J., et al., [1990,eng] 50-6027
- Low probability of east Antarctica Pliocene deglaciation. Warnke, D.A., et al., [1996,eng] 50-6628

- Low summer temperatures: a potential mortality factor for high arctic soil microarthropods? Coulson, S.J., et al., [1995,eng] 50-1178
- Magnetic climatology: mineral magnetism and the ice ages. Heller, F., et al., [1996,ger] 50-4743
- Major, minor, and trace element chemistry of surface waters in the Everest region of Nepal. Reynolds, B., et al., [1995,eng] 50-2434
- Mammoth extinction: two continents and Wrangel Island. Martin, P.S., et al., [1995,eng] 50-650
- Manganese and other trace elements in urban snow near an expressway. Loranger, S., et al., [1996,eng] 50-5776
- Marine ecology of the Laguna San Rafael (southern Chile): ice scour and opportunism. Davenport, J., [1995,eng] 50-1105
- Meadow ecology in the polar Urals, Russia. Gorchakovskii, P.L., et al., [1996,eng] 50-5482
- Measurements of Alaskan spring atmospheric ozone content. Beine, H.J., et al., [1996,eng] 50-6640
- Measurements of nitrogen oxides in the Arctic. Honrath, R.E., et al., [1990,eng] 50-6028
- Measurements of total reactive nitrogen during the Airborne Arctic Stratospheric Expedition. Kawa, S.R., et al., [1990,eng] 50-6009
- Megabenthic communities in the waters around Svalbard. Piepenburg, D., et al., [1996,eng] 50-6722
- Meltwater drainage patterns from alpine glaciers. Collins, D.N., [1995,eng] 50-2430
- Mercury and plastic in suspended Arctic Ocean sediment. Joinis, C.R., et al., [1995,eng] 50-1971
- Mesomorphologic soil formation in the cryogenic taiga semihumid sector of central Siberia. Ershov, I.U.I., [1995,eng] 50-2146
- Mesoplankton in the east Kara Sea and the Ob and Yenisey River estuaries. Vinogradov, M.E., et al., [1995,eng] 50-3539
- Mesoplankton of the west Kara Sea and the Baidara Bay. Vinogradov, M.E., et al., [1995,eng] 50-3538
- Metabolism of deep-sea sponges in the Greenland-Norwegian Sea. Witte, U., et al., [1996,eng] 50-6613
- Methane flux along a Siberian tundra transect. Christensen, T.R., et al., [1995,eng] 50-1334
- Methane plumes near Bear Island, Barents Sea. Lammers, S., et al., [1995,eng] 50-748
- Micro-scale patterns of modern pollen deposition within three alpine plant communities. Pardoe, H.S., [1996,eng] 50-4253
- Microbial activity of tundra and taiga soils at sub-zero temperatures. Clein, J.S., et al., [1995,eng] 50-2025
- Microbial life in permafrost: a historical review. Gilichinskii, D.A., et al., [1996,eng] 50-6701
- Microbial sea ice ecology at a coastal antarctic site. Archer, S.D., et al., [1996,eng] 50-5456
- Microplankton bloom dynamics in McMurdo Sound, Antarctica. Stoeker, D.K., et al., [1993,eng] 50-3394
- Microsporogenesis of the Siberian larch in western Siberian Zapolyar'e. Rozhdzestvenskii, I.U.F., et al., [1995,eng] 50-3966
- Midge emergence during thaw cycles of a subalpine lake. Sherck, T., et al., [1996,eng] 50-4504
- Minimum area and cover-abundance scales as applied to polar desert vegetation. Lévesque, E., [1996,eng] 50-5489
- Molecular and genetic diversity of arctic bedding plants. Abbott, R.J., et al., [1995,eng] 50-4093
- Mollusc population dynamics on the antarctic shelf ocean bottom. Brey, T., et al., [1993,eng] 50-3395
- Monitoring organic pollutants in the Arctic in 1992. Fellin, P., et al., [1996,eng] 50-4359
- Natural ice nucleus measurement under high supersaturation. Mizuno, H., et al., [1995,eng] 50-3719
- New radiocarbon dates for the Vedde ash and the Saksunarvatn ash from western Norway. Birks, H.H., et al., [1996,eng] 50-4576
- Nitric acid in polar stratospheric clouds. Pueschel, R.F., et al., [1990,eng] 50-5997
- Nitric oxide measurements in the arctic winter stratosphere. Fahey, D.W., et al., [1990,eng] 50-6010
- Nitrogen deposition and release in alpine watersheds, Loch Vale, Colorado, USA. Campbell, D.H., et al., [1995,eng] 50-2416
- Nitrogen fixation in arctic vegetation and soils from Svalbard, Norway. Solheim, B., et al., [1996,eng] 50-4007
- Nitrogen soil dynamics in an arctic lowland ecosystem. Chapin, D.M., [1996,eng] 50-4340
- Nitrous oxide emission from an agricultural soil subjected to different freeze-thaw cycles. Chen, Y., et al., [1995,eng] 50-5687
- No iridium anomaly after the 1908 Tunguska impact: evidence from a Greenland ice core. Rasmussen, K.L., et al., [1995,eng] 50-2741
- North Sea paleoenvironments during the last deglaciation. Knudsen, K.L., et al., [1996,eng] 50-6534
- Nuclear submarines and oceanography in the Arctic. DeLaca, T., et al., [1996,eng] 50-3931
- Nutrient and persistent pollutant deposition on the Bothnian Bay ice and snow fields. Rahm, L., et al., [1995,eng] 50-1650
- Nutrient availability in Alaskan upland forest sites. Yarie, J., et al., [1994,eng] 50-4798
- Nutrients in the Aral Sea in winter. Tsytsarin, A.G., [1995,eng] 50-5481
- O₂ and NO_x fluxes over snow measured by eddy correlation. Stocker, D.W., et al., [1995,eng] 50-2151
- Obtaining and transferring soils for in-vial analysis of volatile organic compounds. Hewitt, A.D., et al., [1996,eng] 50-4547
- Occurrence of an algal bloom under arctic pack ice. Gradinger, R., [1996,eng] 50-4159

- Occurrence of sub-ice algal aggregations off northeast Greenland. Gutt, J., [1995,eng] 50-163
- On a sampling error in halpand measurements. Wirth, E., et al., [1983,eng] 50-4638
- On the age of stratospheric air and inorganic chlorine and bromine release. Daniel, J.S., et al., [1996,eng] 50-6331
- On the concentrations of O₂, N₂, and Ar in trapped gases from ice cores. Bender, M., et al., [1995,eng] 50-633
- On the sedimentological character of alpine basal ice facies. Hubbard, B., et al., [1996,eng] 50-6259
- On the summer distribution of mesozooplankton in the Nansen Basin, Arctic Ocean. Mumm, N., [1991,ger] 50-3399
- Organic carbon variations in stream waters during snowmelt. Boyer, E.W., et al., [1995,eng] 50-2422
- Organic sedimentation in an arctic delta. Peulvé, S., et al., [1996,eng] 50-5819
- Origin of present-day antarctic precipitation from surface snow deuterium excess data. Clais, P., et al., [1995,eng] 50-636
- Origin of tropospheric ozone at remote high northern latitudes in summer. Mauzerall, D.L., et al., [1996,eng] 50-3449
- Overview of the Arctic Ocean Expedition of 1991 (IAOE-91). Leck, C., et al., [1996,eng] 50-4312
- Ozone deposition in a snow-covered subalpine spruce-fir forest environment. Zeller, K., et al., [1995,eng] 50-2394
- Ozone deposition in a subarctic woodland, pt.1. Munger, J.W., et al., [1996,eng] 50-6641
- Ozone layer concentration over the Weddell Sea. Elanskii, N.F., et al., [1995,eng] 50-6328
- Paleoclimatic change from Lake Baikal sediments. Edgington, D.N., et al., [1996,eng] 50-6633
- Paleoclimatic implications of Swedish lake-level fluctuations. Almquist-Jacobson, H., [1995,eng] 50-2716
- Paleoclimatic significance of a new Arctic Ocean foraminiferal fauna. Mullen, M.W., et al., [1995,eng] 50-3349
- Paleoclimatological implications of lacustrine ostracod ecology. Heaton, T.H.E., et al., [1995,eng] 50-2859
- Paleoclimatological import of Himalayan tree palynological samples. Nakagawa, T., et al., [1996,eng] 50-4745
- Paleoecology of Finnish lacustrine deposits. Sarmaja-Korjonen, K., [1995,eng] 50-4738
- Paleogeographical studies of permafrost in the eastern Taymyr lowland. Siebert, C., et al., [1995,eng] 50-2092
- Particle fluxes in the Kara Sea and Ob and Yenisey estuaries. Lisitsyn, A.P., et al., [1995,eng] 50-3543
- Particulate organic matter in Terra Nova Bay in summer 1990. Fabiano, M., et al., [1996,eng] 50-3702
- Peculiarities of diatom thanatocenoses formation in the sediments of the Eurasian arctic seas. Poliakova, E.I., [1995,eng] 50-2536
- Pelagic bryozoan from Antarctica. Peck, L.S., et al., [1995,eng] 50-1827
- Pelagic processes in the Norwegian and Greenland Seas. von Bodungen, B., et al., [1995,eng] 50-746
- Periodic variations in air-water gas exchange of Arctic Ocean insecticide pollutants. Jantunen, L.M., et al., [1995,eng] 50-1862
- Periphytic diatom assemblages from high arctic ponds. Douglas, M.S.V., et al., [1995,eng] 50-1460
- Permafrost soil thawing after forest fires. Swanson, D.K., [1996,eng] 50-5497
- Peroxide concentrations in the Dome Summit South ice core, Law Dome, Antarctica. van Ormen, T.D., et al., [1996,eng] 50-6327
- Pesticide degradation in an arctic lake and watershed. Falconer, R.L.M., et al., [1995,eng] 50-1131
- Phenotypic plasticity in leaves of four species of arctic *Festuca* (Poaceae). Ramasar-Forner, N.S., et al., [1995,eng] 50-3301
- Physical and geochemical properties across the Atlantic/Pacific water mass front in the southern Canadian Basin. McLaughlin, F.A., et al., [1996,eng] 50-2845
- Phytoplankton biomass and taxonomy around Elephant I. Vilafañe, V.E., et al., [1995,eng] 50-1826
- Plankton age variations in the Cooperation Sea. Budnichenko, E.V., [1994,eng] 50-868
- Plankton biomass in the Arctic Ocean. Timofeev, S.F., [1995,eng] 50-2086
- Plankton biomass variation in antarctic lakes. Bayliss, P.R., et al., [1995,eng] 50-1336
- Plankton bloom in a Greenland pingo. Kristiansen, J., et al., [1995,eng] 50-366
- Plankton blooms as evidence of Holocene climatic fluctuations. Thorsen, T.A., et al., [1995,eng] 50-2860
- Plankton dynamics in the Barents Sea marginal ice zone. Hansen, B., et al., [1996,eng] 50-3528
- Plankton ecosystems in the Norwegian and Greenland Sea. Samleb, C., et al., [1995,eng] 50-749
- Planktonic communities of melt ponds on the McMurdo Ice Shelf, Antarctica. James, M.R., et al., [1995,eng] 50-1282
- Planktonic DNA diversity in the Canadian high Arctic. Van Raay, T.J., et al., [1995,eng] 50-4092
- Plant communities of the Bol'soj Chyryk River Valley, Barguzinskij Range, East Siberia. Chytrý, M., et al., [1995,eng] 50-4950
- Plausible hydrological scenario for the Bølling-Allerød atmospheric methane increase. Kalin, R.M., et al., [1996,eng] 50-4376
- Pleistocene foraminifera in Arctic Ocean piston cores. Evans, J.R., et al., [1995,eng] 50-3348
- Pleistocene glaciation in northwestern British Columbia. Spooner, I.S., et al., [1995,eng] 50-4526

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Sampling

- Pleistocene glaciomarine isostatic rebound, Puget Lowland, Washington. Dethier, D.P., et al. [1995,eng] 50-1832
- Pleistocene paleosol development in northwest Alaska. Hoffe, C., et al. [1996,eng] 50-6517
- Polar stratospheric cloud event of January 24: part 2, photochemistry. Jones, R.L., et al. [1990,eng] 50-6022
- Polar stratospheric cloud event, 1989, pt.1. Poole, L.R., et al. [1990,eng] 50-6021
- Pollen assemblages from small Canadian arctic lakes. Gajewski, K., [1995,eng] 50-966
- Pre-analysis of soil organic compound holding times. Hewitt, A.D., [1996,eng] 50-5961
- Pre-Illinoian glacial stratigraphy in north-central Missouri. Rovey, C.W., III, et al. [1996,eng] 50-4585
- Preliminary results from POAM II: stratospheric ozone at high northern latitudes. Randall, C.E., et al. [1995,eng] 50-1213
- Primary production and chlorophyll in the Kara Sea in September 1993. Vedernikov, V.I., et al. [1995,eng] 50-3536
- Primary productivity and microbial variations in the Chukchi Sea. Cota, G.F., et al. [1996,eng] 50-5457
- Proceedings. International Symposium on Biogeochemistry of Seasonally Snow-covered Catchments, Boulder, CO, July 1-14, 1995. [1995,eng] 50-2391
- Processes controlling the chemistry of two snowmelt-dominated streams in the Rocky Mountains. Campbell, D.H., et al. [1995,eng] 50-2545
- Pu. ¹³⁷Cs and excess ²¹⁰Pb in Russian arctic sediments. Baskaran, M., et al. [1996,eng] 50-5606
- Radiocarbon dating evidence for mammoths on Wrangel Island, Arctic Ocean, until 2000 BC. Vartanian, S.L., et al. [1995,eng] 50-649
- Radiocesium tracer profiles on Arctic Ocean ice islands. Smith, J.N., et al. [1995,eng] 50-4560
- Reassessment of the Eurasian river input of water, sediment, major elements, and nutrients to the Arctic Ocean. Gordeev, V.V., et al. [1996,eng] 50-5693
- Recent air pollution variations inferred from Greenland ice sheet heavy metal concentrations. Candelone, J.P., et al. [1995,eng] 50-590
- Reconstruction of O₃ and N₂O fields from ER-2, DC-8, and balloon observations. Lait, L.R., et al. [1990,eng] 50-6017
- Redistribution of reactive odd nitrogen in the lower arctic stratosphere. Hubler, G., et al. [1990,eng] 50-6002
- Refractive-index measurements of natural air-hydrate crystals in an antarctic ice sheet. Uchida, T., et al. [1995,eng] 50-977
- Relation of snowpack chemistry to streamwater composition. Shanley, J.B., et al. [1995,eng] 50-2425
- Revegetation of shrub tundra in disturbed soils. Harper, K.A., et al. [1996,eng] 50-5490
- Review of sea ice density. Timco, G.W., et al. [1996,eng] 50-3823
- Rotifer ecology in high-altitude alpine sites. Jersabek, C.D., [1995,eng] 50-4163
- Rotifers from the Canadian High Arctic (Devon Island, Northwest Territories). De Smet, W.H., et al. [1995,eng] 50-4162
- Runoff composition in a bedrock catchment watershed. Clow, D.W., et al. [1995,eng] 50-2415
- Russian-German cooperation: Laptev Sea system. Kassens, H., ed. et al. [1995,eng] 50-2059
- Saharan dust recorded in Swiss alpine snow cover. Schwikowski, M., et al. [1995,eng] 50-778
- Sample representativeness: The missing element in explosives site characterization. Jenkins, T.F., et al. [1996,eng] 50-5960
- Sampling-rate effects on the properties of dye breakthrough curves from glaciers. Nienow, P.W., et al. [1996,eng] 50-4903
- Sand liquefaction strength obtained by in situ freezing. Hatanaka, M., et al. [1995,eng] 50-1179
- Scavenging rates affecting Arctic Ocean radionuclide distributions. Cochran, J.K., et al. [1995,eng] 50-4562
- Seasonal aerosol variability in the arctic marine boundary layer. Leck, C., et al. [1996,eng] 50-4320
- Seasonal and annual dynamics of frozen ground in the central highland of Iceland. Thórhallsdóttir, T.E., [1996,eng] 50-5499
- Seasonal cycle of C₂-C₃ hydrocarbons over the Baltic Sea and northern Finland. Laurila, T., et al. [1996,eng] 50-5607
- Seasonal variability in high mountain lake water chemistry. Wögrath, S., et al. [1995,eng] 50-4077
- Seasonal variations in antarctic sea ice brine chemistry. Gleitz, M., et al. [1995,eng] 50-1117
- Seasonal variations in arctic glacier sediment transport. Hodgkins, R., [1996,eng] 50-6253
- Sediment discharge from an Alaskan surging glacier. Merrand, Y., et al. [1996,eng] 50-6266
- Sediment transport by Laptev Sea ice. Reimnitz, E., et al. [1995,eng] 50-2072
- Sedimentary environment of the Laptev Sea: preliminary results of the TRANSDRIFT II Expedition. Dehn, J., et al. [1995,eng] 50-2100
- Sedimentary environments associated with glacial Lake Tringham, Norfolk, UK. Hart, J.K., [1992,eng] 50-2554
- Sedimentation and mixing rates of radionuclides in Barents Sea sediments off Novaya Zemlya. Smith, J.N., et al. [1995,eng] 50-4561
- Sequence types of Upper Quaternary deposits in the Kara Sea. Levitan, M.A., et al. [1996,eng] 50-3546
- Shoreline ecology program following the Exxon Valdez oil spill, pt.1. Page, D.S., et al. [1995,eng] 50-3921
- Shoreline ecology program following the Exxon Valdez oil spill, pt.2. Boehm, P.D., et al. [1995,eng] 50-3924
- Shoreline ecology program following the Exxon Valdez oil spill, pt.3. Gillfillan, E.S., et al. [1995,eng] 50-3925
- Shoreline impacts in the Gulf of Alaska region following the Exxon Valdez oil spill. Gillfillan, E.S., et al. [1995,eng] 50-3926
- Simple model to estimate atmospheric concentrations of aerosol chemical species based on snow core chemistry at Summit, Greenland. Bergin, M.H., et al. [1995,eng] 50-3097
- Snow and water chemistry of a headwater alpine basin, Urumqi River, Tian Shan, China. Liu, F.J., et al. [1995,eng] 50-2413
- Snow cover distribution on a Wyoming glacier. Elder, K., [1995,eng] 50-2438
- Snow surveying in Canada: a perspective. Goodison, B.E., et al. [1987,eng] 50-4907
- Snowmelt induced chemical changes in seven streams in the Sierra Nevada, California. Melack, J.M., et al. [1995,eng] 50-2414
- Snowpack evidence of air pollution in Lapland and the Kola Peninsula. Lindroos, A.J., et al. [1995,eng] 50-4955
- Soil geomorphology on Alaskan permafrost terrain. Swanson, D.K., [1996,eng] 50-6518
- Soil isotopic evidence of Quaternary atmospheric circulation variations in North America. Amundson, R., et al. [1996,eng] 50-2722
- Soil polygenesis as a function of Quaternary climate change, northern Great Basin, USA. Chadwick, O.A., et al. [1995,eng] 50-1831
- Soil-to-snow movement of synthetic organic compounds in natural snowpack. Hogan, A., et al. [1995,eng] 50-2403
- Solar particle origin for polar ice core nitrate anomalies. Zeller, E.J., et al. [1995,eng] 50-1184
- Solid phase extraction of nitroaromatics from water. Jenkins, T.F., et al. [1995,eng] 50-1977
- Solid phase sedimentation in the Barents Sea. Hulth, S., et al. [1996,eng] 50-6723
- Some lithological-geochemical features of modern bottom sediments of the Laptev Sea shelf. Iakovlev, A.V., [1995,eng] 50-2101
- Some surveys of snow chemistry in the Tien Shan of Kirghizistan and Kazakhstan. Kattelmann, R., et al. [1995,eng] 50-2411
- Source of summer arctic atmospheric aerosols. Maenhaut, W., et al. [1996,eng] 50-4321
- Sources of acidity in fresh snowfall elemental concentrations. Baisden, W.T., et al. [1995,eng] 50-2126
- Sources of organic carbon aerosols in the arctic atmosphere. Kawamura, K., et al. [1996,eng] 50-5611
- Spatial distribution of snow chemical load at the tundra-taiga transition. Pomeroy, J.W., et al. [1995,eng] 50-2412
- Spectrometric detection of chloride ions in snow. Vanchikova, E.V., et al. [1995,eng] 50-3791
- Spectrometry of Norwegian Sea water radioactive isotopes. Moran, S.B., et al. [1995,eng] 50-1186
- Spring-bloom time-series at the Bering Sea ice edge pt.1. Niebauer, H.J., et al. [1995,eng] 50-1031
- Spruce succession, disturbance, and geomorphology on the Tanana River floodplain, Alaska. Mann, D.H., et al. [1995,eng] 50-2159
- Stability of sublittoral, fine-grained sediments in a subarctic estuary. Amos, C.L., et al. [1996,eng] 50-4044
- Stable carbon isotope ratios in the waters of the Laptev Sea/Sep. 94. Erlenkeuser, H., et al. [1995,eng] 50-2082
- Stable isotopes as hydrologic tracers in South Cascade Glacier. Vaughn, B.H., [1994,eng] 50-5546
- Statistical analysis of lithology of Arctic Ocean sediments. Darby, D.A., et al. [1996,eng] 50-5025
- Statistical analysis of Thayer Hill Road heave data. Harr, M.E., et al. [1995,eng] 50-2030
- Stratigraphic detection of Greenland ice sheet chemical changes. Wolff, E.W., et al. [1995,eng] 50-584
- Stratospheric constituent trends from ER-2 profile data. Schoeberl, M.R., et al. [1990,eng] 50-6005
- Stratospheric ozone layer above Spitsbergen in winter 1989. Neuber, R., et al. [1990,eng] 50-5975
- Streamwater quality variations in a Colorado alpine environment. Caine, N., [1995,eng] 50-4189
- Studies of clean and sediment-laden ice in the Laptev Sea. Eicken, H., et al. [1995,eng] 50-2071
- Study of Bering Sea primary productivity. Sapozhnikov, V.V., et al. [1995,eng] 50-6687
- Study of the calcareous microfossils from Laptev Sea sediments. Bauch, H.A., et al. [1995,eng] 50-2102
- Subarctic lake pollution by gold mine arsenic effluent. Bright, D.A., et al. [1996,eng] 50-4207
- Subglacial chemical erosion in a Swiss mountain glacier. Brown, G.H., et al. [1996,eng] 50-6236
- Subglacial meltwater composition sampled through boreholes. Lamb, H.R., et al. [1995,eng] 50-2433
- Succession in the Hudson Bay lowland, northern Ontario, Canada. Klinger, L.F., et al. [1996,eng] 50-5491
- Sudden changes in arctic atmospheric aerosol concentrations during summer and autumn. Bigg, E.K., et al. [1996,eng] 50-4319
- Sulfide oxidation products in the antarctic atmosphere. Davison, B., et al. [1996,eng] 50-5615
- Sulfur hexafluoride—a powerful new atmospheric tracer. Maiss, M., et al. [1996,eng] 50-5608
- Supraglacial debris transport over time. Whalley, W.B., et al. [1996,eng] 50-6258
- Surface ozone at high latitudes. Theodorsen, A., et al. [1996,eng] 50-4871
- Surface sediment mineralogy of the Laptev Sea. Wahsner, M., [1995,eng] 50-2099
- Svalbard—field excursion in arctic marine biology, June 5-14, 1995. Weissenberger, J., ed. et al. [1995,eng] 50-1554
- Swedish forest production losses due to summer frost. Verwijst, T., et al. [1996,eng] 50-6753
- Symposium on Environmental Toxicology and Risk Assessment, 3rd, Atlanta, GA, Apr. 26-28, 1993. Exxon Valdez oil spill: fate and effects in Alaska waters. [1995,eng] 50-3914
- Tardigrada of the arctic tundra with descriptions of two new species. Maucchi, W., [1996,eng] 50-5293
- Tardigrades of the Taimyr peninsula with descriptions of two new species. Biserov, V.I., [1996,eng] 50-5294
- Taxonomic notes on recent benthic Foraminifera from Nansen Basin, Arctic Ocean. Wollenburg, J., [1992,ger] 50-3334
- Technique for high time resolution snowpack dating. Braten, D.A., [1995,eng] 50-776
- Tectonic records derived from petrology at a glacier fringe. Pavlis, T.L., et al. [1995,eng] 50-1833
- Temperature evolution of a chemically stratified lake. Spigel, R.H., et al. [1996,eng] 50-6333
- Terrestrial molluscs as indicators of global aeolian dust fluxes during glacial states. Rousseau, D.D., [1992,eng] 50-2552
- The presence of metastable HNO₃/H₂O solid phases in the stratosphere inferred from ER 2 data. Tabazadeh, A., et al. [1996,eng] 50-5254
- Thickness and ablation measurements of Fremont Glacier, Wyoming. Naftz, D.L., et al. [1993,eng] 50-4796
- Thickness of summer Arctic Ocean multiyear ice. Eicken, H., et al. [1995,eng] 50-2112
- Total hydrogen budget in the arctic winter stratosphere. Engel, A., et al. [1996,eng] 50-5767
- Total ozone during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990,eng] 50-5974
- Trace elements in the Weddell Sea water and sediments in the continental shelf area. Niemistö, L., et al. [1995,eng] 50-1952
- Tracing radioactive contamination in the Siberian Arctic. Sayles, F.L., et al. [1996,eng] 50-6668
- Transfer of European coastal pollution to the Arctic: radioactive tracers. Dahlgaard, H., [1995,eng] 50-1136
- Transfer of reprocessing wastes from north-west Europe to the Arctic. Kershaw, P., et al. [1995,eng] 50-4559
- Transient hydrogeological controls on the chemistry of a seepage lake. Krabbenhoft, D.P., et al. [1995,eng] 50-2730
- Tree regeneration in Colorado forest-tundra ecosystem. Weisberg, P.J., et al. [1995,eng] 50-3295
- Treeline/midge correlation, Northwest Territories, Canada. Walker, I.R., et al. [1995,eng] 50-3326
- Trichloroacetic acid in conifer needles and arboreal lichens in forest environments. Juuti, S., et al. [1996,eng] 50-4206
- Trophic structure of the benthos of the Lena polynya. Gukov, A.I.U., [1995,eng] 50-2090
- Two methods for the determination of lateral stress in sand. Hatanaka, M., et al. [1995,eng] 50-1180
- Two-year record of eolian sedimentation in the Wind River Range, Wyoming, U.S.A. Dahms, D.E., et al. [1996,eng] 50-5496
- Ultrafine aerosol presence in the arctic atmospheric boundary layer. Wiedensohler, A., et al. [1996,eng] 50-4316
- Ultraviolet radiation effects on arctic lake water organic chemistry. Scully, N.M., et al. [1996,eng] 50-5820
- Upland watershed hydrochemical response to acidification during snowmelt. Allan, C., [1995,eng] 50-5210
- Upward flushing of sea water through first year sea ice. Hudier, E.J.J., et al. [1995,eng] 50-4210
- Use of mussels to assess bioavailability of hydrocarbons from the Exxon Valdez oil spill. Shigenaka, G., et al. [1995,eng] 50-3920
- Use of sulfur-35 and tritium to study runoff from an alpine glacier, Wind River Range, Wyoming. Michel, R.L., et al. [1995,eng] 50-2437
- UV-B tolerance of alpine and arctic *Daphnia*. Zellmer, I.D., [1995,eng] 50-1972
- Variability in nutrient concentrations around Elephant Island, Antarctica, during 1991-1993. Silva, S. N., et al. [1995,eng] 50-941
- Vertical distribution of lichens on the mountain, Auccellabjerg, northeastern Greenland. Hansen, E.S., [1996,eng] 50-4344
- Vertical particle flux on the shelf off northern Spitsbergen, Norway. Andreassen, I., et al. [1996,eng] 50-6566
- Volcanic ash variations in the antarctic stratosphere. Anderson, J., et al. [1996,eng] 50-5613
- Volcanic stratospheric loading derived from Greenland ice core measurements. Zielinski, G.A., [1995,eng] 50-1331
- Vostok ice core deuteration variations over the last two glacial cycles. Waelbroeck, C., et al. [1995,eng] 50-4089
- Water chemistry and periphyton in an alpine wetland. Toetz, D., [1995,eng] 50-4161
- Weathering of aeolian dusts in alpine snows. Delmas, V., et al. [1996,eng] 50-4588
- Winter methane dynamics in a temperate peatland. Melloh, R.A., et al. [1996,eng] 50-6052
- Winter-summer differences of carbon dioxide and oxygen in the Weddell Sea surface layer. Hoppema, M., et al. [1995,eng] 50-3006
- Yearly cycle of lower tropospheric ozone at the Arctic Circle. Rummukainen, M., et al. [1996,eng] 50-5614
- Zooplankton of the Laptev Sea coastal waters. Petriashov, V.V., et al. [1995,eng] 50-2084

See [also]: Ice sampling

Sanding

Sanding

- Algorithm for optimizing road salting routes. Li, L.Y.O., et al. [1996,eng] 50-4011
- Alternative deicing chemicals research. Woodham, D. [1994,eng] 50-1072
- Emissions from antiskid materials applied to icy roadways. Phase 2. Kinsey, J.S., [1995,eng] 50-3939
- Service evaluation of light de-icing and snowplowing equipment. Girardin, M., [1995,eng] 50-4037
- Spreader of choice for Michigan's snow-bound Upper Peninsula. Haag, J., [1995,eng] 50-1086
- Using antiskid materials as road icing countermeasures. Miyamoto, S., et al. [1994,jpn] 50-2833
- Using sand and crushed rock as road icing countermeasures. Onuma, H., et al. [1995,jpn] 50-6795

Sands

- Aeolian facies belts in the Taklimakan Desert. Li, B.S., et al. [1995,eng] 50-4127
- Beach sedimentation on paraglacial coasts. Forbes, D.L., et al. [1995,eng] 50-1119
- Behavior of a sand in frozen and unfrozen states. Swan, C.W., [1996,eng] 50-6147
- Core preservation to aid arctic oil reservoir evaluation. MacGregor, K.W., et al. [1991,eng] 50-1740
- Corrosive aggressiveness of saline frozen ground with regard to steel (in the example of Yamal soil). Zykov, I.U.D., et al. [1995,rus] 50-2513
- Cryogenic state of soil in the cryolithozone (Yakutia). Gavril'ev, P.P., et al. [1996,rus] 50-6844
- Cryogenic structure of surface deposits in Central Yakutia. Konchenko, L.A., [1996,rus] 50-6378
- Cryolithological structure of Quaternary deposits on Wrangel Island. Kotov, A.N., et al. [1996,rus] 50-6379
- Deformation of frozen sandy soils with a cloddy structure during thawing. Shevchenko, L.V., et al. [1996,rus] 50-6832
- Dielectric properties of frozen saline sands. Frolov, A.D., et al. [1995,rus] 50-2508
- Effect of aging on the penetration resistance of sands. Joshi, R.C., et al. [1995,eng] 50-1823
- Effect of technogenic disturbances on the thermal regime of soils in Central Yakutia. Skriabin, P.N., et al. [1996,rus] 50-6394
- Elasticity of partially saturated frozen sand. Jacoby, M., et al. [1996,eng] 50-4323
- Electron scanning of Quaternary deposit grain shape. Molnár, B., et al. [1995,eng] 50-1040
- Evaluating the deformation and strength properties of frozen ground using an acoustic method. Zykov, I.U.D., et al. [1995,rus] 50-2504
- Experience in biological reclamation of alluvial sandy soils in the Lena River floodplain. Poklonnaia, L.V., [1994,rus] 50-299
- Experimental studies of the interaction of oil with cryogenic rocks. Ershov, E.D., et al. [1996,rus] 50-6823
- Forecasting deformation properties of thawing sandy soils according to data from compression tests. Gerasimov, A.S., et al. [1989,rus] 50-2300
- Freeze-thaw durability testing of oversanded bridge floor concrete. Ouyang, C.S., [1995,eng] 50-4949
- Heat transfer and frost-thaw penetration in soil surrounding an inclusion of sand. Peck, L., et al. [1995,eng] 50-726
- Hydraulic mining of permafrost placers by boreholes. Khrulev, A.S., [1991,eng] 50-1716
- Liquefaction resistance of silty sand based on in situ frozen samples. Yoshimura, Y., et al. [1996,eng] 50-5080
- Microstructural changes in frozen sandy soil under confining pressures. Ma, W., et al. [1995,chi] 50-5623
- Migration of water vapor across the boundary between snow cover and frozen soil. Golubev, V.N., et al. [1995,rus] 50-4111
- Morphoscopy and morphometry of quartz grains from loess and buried soil layers. Velichko, A.A., et al. [1995,eng] 50-1038
- Oil recovery from Alaskan tar sands using electromagnetic heating. Islam, M.R., et al. [1991,eng] 50-1760
- Paleoecological significance of Quaternary permafrost relics in arctic Canada. Murton, J.B., [1996,eng] 50-3645
- Paleoglacial events on Baffin Island, Labrador Sea. Fillon, R.H., et al. [1981,eng] 50-3621
- Preparation for excavation of frozen sands by using high frequency currents. Mal'kov, I.U.K., [1992,rus] 50-819
- Prospects for using solar energy technology in Transbaikalia. Zhelezniak, I.I., et al. [1993,rus] 50-110
- Results of experimental studies on resistance of thawing ground to a normal load. Torgashev, V.V., [1993,rus] 50-129
- Sand liquefaction strength obtained by in situ freezing. Hatanaka, M., et al. [1995,eng] 50-1179
- Sedimentary structures of cold-climate coastal dunes, eastern Hudson Bay, Canada. Ruz, M.H., et al. [1995,eng] 50-3862
- Source of Quaternary deposits at the foot of the West Kunlun Mountains, Xinjiang. Zhu, L.P., [1994,eng] 50-1539
- Stereo satellite image of sand particle transport in the Taklimakan Desert. Nagashima, H., [1991,jpn] 50-1433
- Strength characteristics of frozen sandy soil. Wu, Z.W., et al. [1995,eng] 50-4518
- Study of the technology of supplying sand by powerful bulldozers. Chemezov, N.N., [1992,rus] 50-805
- Transport of sand particles and dune shifting by wind in the Taklimakan Desert. Nagashima, H., [1991,jpn] 50-1431
- Transport of sand particles and dune shifting by wind in the Taklimakan Desert. Okumura, T., et al. [1991,jpn] 50-1432

- Two methods for the determination of lateral stress in sand. Hatanaka, M., et al. [1995,eng] 50-1180

Sanitary engineering

- Case history of a lined wastewater treatment lagoon failure. Merrill, K.S., et al. [1996,eng] 50-6150
- Cold regions utilities monograph. Third edition. Smith, D.W., ed., et al. [1996,eng] 50-6424
- Demonstrating brine water wells and toilets for Deering, Alaska. Lundell, R.H., [1996,eng] 50-6153
- Life cycle cost analysis of a Storburn propane combustion toilet. Ritz, P., et al. [1996,eng] 50-6175
- Parasitic protozoans in North Slope drinking water. Pollen, M.R., et al. [1996,eng] 50-6148
- Remote monitoring and technical support for drinking water systems in remote communities. Smith, D.W., et al. [1996,eng] 50-6152
- Wastewater treatment facility aeration project. Eddy, G.L., [1996,eng] 50-6149

Sapropel

- Experience in biological reclamation of alluvial sandy soils in the Lena River floodplain. Poklonnaia, L.V., [1994,rus] 50-299
- Moisture transfer, water-soluble substances and structural transformation during freezing. Brovka, G.P., et al. [1996,rus] 50-6821
- Phyto-reclamation of technologically disturbed lands. Valeeva, E.I., [1994,rus] 50-293

Sapropel

- Forecasting the composition of post-lacustrine meadows in the Yakutsk Arctic. Bosikov, N.P., [1991,rus] 50-1310

SAR

See [also]: Synthetic aperture radar

Sastrugi

- Albedo on snow surface in Patriot Hills, Antarctica. Shinohara, M., et al. [1995,eng] 50-4384
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Ice sheet surface features between 80 and 90S, along 90W. Yoshikawa, K., [1995,eng] 50-4386
- Physically based model of the form drag associated with sastrugi. Andreas, E.L., [1995,eng] 50-237
- Snow hardness variations in Patriot Hills. Harada, K., et al. [1995,eng] 50-4387

Satellites

See [also]: Spacecraft

Satellites (natural)

- Compaction tests to simulate icy satellite regolith physics. Leliwa-Kopystyński, J., et al. [1995,eng] 50-5200
- Cryovolcanism on the icy satellites. Kargel, J.S., [1994,eng] 50-1860
- Electrolytical processes in dirty planetary ices. Drobyshvskii, E.M., et al. [1995,eng] 50-655
- Erosion on Titan: past and present. Lorenz, R.D., et al. [1996,eng] 50-5832
- First observational evidence for condensation of Io's SO₂ atmosphere on the nightside. Buratti, B.J., et al. [1995,eng] 50-2154
- Infrared spectroscopy of organics of planetological interest at low temperatures. Khanna, R.K., [1995,eng] 50-656
- Laboratory infrared spectra (2.3-23 μm) of SO₂ phases: applications to Io surface analysis. Nash, D.B., et al. [1995,eng] 50-1463
- Laboratory studies of astrophysical ices. Dissly, R.W., [1994,eng] 50-680
- Light flash and ionization from hypervelocity impacts on ice. Burchell, M.J., et al. [1996,eng] 50-6530
- Meteorites as time markers on antarctic blue ice fields. Benoit, P.H., [1995,eng] 50-1408
- Near-infrared absorption coefficients of solid nitrogen as a function of temperature. Tryka, K.A., et al. [1995,eng] 50-1078
- O₂ on Ganymede: spectral characteristics and plasma formation mechanisms. Calvin, W.M., et al. [1996,eng] 50-4256
- Origin and thermal evolution of icy satellites. Coradini, A., et al. [1995,eng] 50-1069
- Photochemistry of Triton's atmosphere and ionosphere. Krasnopolsky, V.A., et al. [1995,eng] 50-2121
- Radiometry of icy Jovian satellites. Tamppari, L.K., et al. [1995,eng] 50-637
- Satellite regolith frozen ground collapse as solar system geological paradigm. Moore, J.M., et al. [1996,eng] 50-6588
- Seasonal nitrogen cycles on Triton and Pluto. Hansen, C.J., [1994,eng] 50-682
- SO₂ distributions on Io. Sartoretti, P., et al. [1996,eng] 50-6529
- Spectra of mixed ices on Io. Dahmani, R., et al. [1996,eng] 50-6071
- Spectral albedos of Charon's surface composition. Roush, T.L., et al. [1996,eng] 50-4002
- Sputtering of ices in the outer solar system. Johnson, R.E., [1996,eng] 50-5296
- Sputtering of water ice surfaces and the production of extended neutral atmospheres. Shi, M., et al. [1995,eng] 50-2774
- State of SO₂ on Io's surface. Kerton, C.R., et al. [1996,eng] 50-4257
- Titan's surface: composition and variability from the near-infrared albedo. Coustenis, A., et al. [1995,eng] 50-2031
- Volcanic and tectonic history of Enceladus. Kargel, J.S., et al. [1996,eng] 50-3864

Saturation

- Development and stability of preferential flow paths in a layered snowpack. Schneebeli, M., [1995,eng] 50-2402

Scanning electron microscopy

- Discussion of paper by Aavik and Chandra. Mather, B., et al. [1995,eng] 50-4501
- Distribution of water in hailstones. Chylek, P., et al. [1984,eng] 50-4495
- Effects of nutrient availability on arctic sedge growth. Gebauer, R.L.E., et al. [1995,eng] 50-2540
- Elasticity of partially saturated frozen sand. Jacoby, M., et al. [1996,eng] 50-4323
- Flame spread over fuel-spilled and/or snow-covered asphalt road. Ishida, H., et al. [1996,eng] 50-4230
- Forecasting service life of frost-penetrated concrete. Fagerlund, G., [1996,eng] 50-4788
- Heat transfer in an ice-water saturated porous medium. Zhang, X.L., [1993,eng] 50-5782
- Indirect assessment of frost susceptibility. Hurt, K.G., [1977,eng] 50-2327
- Low temperature effects on saturated fibrous polymer composites. Starzhetskaia, T.A., et al. [1996,eng] 50-4005
- Mixed-phase cloud scheme based on a single prognostic equation. Tremblay, A., et al. [1996,eng] 50-6665
- Noctilucent clouds and the thermal structure near the arctic mesopause in summer. Lübken, F.J., et al. [1996,eng] 50-5453
- Periodic water saturation of ice wedges: results of an oxygen-18 and deuterium study. Lauriol, B., et al. [1995,fre] 50-667
- Physical properties governing groundwater flow in a glacial till catchment. Hinton, M.J., et al. [1993,eng] 50-3693
- Predicting brick frost resistance. Il. Robinson, G.C., et al. [1995,eng] 50-1961
- Saturated cemented porous material permeability during freezing. Kralj, B., et al. [1996,eng] 50-5024
- Seasonal freezing and soil erosion during snowmelt. Demidov, V.V., et al. [1995,eng] 50-2714
- Seasonal frost mounds of arctic beaches. Tuktoyaktuk Peninsula, Northwest Territories. Campeau, S., et al. [1995,fre] 50-4882
- Self healing of high strength concrete after deterioration by freeze/thaw. Jacobsen, S., et al. [1996,eng] 50-3725
- Self healing of high strength concrete after deterioration by freeze/thaw. Jacobsen, S., et al. [1996,eng] 50-3725
- SEM observations of the microstructure of frost deteriorated and self-healed concretes. Jacobsen, S., et al. [1995,eng] 50-3701
- Temperature effects on porous solid capillary functions. Grant, S.A., et al. [1996,eng] 50-5965
- Water movement in wet snow. Gray, J.M.N.T., [1996,eng] 50-3727
- Water vapor saturation at low altitudes around Mars aphelion: a key to Mars climate? Clancy, R.T., et al. [1996,eng] 50-5831
- Winter effects on hydraulic conductivity of compacted clay—discussion. Day, R.W., et al. [1996,eng] 50-5207
- See [also]: Supersaturation

Scandinavia

- Correlation of glacial episodes in Poland and Scandinavia. Lindner, L., et al. [1995,eng] 50-2611
- On the definition of stratigraphical division boundaries in the Quaternary for the Scandinavian glaciated areas. Mojski, J.E., [1995,eng] 50-2610

Scanning electron microscopy

- Anisotropy in the adsorption of H₂O at low coordination sites on Pt(111). Morgenstern, M., et al. [1996,eng] 50-6199
- Arctic fungi: classification and structural analysis. Currah, R.S., et al. [1996,eng] 50-4264
- Arctic plant chloroplast adaptation to low temperatures. Miroslavov, E.A., et al. [1996,eng] 50-6756
- Classification uncertainties within foraminifera species in McMurdo Sound, Antarctica. Bowser, S.S., et al. [1995,eng] 50-3345
- Cryo-ultramicrotomy of individual latex particles for examination of internal morphology. Marcelli, A.M., [1995,eng] 50-4958
- Effects of freeze-thaw cycles on the properties of a sensitive clay. Roy, M., et al. [1995,fre] 50-581
- Effects of plant cellular tissue structure on freezing tolerance. Fujikawa, S., et al. [1996,eng] 50-5675
- Electric field effects on growing ice surface force curves. Slaughterbeck, C.R., et al. [1996,eng] 50-5939
- Electron cryo-microscopy of graphite in amorphous ice. Bötcher, B., [1995,eng] 50-1647
- Electron microscopy of frozen pea leaf cellular microstructure. Kaneko, Y., et al. [1996,eng] 50-5252
- Electron scanning of Quaternary deposit grain shape. Molnár, B., et al. [1995,eng] 50-1040
- Electron-beam-induced amorphization of ice III or IX obtained by high-pressure freezing. Sartori, N., et al. [1996,eng] 50-6531
- Electron-beam-induced amorphization of ice III or IX obtained by high-pressure freezing. Sartori, N., et al. [1996,eng] 50-6531
- Freeze preparation of plant tissue for electron microscopy. Adler, K., et al. [1996,eng] 50-5485
- Glacial crushing, weathering and diagenetic histories of quartz grains. Mahaney, W.C., [1995,eng] 50-3595
- Grass photosynthesis variations under cold climatic conditions. Siutkina, A.V., et al. [1996,eng] 50-6754
- Ice/metal interfaces: fracture energy and fractography. Wei, Y., et al. [1996,eng] 50-5243
- Late Quaternary sediments of the Qinghai-Xizang Plateau. Frenzel, B., et al. [1994,ger] 50-4779

Scattering

Sea ice

- Late-glacial palynology of the Myrtaceae of southern Chile. Zhou, M.M., et al. [1996,eng] 50-4744
- Mechanism of formation of nanocrystalline hematite prepared by freeze-drying. Bermejo, E., et al. [1995,eng] 50-4289
- Microscopy of xylem ray supercooling wood tissues response to freezing stress. Ristic, Z., et al. [1995,eng] 50-3341
- Microstructural changes in frozen sandy soil under confining pressures. Ma, W., et al. [1995,chi] 50-5623
- Paleoclimatological import of Himalayan tree palynological samples. Nakagawa, T., et al. [1996,eng] 50-4745
- Pleistocene glacier thicknesses inferred from electron microscopy of till microtextures. Mahaney, W.C., [1995,eng] 50-3365
- Results of black ice inhibiting filler use on asphalt test sections. Arand, W., [1995,ger] 50-2841
- Rheology of water ices V and VI. Durham, W.B., et al. [1996,eng] 50-3450
- Rock-weathering by the lichen *Lecidea auriculata* in an arctic alpine environment. McCarroll, D., et al. [1995,eng] 50-416
- Scanning electron microscopy of free water in frozen plant tissues. Yaklich, R.W., et al. [1996,eng] 50-5209
- Sedimentary environments associated with glacial Lake Tringham, Norfolk, UK. Hart, J.K., [1992,eng] 50-2554
- SEM observations of the microstructure of frost deteriorated and self-healed concretes. Jacobsen, S., et al. [1995,eng] 50-3701
- Snow crystal imaging using scanning electron microscopy: I. Precipitated snow. Rango, A., et al. [1996,eng] 50-4566
- Snow crystal imaging using scanning electron microscopy: II. Metamorphosed snow. Rango, A., et al. [1996,eng] 50-4567
- Spectroscopic damage to hydrated specimens in vitreous ice. Leapman, R.D., et al. [1995,eng] 50-1648
- Tardigrades of the Taimyr peninsula with descriptions of two new species. Biserov, V.I. [1996,eng] 50-5294
- Taxonomic notes on recent benthic Foraminifera from Nansen Basin, Arctic Ocean. Wollenburg, J., [1992,ger] 50-3334
- Vitrification of articular cartilage by high-pressure freezing. Studer, D., et al. [1995,eng] 50-6589
- Water in lichens at subzero temperatures. Schroeter, B., et al. [1995,eng] 50-2842
- X-ray analysis of ion distribution in frozen salt droplets. Orlovich, D.A., et al. [1995,eng] 50-6590
- See [also]: Electron microscopy
- Scattering**
- Acoustic wave perturbations within the Barents Sea Polar Front. Lynch, J.F., et al. [1996,eng] 50-4590
- Analysis of interference effects on surface-impedance mapping of glacier thickness. Thiel, D.V., et al. [1996,eng] 50-4889
- Analysis of spatial reverberation statistics in the central Arctic. LePage, K., et al. [1996,eng] 50-5191
- Application of passive microwave retrieval algorithms to monitor global snow cover. Armstrong, R.L., et al. [1992,eng] 50-3562
- Comparison of ice-sheet satellite altimeter retracking algorithms. Davis, C.H., [1996,eng] 50-2703
- Global identification of snowcover using SSM/I measurements. Grody, N.C., et al. [1996,eng] 50-2704
- Helium atom scattering study of water adsorption on the NaCl(100) single crystal surface. Bruch, L.W., et al. [1995,eng] 50-412
- Internal and basal ice changes near the grounding line derived from radio-echo sounding. Uratsuka, S., et al. [1996,eng] 50-4895
- Measuring geophysical parameters of the Greenland ice sheet using airborne radar altimetry. Ferraro, E.J., et al. [1995,eng] 50-1881
- Microwave emission from density-stratified antarctic firm at 6 cm wavelength. West, R.D., et al. [1996,eng] 50-4892
- Microwave imaging of Labrador Sea thin sea ice. Collins, M.J., et al. [1996,eng] 50-2701
- Passive microwave remote sensing of snow: volume scattering in antarctic firm. Tsang, L., et al. [1995,eng] 50-4181
- Polarimetric detection of objects buried in snowpack by a synthetic aperture FM-CW radar. Yamaguchi, Y., et al. [1996,eng] 50-2700
- Radar observation of ice crystal orientation in thunderstorms. Caylor, J.J., et al. [1996,eng] 50-5684
- Relation between scattering coefficient and radiation flux over land-fast sea ice. Barber, D.G., et al. [1995,eng] 50-1816
- Retrieval of cloud liquid water and precipitation from polarized microwave simulations. Bauer, P., et al. [1992,eng] 50-229
- Retrieval of thin ice thickness from multifrequency polarimetric SAR data. Kwok, R., et al. [1995,eng] 50-349
- Size parameters of snow grains in scattering and emission models. Jin, Y.Q., [1995,eng] 50-4179
- Snow mass in boreal forests derived from a modified passive microwave algorithm. Foster, J.L., et al. [1995,eng] 50-3718
- Sound reflection from ice cover. Kudrashov, V.M., [1996,eng] 50-4627
- Sputtering of water ice surfaces and the production of extended neutral atmospheres. Shi, M., et al. [1995,eng] 50-2774
- Theoretical basis for passive microwave remote sensing of cirrus. Evans, K.F., et al. [1992,eng] 50-3565
- Theory of inelastic x-ray scattering by phonons in ice. Johansson, P., [1996,eng] 50-6329
- Time dependence of dislocation arrays in ice during recrystallization. van der Elken, J., et al. [1996,eng] 50-6346
- Transition from normal to fast sound in liquid water. Sette, F., et al. [1996,eng] 50-5710
- Universal multifractal scaling of synthetic aperture radar images of sea-ice. Falco, T., et al. [1996,eng] 50-5685
- Waveform model for surface and volume scattering from ice and snow. Newkirk, M.H., et al. [1996,eng] 50-3886
- See [also]: Backscattering; Light scattering; Neutron scattering
- Scavenging**
- Acid pollutants in air and precipitation/deposition at the Sudeten Mountains, Poland. Kmiec, G., et al. [1995,eng] 50-4954
- Acid precipitation in Hokkaido (Part 2). Tani, A., et al. [1995,jpn] 50-6739
- Airborne hydrogen peroxide measurements in supercooled clouds. Snider, J.R., et al. [1995,eng] 50-2114
- Arctic Ocean radioactive isotope distribution and transport. Scholten, J.C., et al. [1995,eng] 50-4563
- Arctic wasteland: a perspective on arctic pollution. Davis, N., [1996,eng] 50-5838
- Cations within glacier ice, snow and river water at Xidatan coal mine. Huang, C.L., et al. [1995,chi] 50-5641
- Chemical composition of acid snowfall in northern part of Hokkaido. Satoh, F., et al. [1996,jpn] 50-6727
- Deposit of atmospheric biphenyls in the Canadian Arctic. Gregor, D., et al. [1996,eng] 50-6521
- Deposition around a coal-fired power station during a winter-time precipitation event. Jylha, K., [1995,eng] 50-4953
- Deposition of semivolatile organic chemicals by snow. Franz, T.P., Jr., [1994,eng] 50-372
- Effect of acid snow and acid rain on the soils and others in Niigata Prefecture. Taguchi, Y., et al. [1996,jpn] 50-5801
- Genotoxicity of snow in the Montreal metropolitan area. White, P.A., et al. [1995,eng] 50-1567
- Heterogeneous interactions of stratospheric aerosols. Abbott, J.P.D., [1996,eng] 50-6512
- Hydrological processes contributing to nitrogen leaching. Lepistö, A., [1996,eng] 50-5599
- Interaction of peroxytrinitric acid with solid H₂O ice. Li, Z.J., et al. [1996,eng] 50-4350
- Isotopic tracers for investigating hydrological processes. Cooper, L.W., et al. [1996,eng] 50-4846
- Manganese and other trace elements in urban snow near an expressway. Loranger, S., et al. [1996,eng] 50-5776
- Model of arctic air pollution by sulfur aerosols. Dastoor, A.P., et al. [1996,eng] 50-5450
- Obscuration in smoke and snow. Hutt, D.L., [1990,eng] 50-733
- On the formation of electron depletions at the summer polar mesopause. Klostermeyer, J., [1996,eng] 50-3600
- Physicochemical properties and partitioning of organochlorine compounds in air and water. Falconer, R.L.M., [1994,eng] 50-688
- Positive ion depletion in a noctilucent cloud. Balsiger, F., et al. [1996,eng] 50-3604
- Reactivity of imidazoles in pulse and γ -irradiated liquid and frozen systems. Kalecińska, E., et al. [1996,eng] 50-3527
- Saharan dust recorded in Swiss alpine snow cover. Schwikowski, M., et al. [1995,eng] 50-778
- Scavenging of electrons and radicals in frozen chloride-alcohol glasses. Kalecińska, J., [1996,eng] 50-3526
- Scavenging of gases during growth of ice crystals. Santachiara, G., et al. [1995,eng] 50-2470
- Scavenging rates affecting Arctic Ocean radionuclide distributions. Cochran, J.K., et al. [1995,eng] 50-4562
- Snow scavenging effects on large-area smoke screens. Slota, J.R., et al. [1991,eng] 50-764
- Snow scavenging on the winter battlefield. Slota, J.R., et al. [1990,eng] 50-735
- Sorption of nonpolar organic vapors by ice and snow. Hoff, J.T., et al. [1995,eng] 50-644
- Study on the actual conditions of acid snow in Hokuriku District. Yoshikawa, S., [1992,jpn] 50-3133
- Use of aroclins as a hydrogen sulfide scavenger in multiphase production. Howell, J.J., et al. [1991,eng] 50-1704
- Scintillation**
- Datasets of the scintillation experiment at Seville. New Mexico. Otto, W.D., et al. [1996,eng] 50-3849
- Fluxes of momentum and heat measured at Seville. New Mexico. Hill, R.J., et al. [1996,eng] 50-3850
- Results of the millimeter-wave instrument operated at Seville. New Mexico. Otto, W.D., et al. [1996,eng] 50-5666
- Sea air interaction**
- See [also]: Air water interactions
- Sea clutter**
- Detection of radar targets in sea-ice clutter. Lin, C.P., et al. [1996,eng] 50-5895
- Sea current gages**
- See [also]: Flow measurement
- Sea currents**
- See [also]: Ocean currents
- Sea floor**
- See [also]: Ocean bottom
- Sea ice**
- ¹³C and ¹⁵N uptake by phytoplankton in the marginal ice zone of the Bellingshausen Sea. Bury, S.J., et al. [1995,eng] 50-1028
- Acoustic response to variations of water and ice characteristics. Gavrilov, A.N., et al. [1995,eng] 50-5736
- Acoustics probe sea-ice mechanics. Rajan, S.D., [1996,eng] 50-6675
- Algae populating drifting sea ice in Antarctica. Ligowski, R., [1989,pol] 50-2928
- Algorithm for simulating wave propagation through sea ice. Blackowiak, A.D., et al. [1995,eng] 50-1644
- Antarctic circumpolar wave in surface pressure, wind, temperature and sea-ice extent. White, W.B., et al. [1996,eng] 50-4213
- Antarctic geography. Siple, P.A., [1956,eng] 50-6095
- Antarctic journal of the United States, vol.29, no.1. [1994,eng] 50-139
- Antarctic snow and ice sciences glossary. Japanese Society of Snow and Ice. Polar Snow and Ice Branch Committee (Nihon seppyo gakkai Kyokuchi seppyo bunkakai iinkai), [1982,jpn] 50-339
- Application of synthetic aperture radar (SAR) imagery on antarctic glaciology. Takahashi, A., et al. [1995,jpn] 50-4553
- Arctic Centre news, 1993, No.2. [1993,eng] 50-3598
- Arctic Ocean—a special natural cryogenic system. Danilov, I.D., [1996,rus] 50-6374
- Arctic oceanography; the path of North Atlantic Deep Water. [1994,eng] 50-976
- Asymptotic stability of the viscous-plastic sea ice rheology. Schulkes, R.M.S.M., [1996,eng] 50-4534
- At the center of scientists' attention—problems of biology in northern seas. Matishov, G.G., [1995,rus] 50-4304
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Atmospheric heat budget seasonal variations in 1988. Okada, I., et al. [1995,eng] 50-2581
- Autumnal sea ice biota in polar seas. Hoshiai, T., et al. [1996,eng] 50-6031
- Biodiversity of gas vacuolate bacteria from antarctic sea ice and water. Gosink, J.J., et al. [1995,eng] 50-864
- Biogenic emission of organobromine compounds to the Arctic Ocean and atmosphere. Sturges, W.T., et al. International Conference on Natural-Produced Halogens, Delft, The Netherlands, 1995. Edited by A. Grimwell and E.W.B. de Leer, [1995,eng] 50-4825
- Biogenic hydrocarbons in particulate material of the Belling-shausen Sea marginal ice zone. Cripps, G.C., [1995,eng] 50-1025
- Biological CO₂ pump in seasonally ice-covered waters. Legendre, L., [1996,eng] 50-6033
- Borehole penetration and expansion devices for ice testing. Ladanyi, B., [1996,eng] 50-5048
- Buoy installation and operation in Terra Nova Bay. Cucinotta, A., et al. [1994,eng] 50-4284
- C-band radar backscatter from antarctic first-year sea ice. 1. Jeffries, M.O., et al. [1995,eng] 50-6506
- C-band radar backscatter from antarctic first-year sea ice. 2. Morris, K., et al. [1995,eng] 50-6507
- Calculation of spectral albedo for a melt pond. Makshas, A., et al. [1995,eng] 50-2066
- Centrifuge modeling and numerical simulation of ice scour. Yang, Q.S., et al. [1996,eng] 50-5936
- Characteristics of sound reflected from sea ice. Aleksandrov, I.A., et al. [1995,eng] 50-3153
- Chemistry of water and ice from Drake Passage and the Belling-shausen Sea. Turner, S.M., et al. [1995,eng] 50-1024
- Chlorophyll *a*, suspended organic carbon and silicon in the sea ice of Admiralty Bay. Mel'nikov, I.A., [1993,rus] 50-920
- Climate simulations with a global atmosphere-ocean model, pt.1. Lunkeit, F., et al. [1996,eng] 50-4090
- Comments and reply on paper of Venkatesh et al. Marko, J.R., et al. [1995,eng] 50-601
- Computational modelling of brittle ice fragmentation. Tuhkuri, J., [1996,eng] 50-5942
- Contribution of fast-ice algae to the spring phytoplankton bloom in Ellis Fjord. McMin, A., [1996,eng] 50-5271
- Crack nucleation in saline ice with interacting inhomogeneities. Wu, M.S., et al. [1995,eng] 50-1142
- Crack velocities in freshwater and saline ice. Petrenko, V.F., et al. [1996,eng] 50-5299
- Creep of saline ice at low stresses and high temperatures. Richter-Menge, J.A., et al. [1995,eng] 50-179
- Cycling around the South Pole. Yuan, X.J., et al. [1996,eng] 50-4211
- Decadal oscillations driven by the annual cycle in a zonally-averaged coupled ocean-ice model. Yang, J.Y., et al. [1996,eng] 50-3069
- Definition of the loading regime on offshore structures from drifting ice covers. Bekker, A.T., et al. [1996,eng] 50-4463
- Determination of the ice strength for calculation of the ice load. Bekker, A.T., et al. [1996,eng] 50-4462
- Development of a Baltic Sea ice climate model. Leppäranta, M., et al. [1994,eng] 50-3202
- Development of the original ice borehole jack. Masterson, D.M., et al. [1996,eng] 50-5051
- Device for towing a seismographic bar in ice-covered seas. Sokolov, I.I., et al. [1989,rus] 50-1658
- Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al. [1996,eng] 50-4766
- Disposition of solar radiation in sea ice and the upper ocean. Ebert, E.E., et al. [1995,eng] 50-572
- Dissolved organic matter in arctic sea ice. Thomas, D.N., et al. [1995,eng] 50-717
- Doppler electromagnetic analysis of ice cover gravity wave oscillations. Vdovichenko, S.P., [1996,eng] 50-5703
- Drifted snow affects momentum exchange over sea ice. Andreas, E.L., et al. [1994,eng] 50-2220
- Dynamic impact between a viscoelastic ice floe and a rigid structure. Morland, L.W., [1996,eng] 50-3824

Sea ice

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- Ecology and physiology of psychrophilic bacteria from antarctic saline lakes and sea-ice. Nichols, D.S., et al. [1995,eng] 50-4086
- Ecosystem of the sea ice in Antarctica. Rakus-Suszczewski, S., [1989,pol] 50-2875
- Effect of sea ice frost flowers on infrared surface observations. Martin, S., et al. [1996,eng] 50-5858
- Effect of sea ice on the salinity of antarctic bottom waters. Toggweiler, J.R., et al. [1995,eng] 50-336
- Effect of sea ice surface features on radar backscatter. Ulander, L.M.H., et al. [1995,eng] 50-1813
- Effects of floating ice cracks on propagation of flexural waves. Bukatov, A.E., et al. [1996,eng] 50-3410
- Effects of individual ridging events on the ice thickness distribution in the arctic ice pack. Hopkins, M.A., [1996,eng] 50-3828
- Effects of solar radiation variations on ice age initiation. Ledley, T.S., et al. [1995,eng] 50-1254
- Electromagnetic induction sounding of sea ice thickness. Kovacs, A., et al. [1996,eng] 50-4959
- Environment and ecosystems of Novaya Zemlya; the archipelago and shelf. Matishov, G.G., ed. [1995,rus] 50-5145
- Estimating sea ice thickness from impulse radar sounding time of flight data. Kovacs, A., et al. [1992,eng] 50-61
- Evaluation of surface radiative flux parameterizations for use in sea ice models. Key, J.R., et al. [1996,eng] 50-3451
- Expedition ANTARKTIS-XI/3 of *Polarstern* in 1994. Miller, H., et al. [1996,ger] 50-4325
- Expedition ARKTIS-VII/3 of RV *Polarstern* in 1990. Miller, H., et al. [1996,ger] 50-4326
- Expedition ARKTIS-XI/2 of RV *Polarstern* in 1995. Krause, G., ed. [1996,eng] 50-5104
- Exploration of the Arctic Ocean by means of floating scientific stations. Männik, R., [1989,eng] 50-2930
- Failure of columnar saline ice under biaxial compression. Schulson, E.M., et al. [1995,eng] 50-2119
- Fatty acid adaptation in an antarctic bacterium—changes in primer utilization. Nichols, D.S., et al. [1996,eng] 50-4797
- Field observations of microwave backscatter from Weddell Sea ice. Lytle, V.I., et al. [1996,eng] 50-3148
- Flow properties of crushed ice. Singh, S.K., et al. [1995,eng] 50-2999
- Formation and evolution of the surface mixed layer and halocline of the Arctic Ocean. Rudels, B., et al. [1996,eng] 50-5261
- Formation and morphology of ice stalactites observed under deforming lead ice. Perovich, D.K., et al. [1995,eng] 50-452
- Glacial-ice fragments in antarctic sea ice. Haas, C., et al. [1995,eng] 50-464
- Grain multiplication mechanism for sea ice transition zone formation. Wei, Y.C., et al. [1995,eng] 50-1143
- Grain structure of first year sea ice in a Greenland fjord. Johnston, M., et al. [1995,eng] 50-2965
- Gulf Canada probabilistic ice load model: operation and parametric sensitivity study. Watson, D.A., et al. [1995,eng] 50-1413
- Heat flux through Weddell Sea ice cover. Lytle, V.I., et al. [1996,eng] 50-5263
- High frequency acoustic response of sea ice to single load cycles: a preliminary analysis. Langhorne, P.J., et al. [1995,eng] 50-2940
- High resolution study of the platelet ice ecosystem in McMurdo Sound. Arrigo, K.R., et al. [1995,eng] 50-2522
- Hydrocarbons in antarctic ice algae. Fogelqvist, E., et al. International Conference on Natural-Produced Halogens, Delft, The Netherlands, 1995. Edited by A. Grimwall and E.W.B. de Leer. [1995,eng] 50-4824
- Ice algae biomass variations around Zhongshan Station. He, J.F., et al. [1995,chi] 50-3642
- Ice algal investigations: historical perspective. Horner, R.A., [1996,eng] 50-6030
- Ice conditions and navigability of the NSR-vessels: present and future. Schwarz, J., [1996,eng] 50-4491
- Ice impact tests on *Nathaniel B. Palmer*. St. John, J.W., et al. [1995,eng] 50-860
- Ice tank tests on pressure ridge formation. Lensu, M., et al. [1995,eng] 50-4582
- Ice-core analysis for sea-ice development in Ross, Amundsen and Bellingshausen seas, 1993 and 1994 winters. Jeffries, M.O., et al. [1995,eng] 50-6503
- Icebergs. Allison, I., [1996,eng] 50-4991
- ICESSTAR: a spaceborne ice and coastal environment surveillance system. Cavalieri, D.J., et al. [1996,eng] 50-4482
- Impingement of surface waves on the edge of compressed ice. Bukatov, A.E., et al. [1995,eng] 50-4214
- Improved detection of acoustic sources in ice-ridging ocean environment. Zala, C.A., et al. [1995,eng] 50-1461
- Improved use of passive microwave data for sea ice detection. Heygster, G.C., et al. [1992,eng] 50-225
- Influence of ice conditions on NSR transit sailing. Vefsnmo, S., et al. [1996,eng] 50-4459
- Information booklet on the Arctic and Antarctic Research Institute (Russia). Mustafin, N.V., [1993,eng] 50-19
- Inorganic carbon uptake by an antarctic sea-ice diatom, *Nitzschia frigida*. Mitchell, C., et al. [1996,eng] 50-3404
- Inorganic nutrients in the marginal ice zone of the Bellingshausen Sea in spring. Whitehouse, M.J., et al. [1995,eng] 50-1023
- Interaction between multiple line plumes: a model study with applications to leads. Ching, C.Y., et al. [1996,eng] 50-4408
- Interpretation of in situ borehole ice strength measurement tests. Masterson, D.M., [1996,eng] 50-5049
- Intrasecular changes in ice conditions and conditions for ice navigation in the 20th century. Zakharov, V., et al. [1996,eng] 50-4481
- Investigation of sea ice shear properties. Zanegin, V.G., et al. [1990,eng] 50-101
- Investigation of the general circulation of the Arctic Ocean using an isopycnal model. Holland, D.M., et al. [1996,eng] 50-3822
- JAMSTEC coupled model of arctic sea-ice and ocean. Kakuta, S., et al. [1996,eng] 50-4478
- Japan Meteorological Agency sea ice terms. Japan Meteorological Agency. Marine Meteorology Department (Kishocho Kaiyo kishobu). [1975,jpn] 50-407
- Large-scale loading and collapse of natural sea ice and natural-artificial ice laminates. Lichtenberger, G.J., [1991,eng] 50-1718
- Life cycle of *Paralabidocera antarctica* at Showa Station. Tanimura, A., et al. [1996,eng] 50-6414
- Life forms in antarctic sea ice. Dahms, H.U., [1992,ger] 50-646
- Marine snow in antarctic coastal waters. Marchant, H.J., et al. [1996,eng] 50-6034
- Mathematical model of synoptic variation in drifting ice cover due to atmospheric factors. Zuev, A.N., [1992,rus] 50-1264
- Mechanics of marine screw propeller ice cutting processes. Veitch, B., [1995,eng] 50-4154
- Method of calculating the breakup of ice cover. Khvedynich, S.V., [1992,rus] 50-1265
- Method to calculate pack ice driving forces. Evgin, E., et al. [1995,eng] 50-1283
- Microalgal light-harvesting in McMurdo Sound. Robinson, D.H., et al. [1995,eng] 50-106
- Microbial biology of melting Weddell Sea ice. Gleitz, M., et al. [1996,eng] 50-5677
- Model of drag forces on sea ice bottom surfaces. Pite, H.D., et al. [1995,eng] 50-2740
- Model of ductile behavior of columnar grained sea ice. Zhan, C., et al. [1996,eng] 50-5184
- Modeling the heating and melting of sea ice through light absorption by microalgae. Zeebe, R.E., et al. [1996,eng] 50-2844
- Modelling of continuous crushing of ice in front of offshore structures. Brown, T.G., et al. [1995,eng] 50-575
- Morphology and morphogenesis of a new species of protozoa in sea ice. Petz, W., [1994,eng] 50-2584
- Naturalist's guide to the Arctic. Pielou, E.C., [1994,eng] 50-3804
- Neoglobodina pachyderma* distribution in the sea ice of Lützow-Holm Bay. Igarashi, A., et al. [1996,eng] 50-6036
- Nonlinear acoustic effects due to cracks in ice cover. Ekimov, A.E., et al. [1996,eng] 50-5291
- Northern Sea Route: its development and evolving state of operations in the 1990s. Mulherin, N.D., [1996,eng] 50-4960
- Nutrient and persistent pollutant deposition on the Boothian Bay ice and snow fields. Rahm, L., et al. [1995,eng] 50-1650
- Nutrients in the Aral Sea in winter. Tsytsarin, A.G., [1995,eng] 50-5481
- Observation of momentum and heat transfers between ocean and atmosphere in the Chukchi Sea. Sasaki, Y., et al. [1996,eng] 50-4479
- Observations on a plug of old sea ice in the entrance to Nansen Sound, Ellesmere Island. Sadler, H.E., et al. [1981,eng] 50-46
- Occurrence of an algal bloom under arctic pack ice. Gradinger, R., [1996,eng] 50-4159
- Occurrence of net phytoplankton between Elephant I. and the southern passages. Koczyńska, E.E., et al. [1989,pol] 50-2927
- Offshore structure and installation method. Waddell, J.W., [1995,eng] 50-3479
- On the generation of internal waves beneath sea ice by a moving load. Duffy, D.G., [1996,eng] 50-3825
- On the ice-ocean response to wind forcing. Omstedt, A., et al. [1996,eng] 50-6666
- Overview of recent program on mechanical properties of sea ice. Cole, D.M., et al. [1995,eng] 50-1842
- Palmer ecological research program. Smith, R.C., et al. [1995,eng] 50-5944
- Parameterization of surface albedo for sea ice and its snow cover. Barry, R.G., [1996,eng] 50-5014
- Particle model for quasibrittle fracture and application to sea ice. Jirásek, M., et al. [1995,eng] 50-495
- Plankton at the ice-water interface. Delille, D., et al. [1995,eng] 50-165
- Polar hydrocarbon technologies: future developments. Yates, J., et al. [1995,eng] 50-5446
- Pollution of natural ice in the Arctic and its indications. Ivanov, A.V., [1989,rus] 50-2301
- Potential resistance of the Kara Sea ice cover. Gavrilov, V.P., et al. [1995,eng] 50-185
- Preliminary application of Canadian ice regime system to the Northern Sea Route. Jones, S.J., et al. [1996,eng] 50-4429
- Preliminary results from fatigue tests on in situ sea ice beams. Haskell, T.G., et al. [1996,eng] 50-5469
- Probability of sea level rise. Titus, J.G., et al. [1995,eng] 50-5783
- Proceedings of the NIPR Symposium on Polar Biology, No.9. Hirasawa, T., ed. NIPR Symposium on Polar Biology, 17th, Tokyo, Dec. 7-9, 1994. [1996,eng] 50-6029
- Proceedings of the NIPR Symposium on Polar Meteorology and Glaciology, No.9. Watanabe, O., ed. NIPR Symposium on Polar Meteorology and Glaciology, 17th, Tokyo, July 13-14, 1994. [1995,eng] 50-2574
- Proceedings. Workshop on Future Directions in Snow and Ice Research. Gallatin Gateway, MT, Oct. 3-4, 1995. [1995,eng] 50-4623
- Project I: natural conditions and ice navigation. Lövås, S.M., [1996,eng] 50-4434
- Radar design for geophysical sounding. Oswald, G.K.A., [1992,eng] 50-64
- Radiation risk. Buckley, P.G., et al. [1990,eng] 50-1204
- Radionuclide distribution in the marginal ice zone in the Bellingshausen Sea. Shimmield, G.B., et al. [1995,eng] 50-1029
- Recent climate variability in the vicinity of the Antarctic Peninsula. King, J.C., [1994,eng] 50-2994
- Recruitment and variability in antarctic krill. Siegel, V., et al. [1995,eng] 50-164
- Reduced Laurentide meltwater outflow. de Vernal, A., et al. [1996,eng] 50-5523
- Relation between scattering coefficient and radiation flux over land-fast sea ice. Barber, D.G., et al. [1995,eng] 50-1816
- Remote sensing for global change, climate change and atmosphere & ocean forecasting. European "International Space Year" Conference, Munich, Germany, 30 March-4 April 1992. [1992,eng] 50-219
- Remote sensing of arctic sea ice using the ERS-1 SAR. Askne, J., et al. [1992,eng] 50-223
- Response of a circular ice floe to ocean waves. Meylan, M.H., et al. [1996,eng] 50-5264
- Results of the studies of natural deformations of sea ice fields. Smirnov, V.N., et al. [1990,eng] 50-96
- Review of sea ice density. Timco, G.W., et al. [1996,eng] 50-3823
- River-coastal sea ice interaction model: Mackenzie River Delta. Searcy, C., et al. [1996,eng] 50-5265
- Saline ice sheet surface scattering with controlled roughness parameters. Bredow, J.W., et al. [1995,eng] 50-982
- Salinity tolerance of planktonic foraminifers in sea ice. Spindler, M., [1996,eng] 50-6035
- SCAR report No.11, Feb. 1996. Scientific Committee on Antarctic Research. [1996,eng] 50-5803
- Science news from The Ice: highlights from the 1994-1995 austral summer. Simarski, L., [1995,eng] 50-6500
- Sea ice and snow thickness in antarctic seas, winter 1993-94. Jeffries, M.O., et al. [1995,eng] 50-6504
- Sea ice data report. Kovacs, A., et al. [1970,eng] 50-3854
- Sediment transport by Laptev Sea ice. Reimnitz, E., et al. [1995,eng] 50-2072
- Sedimentation at a tidewater glacier in Arthur Harbor. Ashley, G.M., et al. [1994,eng] 50-2223
- Sediments from the southern Weddell Sea. Melles, M., et al. [1995,eng] 50-5442
- Singularities in simulation of ice sheet-solid impact regime. Darr, D.G., et al. [1995,eng] 50-2163
- Snow cover on winter sea ice of Amundsen and Ross seas. Sturm, M., et al. [1995,eng] 50-6505
- Solution and stability of natural convective snow in a melt puddle. Bogorodskii, P.V., [1995,eng] 50-2067
- Specialized ice information for planning sea operations along the NSR. Brovin, A.J., et al. [1996,eng] 50-4428
- Status of a Weddell Sea foraminifer. Berberich, D., [1996,ger] 50-3867
- Storm surges in Canadian waters. Murty, T.S., et al. [1995,eng] 50-1854
- Strain net and ice flow monitoring of Hells Gate ice shelf. Bondesan, A., et al. [1995,eng] 50-4392
- Stresses in sea ice in the neighboring force interaction zone. Nikitin, V.A., et al. [1995,eng] 50-5522
- Structure of microphytoplankton assemblages. Froneman, P.W., et al. [1995,eng] 50-1324
- Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savel'ev, B.A., [1963,rus] 50-3832
- Study of brash ice in the proximal marine zone of a sub-polar tidewater glacier. Smith, N.D., et al. [1996,eng] 50-6224
- Study of the morphology of a discontinuous section of a first year arctic pressure ridge. Bowen, R.G., et al. [1996,eng] 50-3829
- Submarine topographical chart around Filchner-Ronne Ice Shelf. Vaughan, D.G., et al. [1995,eng] 50-5443
- Summer plankton beneath the McMurdo Ice Shelf at White I. Knox, G.A., et al. [1996,eng] 50-3403
- Surface morphology and backscattering of ice-ridge sails in the Baltic Sea. Manninen, A.T., [1996,eng] 50-4899
- Surface radiation budget, Svalbard and Antarctica, 1987. Yamanouchi, T., et al. [1995,eng] 50-2580
- Surface-based studies of microwave arctic sea ice signatures during end of summer and early autumn. Darovskikh, A.N., [1995,eng] 50-2065
- Suspended particulates and plankton during retreat of the marginal ice zone in the Bellingshausen Sea. Robins, D.B., et al. [1995,eng] 50-1026
- Taxonomy and ecology of the ciliate fauna of the Weddell Sea. Petz, W., et al. [1995,eng] 50-2582
- Temporal changes in shelf water of the southern Ross Sea. Hellmer, H.H., et al. [1994,eng] 50-2692
- Temporal evolution of under ice reflectivity. Laible, H.A., et al. [1996,eng] 50-4591
- Ultraviolet radiation in the southern seas in early spring 1993. Wendler, G., et al. [1994,eng] 50-4241

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- Uniaxial constant compressive stress creep tests on sea ice. Sinha, N.K., et al. [1995,eng] 50-3000
- United States Navy operational oceanographic nowcast/forecast system. Durham, D.L., [1994,eng] 50-5176
- Universal multifractal scaling of synthetic aperture radar images of sea-ice. Falco, T., et al. [1996,eng] 50-5685
- Use of ERS-1 SAR data in numerical sea ice modeling. Lepäntä, M., et al. [1992,eng] 50-222
- Variability of arctic sea ice along the Northern Sea Route. Ono, N., [1996,eng] 50-4477
- Water column and sea-ice primary production during Austral spring in the Bellingshausen Sea. Boyd, P.W., et al. [1995,eng] 50-1027
- Wave-pancake ice interactions. Shen, H.H., et al. [1994,eng] 50-2221
- Winter investigations in the Ross, Amundsen and Bellingshausen seas, 1993-1995. Jaffa Obregón, R., et al. [1995,spa] 50-2583
- World of snow and ice. Kotliakov, V.M., [1994,rus] 50-1420
- Sea ice distribution**
- 1990 arctic sea ice reduction related to snow cover minima. Serreze, M.C., et al. [1995,eng] 50-773
- 1993 biennial report. University of Washington. College of Ocean & Fisheries Science. Applied Physics Laboratory, [1993,eng] 50-5203
- 1994/95 winter ice in the Baltic Sea between the Ems and the Oder rivers. Strübing, K., [1995,ger] 50-4535
- Abstracts. International Symposium on Okhotsk Sea and Sea Ice, 11th. Mombetsu, Hokkaido, Japan, Feb. 25-28, 1996, [1996,eng] 50-5872
- Airborne imaging microwave radiometer—part I: radiometric analysis. Collins, M.J., et al. [1996,eng] 50-4763
- Algorithm to enhance sea ice concentration estimates from radiometric brightness temperatures. St. Germain, K.M., et al. [1992,eng] 50-3564
- Analysis of coastal ice cover using ERS-1 SAR data. Leshkevich, G., et al. [1995,eng] 50-1822
- Antarctic sea ice analysis, 1991-1992. Naval Polar Oceanography Center, Naval Ice Center, [1992,eng] 50-444
- Arctic and Antarctic Research Center: support for research during 1994-1995. Whittner, R.H., et al. [1995,eng] 50-6502
- Arctic and environmental change. Wadhams, P., ed. et al. [1995,eng] 50-5226
- Arctic Pilot Project integrated route analysis. Chapter 2. Physical aspects of the route areas. [1981,eng] 50-3558
- Arctic sea ice decreases related to wind variations. Maslanik, J.A., et al. [1996,eng] 50-6511
- Arctic sea ice extent and thickness. Wadhams, P., [1995,eng] 50-5235
- Atmospheric circulation and sea ice extent in the west Antarctic Peninsula area. Harangozo, S.A., [1994,eng] 50-2992
- Automatic ice motion retrieval from ERS-1 SAR images using the optical flow method. Sun, Y., [1996,eng] 50-5824
- Barents Sea ice concentration from SSM/I data. Smith, D.M., [1996,eng] 50-6695
- Biogeochemical study in the Bellingshausen Sea: overview of the STERNA 1992 expedition. Turner, D.R., et al. [1995,eng] 50-1021
- Build-up, decay and role of the sea-ice cover of the Liefdefjord, NW Spitsbergen. King, L., et al. [1994,ger] 50-1596
- C-band backscatter measurements of winter sea-ice in the Weddell Sea, Antarctica. Drinkwater, M.R., et al. [1995,eng] 50-1817
- Charting movement of sea ice by satellite. Carsey, F., [1995,eng] 50-715
- Classification of arctic cloud and sea ice features in multi-spectral satellite data. Key, J.R., [1994,eng] 50-4357
- Climate and ice-snow cover. Peng, G.B., et al. [1992,chi] 50-1168
- Climate change and biological oceanography of the Arctic Ocean. Gradinger, R., [1995,eng] 50-5233
- Climatic atlas of Labrador Sea seasonal ice concentration. Wang, J., et al. [1991,eng] 50-5259
- Coastal environments of the western Kara and eastern Barents Seas. Pirman, S.L., et al. [1995,eng] 50-4558
- Comparing simulated glacial climate and paleodata: a reexamination. Broccoli, A.J., et al. [1996,eng] 50-4398
- Comparison of monthly sea ice simulation models. Wu, X.R., et al. [1996,eng] 50-5451
- Comparison of second-order classifiers for SAR sea ice discrimination. Barber, D.G., et al. [1993,eng] 50-1446
- Comparisons between the Okhotsk Sea and the Baltic Sea ice. Shirasawa, K., et al. [1996,eng] 50-5904
- Competing roles of heat and freshwater flux in forcing thermohaline oscillations. Pierce, D.W., et al. [1995,eng] 50-598
- Coupled ice-ocean-atmosphere model of the Bering Sea. Hedstrom, K.S., [1995,eng] 50-6310
- Cryospheric observing systems and data management. Barry, R.G., [1994,eng] 50-3415
- Decrease in the equilibrium line of glaciers in the European Arctic during the Pleistocene. Grosveld, M.G., et al. [1972,rus] 50-540
- Deep water formation in the Greenland Sea. Pawlowicz, R.A., et al. [1996,eng] 50-6669
- Demonstration of operational sea-ice monitoring in the Baltic Sea with ERS-1 SAR. Herland, E.A., et al. [1995,eng] 50-1820
- Demonstration project to supply near real time sea ice information. Blackford, C., et al. [1994,eng] 50-1516
- Design of an Airborne Imaging Microwave Radiometer. Paul, J.L., et al. [1992,eng] 50-3570
- Detecting new-ice in the arctic from multispectral satellite data. Martin, T., et al. [1992,eng] 50-224
- Detection of radar targets in sea-ice clutter. Lin, C.P., et al. [1996,eng] 50-5895
- Development of a regional climate model of the western Arctic. Lynch, A.H., et al. [1995,eng] 50-597
- Development of an ice information system (IIS) to be implemented at the NERSC. Jacob, A., [1995,eng] 50-2742
- Diffusive coefficients of arctic sea-ice motion estimate through SAR. Kakuta, S., et al. [1996,eng] 50-5893
- Distributed mass/discrete floe model for predicting pack ice motion. Matsuzawa, T., et al. [1996,jpn] 50-5886
- Distribution of seasonal net production of sea ice on the Arctic Ocean. Kakuta, S., et al. [1996,eng] 50-5894
- Doppler observations of Bering Sea ice edge ocean circulation. Okkonen, S., et al. [1995,eng] 50-1032
- Drift ice off Hokkaido. [1992,jpn] 50-486
- Eastern Canadian Arctic at ca. 6 ka BP: a time of transition. Williams, K.M., et al. [1995,eng] 50-1450
- Eddy formation in the polar frontal zone of the Barents Sea. Kostianoi, A.G., et al. [1992,rus] 50-1262
- Effect of sea ice distribution on atmospheric circulation models. Grötzner, A., et al. [1996,eng] 50-5864
- Effects of sea ice cover on atmospheric methane over the Sea of Okhotsk. Lammers, S., et al. [1995,eng] 50-1147
- Eight-year time series radiometric measurement of snow and sea ice covers. Ferraro, R.R., et al. [1996,eng] 50-5769
- Encyclopedia of climate and weather. [1996,eng] 50-4973
- Environment and research in Greenland and Jameson Land. Di Cesare, F., et al. [1994,ita] 50-2819
- Expedition ARKTIS X/I of the research vessel *Polarstern* in 1994. Fahrbach, E., ed. [1995,ger] 50-3157
- Expert system for automated interpretation of ground penetrating radar data. Lee, S., et al. [1992,eng] 50-62
- Extraction of deformation descriptors from spaceborne radar ice motion products. Li, S., et al. [1995,eng] 50-1812
- Fluctuations of thin ice area in the Sea of Okhotsk. Enomoto, H., [1996,jpn] 50-5897
- Foraminiferal evidence for Greenland environmental change. Jennings, A.E., et al. [1995,eng] 50-6079
- Freshwater impact on Hudson Bay ecosystems under sea ice, pt.1. Ingram, R.G., et al. [1996,eng] 50-4019
- Fuzzy classification of earth terrain covers using complex polarimetric SAR data. Du, L., et al. [1996,eng] 50-4018
- GCM response to an antarctic polynya. Glowienka-Hense, R., [1995,eng] 50-3100
- Global environmental change: the northern North Atlantic. Schäfer, P., et al. [1995,eng] 50-745
- Global sea-ice—upper-ocean model: some preliminary results. Fichefet, T., et al. [1993,eng] 50-4821
- Greenland Sea ice variations recorded by spaceborne photography. Mitchelson-Jacob, E.G., [1996,eng] 50-4292
- Heat flux from leads in pack ice from a Landsat TM image. Lindsay, R.W., [1994,eng] 50-5179
- High resolution observations of Weddell Sea surface currents using ERS-1 SAR sea-ice motion vectors. Thomas, J.P., et al. [1995,eng] 50-1819
- High-latitude climate change with an atmospheric coupled sea ice model. Washington, W.M., et al. [1996,eng] 50-6055
- Hydrometeorology in Antarctica in 1985. Savitskii, G.B., [1992,rus] 50-145
- Ice buoy tests of Barents Sea tidal motions. Pease, C.H., et al. [1995,eng] 50-2776
- Ice conditions along the North-East Passage in view of ship trafficability studies. Riska, K., [1995,eng] 50-198
- Ice conditions in the Greenland waters, 1957. [1967,eng] 50-1231
- Ice conditions in the Greenland waters, 1958. [1967,eng] 50-1232
- Ice conditions in the Greenland waters, 1959. [1968,eng] 50-1233
- Ice conditions in the Greenland waters, 1960. [1964,eng] 50-1234
- Ice conditions in the Greenland waters, 1961. [1965,eng] 50-1235
- Ice conditions in the Greenland waters, 1962. [1968,eng] 50-1124
- Ice conditions in the Greenland waters, 1963. [1970,eng] 50-1125
- Ice conditions in the Greenland waters, 1964. [1971,eng] 50-1236
- Ice conditions in the Greenland waters, 1966. [1981,eng] 50-1257
- Ice conditions in the Greenland waters, 1968. [1983,eng] 50-1258
- Ice conditions in the Greenland waters, 1974. [1985,eng] 50-1259
- Ice conditions in the Greenland waters, 1975. [1982,eng] 50-1260
- Ice conditions in the Greenland waters, 1976. [1982,eng] 50-1126
- Ice conditions in the Greenland waters, 1977. [1983,eng] 50-1127
- Ice conditions in the Greenland waters, 1978. [1985,eng] 50-1128
- Ice conditions in the Greenland waters, 1979. [1985,eng] 50-1129
- Ice conditions in Zalew Szczecinski (Stettiner Haff) during the winter 1994/95. Schmelzer, N., et al. [1995,eng] 50-4536
- Ice conditions off Greenland. Fabricius, J.S., et al. [1959,dan] 50-406
- Ice dynamics in the south-western Laptev Sea as derived from ERS-1 SAR images. Kolatschek, J., et al. [1995,eng] 50-2063
- Ice studies on the northern Sakhalin offshore. Truskov, P.A., et al. [1995,eng] 50-6316
- Ice-ocean seasonal cycle and climate response in Hudson Bay. Soucier, F.J., et al. [1995,eng] 50-5931
- Ice-sheet growth and high-latitudes sea-surface temperature. Berger, A., et al. [1996,eng] 50-5862
- Ice-thermal regime at front deltas of rivers of the Laptev Sea. Nalimov, I.U.V., [1995,eng] 50-2070
- Ice/snow thickness measuring system. Tank, C.L., et al. [1995,eng] 50-716
- Iceberg detection using ERS-1 synthetic aperture radar. Willis, C.J., et al. [1996,eng] 50-5225
- Iceberg observations and estimation of submarine ridges in the western Weddell Sea. Viehoff, T., et al. [1995,eng] 50-1818
- Iceberg-structure interaction probabilities for design. Fuglem, M., et al. [1996,eng] 50-5052
- Improved segmentation of sea ice in radiometric imagery. Simpson, J.J., et al. [1995,eng] 50-3494
- Improved use of passive microwave data for sea ice detection. Heygster, G.C., et al. [1992,eng] 50-225
- Interaction between arctic and antarctic sea ice. Xie, S.M., et al. [1995,eng] 50-3417
- Interannual variability of sea-level pressure, sea-ice and runoff over the Arctic. Power, S.B., et al. [1991,eng] 50-5258
- Interannual variability of the ice cover in the Chukchi and Beaufort Seas. Chouinard, L.E., et al. [1995,eng] 50-187
- Intercomparisons of sea ice concentration from SSM/I and AVHRR data of the Ross Sea. Zibordi, G., et al. [1995,eng] 50-938
- JARE-33 activities in summer 1991-1992 and winter 1992. Fukuchi, M., et al. [1996,jpn] 50-6348
- Krill and sea ice cover. Kawaguchi, S., et al. [1994,eng] 50-859
- Labrador Sea atmospheric circulation/sea-ice anomalies. Newell, J.P., [1996,eng] 50-6227
- Least average residual algorithm (LARA) for tracking the motion of arctic sea ice. Peddada, S.D., et al. [1996,eng] 50-5686
- Log of the Scotia Expedition, 1902-4. Bruce, W.S., [1992,eng] 50-3578
- Long-term observations for monitoring of the cryosphere. Walsh, J.E., [1995,eng] 50-3350
- MANICE. Manual of standard procedures for observing and reporting ice conditions. 8th edition. Canada. Atmospheric Environment Service. Ice Services Branch, [1994,eng] 50-409
- Marine bacterioplankton and sea ice bacterial seasonal changes. Delille, D., et al. [1996,eng] 50-3869
- Marine seismic profiling in ice covered regions. Jokar, W., et al. [1995,eng] 50-2568
- Measurements of the underside topography of sea ice by moored subsea sonar. Melling, H., et al. [1995,eng] 50-160
- Meteorological support for navigation along the Northern Sea Route. Kondrat'ev, K.I.A., et al. [1994,eng] 50-648
- Microwave imaging of Labrador Sea thin sea ice. Collins, M.J., et al. [1996,eng] 50-2701
- Model of Northern Hemisphere glaciation. Dong, B.W., et al. [1995,eng] 50-1328
- Modeling climatic sensitivity of European marginal seas. Backhaus, J.O., [1996,eng] 50-4022
- Modeling the surface heat flux response to long-lived SST anomalies in the North Atlantic. Power, S.B., et al. [1995,eng] 50-639
- Modelling arctic climate change. Cattle, H., et al. [1995,eng] 50-5227
- Modelling interannual sea ice variability in the Gulf of St. Lawrence. DeTracey, B., [1993,eng] 50-375
- Monitoring and modelling the ice conditions offshore Greenland. Valeur, H.H., et al. [1995,eng] 50-2971
- Monitoring lead dynamics with ERS-1 synthetic aperture radar imagery. Wackerman, C.C., et al. [1994,eng] 50-1512
- Movement of ACC eddies at the eastern boundary of the Weddell Gyre. Guretskii, V.V., et al. [1994,eng] 50-337
- Multisensor observations of winter sea ice in the Greenland Sea. Toudal, L., [1994,eng] 50-1514
- New insights on large-scale oceanography in Fram Strait: the West Spitsbergen Current. Gascard, J.C., et al. [1995,eng] 50-1163
- North Water polynya studies in Baffin Bay, Apr. 1978-Dec. 1979. Müller, F., et al. [1980,eng] 50-3974
- North-East Water polynya: satellite observations summer 1992 and 1993. Gudmundsen, P., et al. [1995,eng] 50-1814
- Numerical model simulation of a summer reversal of the Beaufort gyre. Preller, R.H., et al. [1989,eng] 50-4706
- Numerical prediction of sea surges and ice conditions on the Laptev and East-Siberian Sea. Ashik, I.M., [1995,eng] 50-2069
- Observations of sea ice and icebergs in the western Barents Sea during the winter of 1987. Løset, S., et al. [1995,eng] 50-213
- Ocean Drilling Program in Fram Strait and prediction of ice-free conditions. Wadhams, P., et al. [1995,eng] 50-215
- Oceanic remote sensing and sea ice monitoring. Johannessen, J.A., ed. et al. [1994,eng] 50-1509
- Oil pollution in Arctic waters. Futsaeter, G., et al. [1991,eng] 50-3421

Sea level

- On the interannual variability of precipitation and runoff in the Mackenzie drainage basin. Björnsson, H., et al. [1995,eng] 50-2737
- Operational use of ERS-1 SAR images in the Canadian ice monitoring programme. Shokr, M.E., et al. [1996,eng] 50-4017
- Oscillatory behavior in arctic sea ice concentrations. Gloersen, P., et al. [1996,eng] 50-4300
- Partial disintegration of antarctic ice. Simões, J.C., [1995,por] 50-3936
- Penguin population dynamics in relation to sea ice distribution. Trathan, P.N., et al. [1996,eng] 50-5735
- Phytoplankton seasonal bloom shift in Barents Sea ice. Strass, V.H., et al. [1996,eng] 50-6721
- Picking out the pack ice from the air [1989,eng] 50-5645
- Polar sea ice off West Greenland—a review. Fabricius, J.S., et al. [1995,eng] 50-2972
- Precipitation and river runoff in an ice-ocean model of the Arctic. Weatherly, J.W., [1994,eng] 50-675
- Preconditioning the Greenland Sea for deep convection: ice formation and ice drift. Visbeck, M., et al. [1995,eng] 50-567
- Proceedings. Vol.2. International Offshore and Polar Engineering Conference, 5th, Hague, Netherlands, June 11-16, 1995, [1995,eng] 50-175
- Recent retreat of ice shelves on the Antarctic Peninsula. Vaughn, D., et al. [1995,eng] 50-2155
- Reconstruction of the ice winter severity since 1701 in the western Baltic. Koslowski, G., et al. [1995,eng] 50-1957
- Record of Holocene paleoclimate changes from glacial marine sediments in Lallemand Fjord. Shevenell, A.E., [1996,eng] 50-4074
- Reduction of weather effects in the calculation for sea-ice concentration with the DMSP SSM/I. Cavalieri, D.J., et al. [1995,eng] 50-1867
- Regional and floe-floe deformation. Overland, J.E., et al. [1995,eng] 50-6286
- Relation between the Asian monsoon, Asian snow coverage, and Okhotsk sea ice. Sekine, Y., et al. [1996,eng] 50-5896
- Remote sensing ice detection capabilities—East Coast. Rossiter, J.R., et al. [1995,eng] 50-1412
- Remote sensing of arctic sea ice using the ERS-1 SAR. Askne, J., et al. [1992,eng] 50-223
- Remote sensing of sea ice by passive microwave radiometer. Enomoto, H., [1996,jpn] 50-3506
- Remote sensing of sea ice variations in response to atmospheric circulation. Maslanik, J.A., et al. [1995,eng] 50-1815
- Remote-sensing data used in a polar atmosphere and cryosphere study. Hirasawa, N., et al. [1995,jpn] 50-1695
- Report of the International Ice Patrol in the North Atlantic, 1994 season. U.S. Coast Guard, [1994,eng] 50-52
- Research of the ice climatology of the Baltic Sea. Leppäranta, M., et al. [1996,eng] 50-5905
- Retrieval of thin ice thickness from multifrequency polarimetric SAR data. Kwok, R., et al. [1995,eng] 50-349
- Review of modelling the thermodynamics of floating ice. Savage, S.B., et al. [1996,eng] 50-6488
- Ridging and strength in modeling the thickness distribution of arctic sea ice. Flato, G.M., et al. [1995,eng] 50-570
- Russian-German cooperation: Laptev Sea system. Kassens, H., et al. [1995,eng] 50-2059
- SAR observations of arctic freeze-up compared to SSM/I during ARCTIC'91. Pettersson, M.I., et al. [1996,eng] 50-6694
- Satellite mapping and monitoring of sea ice. Smith, D.M., et al. [1994,eng] 50-5197
- Satellite mapping of algal blooms and sea ice in the North Sea and Jusselmeer. Roozkrans, H., [1994,eng] 50-1517
- Satellite radar monitoring of ice drift in the Laptev Sea. Aleksandrov, V.I.U., et al. [1995,eng] 50-2062
- Satellite radar observations of Beaufort Sea autumn freeze-up. Winebrenner, D.P., et al. [1996,eng] 50-6218
- Satellite radar survey of Japan Sea ice processes. Martin, S., et al. [1995,eng] 50-1810
- Satellite remote sensing of the Arctic Ocean and adjacent seas. Comiso, J.C., [1995,eng] 50-1160
- Satellite remote sensing tools for sea ice engineering. Cavané, A., et al. [1995,eng] 50-184
- Satellite tracking of high-arctic northern fulmars. Falk, K., et al. [1995,eng] 50-718
- Sea ice and sediment export from the Laptev Sea flaw lead during 1991/92 winter season. Dethleff, D., [1995,eng] 50-2073
- Sea ice concentrations derived from satellite microwave imagery. Lomax, A.S., et al. [1995,eng] 50-1244
- Sea ice concentrations derived from SMMR and SSM/I. Björge, E., et al. [1994,eng] 50-1513
- Sea ice detection at Showa Station from MOS-1 mosaics. Ishida, K., et al. [1996,jpn] 50-5892
- Sea ice extent and surface mass accumulation in Amundsen, Bellingshausen and Weddell seas. Giovinetto, M.B., et al. [1993,eng] 50-3553
- Sea ice field experiments in the Laptev Sea, 1976. Gorbunov, I.U., et al. [1995,eng] 50-2064
- Sea ice in the global climate system: requirements for an ocean observing system. Allison, I., et al. [1995,eng] 50-4248
- Sea ice off the Icelandic coasts, October 1987-September 1988 [1988,ice] 50-3556
- Sea ice off the Icelandic coasts, October 1988-September 1989 [1990,ice] 50-3557
- Sea ice radar backscatter and the fusion of active and passive microwave data. Beaven, S.C., [1995,eng] 50-4171
- Sea ice rheology and sea ice modelling. Tremblay, B., [1993,eng] 50-5185

- Sea ice variation at the South Orkney Is. Murphy, E.J., et al. [1995,eng] 50-972
- Sea ice variations under doubled atmospheric carbon dioxide. Timbal, B., et al. [1995,eng] 50-2734
- Sea ice. Parkinson, C.L., [1996,eng] 50-4998
- Sea of Okhotsk near-freezing dichothermal layer variations. Yang, J.Y., et al. [1996,eng] 50-6219
- Sea-ice evolution in the Amundsen and Bellingshausen Seas. Jacobs, S.S., [1994,eng] 50-2226
- Sea-ice velocity fields estimation on Ross Sea with NOAA-AVHRR. Motezuma Flores, M., et al. [1995,eng] 50-983
- Search for proxy indicators of young sea ice thickness. Zabel, I.H.H., et al. [1996,eng] 50-4303
- Seasonal simulation of the southern ocean coupled ice-ocean system. Häkkinen, S., [1995,eng] 50-2113
- Seasonal variability of sea ice sizes and thickness on the northern Sakhalin shelf. Polomoshnov, A.M., et al. [1995,eng] 50-189
- Sensitivity of numerical prognoses to antarctic sea ice distribution. Watkins, A.B., et al. [1995,eng] 50-2111
- Shipboard observations of ice conditions off the Okhotsk Sea coast. Shimoda, H., et al. [1996,jpn] 50-5898
- Short term variations of sea ice cover. Chouinard, L.E., et al. [1995,eng] 50-186
- Simulation of ship transit for Baltic ice conditions. La Prairie, D., et al. [1995,eng] 50-4583
- Simulation of the mixed-layer circulation in the Arctic Ocean. Holland, D.M., et al. [1996,eng] 50-2843
- Simulation of the seasonal arctic sea-ice cover with a dynamic thermodynamic sea-ice model. Holland, D.M., et al. [1993,eng] 50-5186
- Snow and ice characteristics of the Bellingshausen Sea, during the spring melt. Aldworth, E., [1995,eng] 50-1022
- Snow and sea ice correlation to Chinese summer air temperatures. Fu, C.B., [1983,eng] 50-4099
- Some active and passive microwave signatures of antarctic sea ice from mid-winter to spring 1991. Gohin, F., [1995,eng] 50-161
- Spaceborne photography of Spitsbergen marginal ice zone. Ker-gomard, C., [1989,fre] 50-5029
- Spaceborne radar imagery for ice reporting in the Baltic Sea. Hakansson, B., et al. [1995,eng] 50-1821
- Spaceborne radiometry of Barents Sea ice cover variations. Björge, E., et al. [1994,eng] 50-5077
- Spatial and temporal variability in southern ocean sea ice coverage. Stammerjohn, S.E., [1993,eng] 50-5520
- SSM/I mapped experimental environmental image products. Donahue, D.R., et al. [1992,eng] 50-3567
- Steering Group for the Global Digital Sea-ice Data Bank. Fourth session. Final report. Commission for Marine Meteorology, [1994,eng] 50-6075
- Studies of clean and sediment-laden ice in the Laptev Sea. Eicken, H., et al. [1995,eng] 50-2071
- Study of antarctic pack ice. Stevens, J.E., [1995,eng] 50-5154
- Thickness of summer Arctic Ocean multiyear ice. Eicken, H., et al. [1995,eng] 50-2112
- Tidal displacement of sea ice at Nishino-ura Cove. Sato, T., et al. [1995,eng] 50-3694
- Validation and evaluation of a workstation for monitoring sea ice. McIntyre, N., et al. [1994,eng] 50-1515
- Western Weddell stratification and ice cover. Gordon, A.L., et al. [1994,eng] 50-2224
- What is an ice boom. Hokkaido Civil Engineering Research Institute. Fisheries Civil Engineering Laboratory (Suisan dokoku kenkyushitsu), [1994,jpn] 50-2831
- Wind events compared with polynya area estimates derived from SSM/I data. Markus, T., et al. [1993,eng] 50-5596
- Wind-induced ice floe rotation and icequakes north of the Alaskan Beaufort Sea coast. Kozo, T.L., et al. [1996,eng] 50-6508
- Winter ice in Okhotsk Sea and spring and summer climate in north Japan. Yamada, Y., [1996,jpn] 50-5903
- Sea level**
- Altimetry of North Atlantic subpolar current variations. White, M.A., et al. [1995,eng] 50-2778
- Antarctic ice sheet mass balance. Loewe, F., [1961,ger] 50-6422
- Barents Sea ice sheet retreat. Forman, S.L., et al. [1996,eng] 50-5585
- Beach sedimentation on paraglacial coasts. Forbes, D.L., et al. [1995,eng] 50-1119
- Catastrophic storm surges in the southern part of the Laptev Sea. Ashik, I.M., et al. [1995,eng] 50-2068
- Coastal Greenland Holocene sea level changes. Rasch, M., et al. [1995,eng] 50-5533
- Comment on paper by Blanchon et al. Clark, P.U., et al. [1995,eng] 50-1101
- Computer simulation of arctic shelf freezing during the Pleistocene. Sigunov, I.U.A., et al. [1995,eng] 50-6582
- Deglaciation of a Late Devensian British ice sheet. Merritt, J.W., et al. [1995,eng] 50-1858
- Dynamic response of high arctic glaciers to global warming and their contribution to sea-level rise. Lam, J.K.W., et al. [1995,eng] 50-6618
- Earth rotation, ocean circulation and paleoclimate. Möner, N.A., [1995,eng] 50-6063
- Evidence of Holocene sea level rise from Nova Scotian bottom sediments. Scott, D.B., et al. [1995,eng] 50-4528
- Glacial isostasy and lateral mantle viscosity. Sabadini, R., et al. [1989,eng] 50-4710

- Glacial rebound of the British Isles—III: constraints on mantle viscosity. Lambeck, K., et al. [1996,eng] 50-4737
- Glaciers in the high Arctic and recent environmental change. Dowdeswell, J.A., [1995,eng] 50-5236
- Glacio-isostatic implications of Swedish Holocene shore displacement. Berglund, M., [1995,eng] 50-3367
- Global sea level rise and glacial isostatic adjustment. Peltier, W.R., [1996,eng] 50-4310
- Global warming cuts no ice in Greenland. Gribbin, J., [1995,eng] 50-1966
- Heuristic model for sea level rise due to the melting of small glaciers. Wigley, T.M.L., et al. [1995,eng] 50-1215
- Holocene shoreline displacement in southernmost Spitsbergen. Ziaja, W., et al. [1995,eng] 50-5537
- Ice age sea level. Gornitz, V., [1996,eng] 50-4990
- Ice sheets, climate change and sea level. Drewry, D., [1996,eng] 50-3411
- Influence of a finite glaciation phase on predictions of post-glacial isostatic adjustment. Mitrovica, J.X., et al. [1995,eng] 50-2723
- Late glacial raised beaches and glacier recession in northeast Iceland. Norddahl, H., et al. [1993,eng] 50-4772
- Late Pleistocene deposits at Block Fen, Cambridgeshire, England. West, R.G., et al. [1995,eng] 50-6214
- Late Pleistocene sea level fluctuations and marine terraces. Radtke, U., [1990,ger] 50-1795
- Latest Quaternary foraminifers and sediment transport in Per-venets Canyon, Bering Sea. Starrau, S.W., [1995,eng] 50-3347
- Limits on the areal extent of the Barents Sea ice sheet in Late Weichselian time. Lambeck, K., [1996,eng] 50-5307
- Mantle rebound from data inversion of glacier isostatic dynamics. Peltier, W.R., et al. [1996,eng] 50-3548
- Modeling the influence of ice on sea level variations in the Baltic Sea. Zhang, Z.H., et al. [1995,eng] 50-6758
- North Sea lithostratigraphy related to glacial isostasy. Ekman, S.R.R., [1995,eng] 50-6560
- Numerical prediction of sea surges and ice conditions on the Laptev and East-Siberian Sea. Ashik, I.M., [1995,eng] 50-2069
- Numerical study of the circulation of the Bering Sea basin and exchange with the North Pacific Ocean. Overland, J.E., et al. [1994,eng] 50-2855
- On changes of air pressure during an ice age. Loewe, F., [1973,ger] 50-4617
- Past glaciation and sea levels on Bjørnøya, Svalbard. Salvigsen, O., et al. [1995,eng] 50-4720
- Post glacial emergence and the Tapes transgression, north-central Kola Peninsula, Russia. Snyder, J.A., et al. [1996,eng] 50-5829
- Postglacial sea-level history of Edgeøya and Barentsøya, eastern Svalbard. Bondevik, S., et al. [1995,eng] 50-4715
- Probability of sea level rise. Titus, J.G., et al. [1995,eng] 50-5783
- Quaternary sea level history in the Northwest Territories, Canada. Kerr, D.E., [1996,eng] 50-6553
- Rapid isostatic rebound in southwestern Iceland at the end of the last glaciation. Ingólfsson, O., et al. [1995,eng] 50-1802
- Recent history of the Bering Strait. Svitoch, A.A., et al. [1995,eng] 50-2535
- Reconstruction of the late Palaeozoic ice sheet on southwestern Gondwana. Visser, J.N.J., [1993,eng] 50-6318
- Relative sea level in the area of Matane (Québec) from deglaciation to present day. Dionne, J.C., et al. [1995,fre] 50-5036
- Satellite altimetry and FRAM model of the southern ocean. Snaith, H.M., [1994,eng] 50-1510
- Sea level variations related to glacial isostasy. Mitrovica, J.X., et al. [1995,eng] 50-1185
- Sea levels in Petuniabukta—central Spitsbergen. Stankowski, W., [1989,pol] 50-2887
- Storm surges in Canadian waters. Murty, T.S., et al. [1995,eng] 50-1854
- Vertical motion and ice thickness variation in western North America. Trupin, A.S., et al. [1996,eng] 50-3068
- Sea spray**
- Effects of northern shipping and storage on corrosion performance. Perrijo, L.D., III, et al. [1996,eng] 50-5952
- Model for spraying and three-dimensional icing on a stern trawler. Chung, K.K., et al. [1995,eng] 50-2955
- Sea states**
- Characteristics of frequency spectra of wind waves in the presence of ice floes. Hayakawa, T., et al. [1996,jpn] 50-5881
- Sea transportation**
- See [also]: Marine transportation
- Sea water**
- 135,000-year Vostok SPECMAP common temporal framework. Sowers, T., et al. [1993,eng] 50-2867
- ¹³C and ¹⁵N uptake by phytoplankton in the marginal ice zone of the Bellingshausen Sea. Bury, S.J., et al. [1995,eng] 50-1028
- Aerial surveillance of oil sheen following the Exxon Valdez oil spill shoreline cleanup. Taft, D.G., et al. [1995,eng] 50-3919
- Aluminum anodes used in cold saline environments. Schrieber, C.F., [1996,eng] 50-5955
- Analyzing the accuracy of calculating the surface layer temperature of the Barents Sea. Garbuzov, A.V., [1992,rus] 50-1268
- Arctic Ocean—a special natural cryogenic system. Danilov, I.D., [1996,rus] 50-6374
- Behavior of mercury in seawater to the northwest of the Antarctic Peninsula. Ruan, Z., [1989,chi] 50-6774

Sea water brines

- Biodiversity of gas vacuolate bacteria from antarctic sea ice and water. Gosink, J.J., et al. [1995,eng] 50-864
- Biogenic emission of organobromine compounds to the Arctic Ocean and atmosphere. Sturges, W.T., et al. International Conference on Natural-Produced Halogens, Delft, The Netherlands, 1995. Edited by A. Grimwell and E.W.B. de Leer. [1995,eng] 50-4825
- Biogenic hydrocarbons in particulate material of the Bellingshausen Sea marginal ice zone. Cripps, G.C., [1995,eng] 50-1025
- Biogeochemical study in the Bellingshausen Sea: overview of the STERNA 1992 expedition. Turner, D.R., et al. [1995,eng] 50-1021
- Chemical and toxicological evaluation of water quality following the Exxon Valdez oil spill. Neff, J.M., et al. [1995,eng] 50-3917
- Chemical characteristics of water masses in the Bransfield Strait. Wang, Y.H., et al. [1989,chi] 50-6772
- Chemical oceanography of the Arctic and its shelf seas. Anderson, L.G., [1995,eng] 50-1164
- Chemistry of water and ice from Drake Passage and the Bellingshausen Sea. Turner, S.M., et al. [1995,eng] 50-1024
- Chlorophyll fluorescence in the Laptev Sea. Anoshkin, A.F., et al. [1995,eng] 50-2083
- CTD measurements in the Greenland Sea, 1993. Budéus, G., et al. [1996,eng] 50-5105
- Deep water distillation. Boyle, E., [1996,eng] 50-5152
- Disturbances in the thermohaline structure of the near-surface ocean layer in the wake of an iceberg. Abaza, V.P., et al. [1995,rus] 50-4202
- DOC storage in arctic seas: the role of continental shelves. Walsh, J.J., [1995,eng] 50-1165
- Effects of northern shipping and storage on corrosion performance. Perrigo, L.D., III, et al. [1996,eng] 50-5952
- Expedition ARKTIS X/1 of the research vessel *Polarstern* in 1994. Fahrbach, E., ed. [1995,ger] 50-3157
- Geochemistry and mineralogy of Kap Edvard Holm waters. Brandriss, M.E., et al. [1995,eng] 50-2056
- High precision ^{230}Th and ^{234}Th in the Norwegian Sea and Denmark by thermal ionization mass spectrometry. Moran, S.B., et al. [1995,eng] 50-2022
- Ice-age tropics revisited. Anderson, D.M., et al. [1994,eng] 50-3771
- Inorganic nutrients in the marginal ice zone of the Bellingshausen Sea in spring. Whitehouse, M.J., et al. [1995,eng] 50-1023
- Iron(II) in rainwater, snow, and surface seawater from a coastal environment. Zhuang, G.S., et al. [1995,eng] 50-979
- Marine bacterioplankton and sea ice bacterial seasonal changes. Delille, D., et al. [1996,eng] 50-3869
- Marine snow in antarctic coastal waters. Marchant, H.J., et al. [1996,eng] 50-6034
- Measuring ocean parameters at extremes of temperature. Neal, G.W., et al. [1994,eng] 50-5180
- Natural chemiluminescence of the marine environment under conditions of polar day and night. Lapshin, A.I., [1991,rus] 50-1315
- Nutrient cycle in the Bransfield Strait. Wang, Y.H., et al. [1989,chi] 50-6773
- Ocean thermohaline circulations compared. Yu, E.F., et al. [1996,eng] 50-5153
- Organic carbon of the Arctic Ocean. Wheeler, P.A., et al. [1996,eng] 50-4212
- Particulate organic matter in Terra Nova Bay in summer 1990. Fabiano, M., et al. [1996,eng] 50-3702
- Phytoplankton response to fluctuating UVB. Karentz, D., et al. [1995,eng] 50-1323
- Pressure, salinity, and maximum density temperature of sea water. Kukulka, D.J., et al. [1996,eng] 50-6441
- Radionuclide distribution in the marginal ice zone in the Bellingshausen Sea. Shimfield, G.B., et al. [1995,eng] 50-1029
- Sea-air exchange of sulfur, phosphorus, and nitrogen in marine aerosols over the Antarctic Peninsula waters. Chen, L.Q., et al. [1989,chi] 50-6775
- Skimmers help clear Alaskan spillage. [1989,eng] 50-5648
- Sources and distribution of sulfate in the Pacific atmosphere. Chen, L.Q., et al. [1989,chi] 50-6786
- Spectrometry of Norwegian Sea water radioactive isotopes. Moran, S.B., et al. [1995,eng] 50-1186
- Structure of microphytoplankton assemblages. Froneman, P.W., et al. [1995,eng] 50-1324
- Summer phytoplankton bloom under fast ice around Showa Station. Odate, T., et al. [1996,eng] 50-6037
- Suspended particulates and plankton during retreat of the marginal ice zone in the Bellingshausen Sea. Robins, D.B., et al. [1995,eng] 50-1026
- Ultraviolet and visible solar irradiance at the Weddell-Scotia Confluence, spring 1993. Sikorski, R.J., et al. [1994,eng] 50-4244
- Upward flushing of sea water through first year sea ice. Hudier, E.J.J., et al. [1995,eng] 50-4210
- Water column and sea-ice primary production during Austral spring in the Bellingshausen Sea. Boyd, P.W., et al. [1995,eng] 50-1027
- Winter-summer differences of carbon dioxide and oxygen in the Weddell Sea surface layer. Hoppema, M., et al. [1995,eng] 50-3006

Sea water brines

See [also]: Brines

Sea water circulation

- Expedition ARKTIS-XI/2 of RV *Polarstern* in 1995. Krause, G., ed. [1996,eng] 50-5104

Sea water composition

See [also]: Chemical composition

Sea water freezing

- Convection induced polynyas during the freezing of antarctic seawater. Hadji, L., [1996,eng] 50-6452
- Freezing driven upwelling in antarctic sea ice biological systems. Ackley, S.F., et al. [1996,eng] 50-6032
- Penetrative convection induced by the freezing of seawater. Hadji, L., et al. [1996,eng] 50-6761
- Sea ice formation in Cook Inlet Alaska: a high energy environment. Nelson, W.G., [1995,eng] 50-2944
- Turbulence in the statically unstable oceanic boundary layer under arctic leads. McPhee, M.G., et al. [1996,eng] 50-4297

Sea waves

See [also]: Ocean waves

Sealing

- Durability cracking from freeze-thaw in concrete. Janssen, D.J., et al. [1986,eng] 50-2801
- Effect of color and texture on the surface temperature of asphalt concrete pavements. Berg, R.L., [1985,eng] 50-4362
- Fixing frozen leaks in a dam in Hokkaido. Takada, K., et al. [1995,jpn] 50-6738
- Frost heave investigation of I 275. Novak, E.C., Jr., [1982,eng] 50-2058
- Heat flux monitoring during cryogenic pipe freezing: a case study. Tavner, A.C.R., et al. [1996,eng] 50-5477
- Investigation and repair of a terra cotta dome in a cold climate. Ogle, R., et al. [1995,eng] 50-1978
- Laboratory testing of air retarders in metal building panels. Flanders, S.N., et al. [1995,eng] 50-1980
- Lost circulation material usage in coiled tubing remedial cementing at Prudhoe Bay. Krause, R.E., [1991,eng] 50-1706
- Northern climate weathering tests on sealed concrete. Chang, L.M., [1996,eng] 50-6119
- Oil-soluble resin-diverting agents in Prudhoe Bay acidizing operations. Strasser, J.E., et al. [1991,eng] 50-1698
- Pre-analysis of soil organic compound holding times. Hewitt, A.D., [1996,eng] 50-5961
- Subsea pipe freeze first on East Brae. [1993,eng] 50-5441
- Thixotropic, crosslinking polymer/borate/salt plug: development and application. Powell, J.W., et al. [1991,eng] 50-1707

Seasonal ablation

- Changing drainage patterns within South Cascade Glacier, Washington, USA, 1964-1992. Fountain, A.G., et al. [1995,eng] 50-2431

Seasonal freeze thaw

- Active layer of perennially frozen ground as a natural self-regulating system. Krivoshechekov, V.S., [1996,rus] 50-6395
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Characteristics of the seasonal freezing of rocks in the Tien Shan. Severskii, E.V., [1996,rus] 50-6368
- Comparison of load restriction timings determined using FHWA guidelines and frost tubes. Yesiller, N., et al. [1996,eng] 50-4752
- Compilation of the map of seasonal frozen depth in Jilin Province at 1:2,000,000. Zhang, X., et al. [1989,chi] 50-1351
- Cryogenic state of soil in the cryolithozone (Yakutia). Gavril'ev, P.P., et al. [1996,rus] 50-6844
- Effect of color and texture on the surface temperature of asphalt concrete pavements. Berg, R.L., [1985,eng] 50-4362
- Effect of seasonal freezing on the formation of naleds in northern Transbaikalia. Belikov, A.E., [1993,rus] 50-115
- Effect of the seasonal thaw layer in rocks on their deformation properties. Khamin, M.N., [1993,rus] 50-122
- Effects of hydrology on the thermal conditions of the active layer. Woo, M.K., et al. [1994,eng] 50-5702
- Energy-balance model of lake-ice evolution. Liston, G.E., et al. [1995,eng] 50-457
- Engineering-geocryological problems in Transbaikalia: collected scientific papers. Shesternev, D.M., ed. [1993,rus] 50-107
- Engineers in Bosnia: an overview. Treleven, D.L., [1996,eng] 50-5144
- Experimental study of the thermal regime of soils in the arctic regions of Western Siberia. Pavlov, A.V., et al. [1996,rus] 50-6388
- Exploration for hydrocarbon deposits and engineering preparation of oil and gas provinces. Akhmetshin, A.A., et al. [1996,rus] 50-6371
- Formation of taliks and high temperature frozen rocks under conditions of Central Yakutia. Shender, N.I., et al. [1996,rus] 50-6412
- Geocryological conditions of Transbaikalia and engineering-geocryological problems. Shesternev, D.M., et al. [1993,rus] 50-108
- Ground temperature and frost heave near Showa Station. Sawagaki, T., [1995,eng] 50-3696
- Ice accumulation in rock streams of northern Transbaikalia. Verkhuturov, A.G., [1993,rus] 50-118
- Midge emergence during thaw cycles of a subalpine lake. Sher, T., et al. [1996,eng] 50-4504
- Moisture-based model for calculating daily changes in seasonal soil frost depth. Ryerson, C.C., [1979,eng] 50-3713
- Monitoring soil condition in the northern Tibetan Plateau using SSM/I data. Chang, A.T.C., et al. [1996,eng] 50-6692
- Nature of the displacement of dispersed rocks on slopes. Petrov, V.S., et al. [1996,rus] 50-6402

- Observations of the mobility of rock streams in the Udokan Range. Romanovskii, N.N., et al. [1996,rus] 50-6403

- Sea of Okhotsk near-freezing dichothermal layer variations. Yang, J.Y., et al. [1996,eng] 50-6219

- Seasonal and annual dynamics of frozen ground in the central highland of Iceland. Thórhallsdóttir, T.E., [1996,eng] 50-5499

- Seasonal freezing and soil erosion during snowmelt. Demidov, V.V., et al. [1995,eng] 50-2714

- Seasonal radar backscatter variation from boreal forests. Pulliainen, J.T., et al. [1996,eng] 50-4765

- Sensor mapping of arctic wetland distribution. Morrissey, L.A., et al. [1996,eng] 50-4764

- Soil freeze-thaw effects on bank erodibility and stability. Gatto, L.W., [1995,eng] 50-2706

- Spaceborne radiometry of Barents Sea ice cover variations. Bjørge, E., et al. [1994,eng] 50-5077

- Techniques and procedures for route clearance. Schneek, W.C., Jr., et al. [1996,eng] 50-5143

- Thermodynamic model of lake ice formation and melting. Dmitriev, N.V., [1995,eng] 50-5480

- Using electrometry to study the dynamics of seasonal freezing and thawing. Boikov, S.A., et al. [1995,rus] 50-2514

See [also]: Freeze thaw cycles

Seasonal thaw layer

See [also]: Active layer; Thaw depth

Seasonal variations

- 1990 arctic sea ice reduction related to snow cover minima. Serreze, M.C., et al. [1995,eng] 50-773
- 1994/95 winter ice in the Baltic Sea between the Ems and the Oder rivers. Strubing, K., [1995,ger] 50-4535
- 1996 avalanche cycle of intermountain West. Tremper, B., [1996,eng] 50-4761
- Accuracy of SPOT digital elevation model and derivatives: utility for Alaska's North Slope. Sasowsky, K.C., et al. [1992,eng] 50-1448
- Aircraft icing over northwest Europe. Ashley, H., [1979,eng] 50-4402
- Altimetry of North Atlantic subpolar current variations. White, M.A., et al. [1995,eng] 50-2778
- Annual net balance of North Cascade glaciers, 1984-94. Peltó, M.S., [1996,eng] 50-4886
- Antarctic stratospheric spectroscopy using N_2O observations. Crewell, S., et al. [1995,eng] 50-1329
- Appearance of F2 and Es modes during oblique-incidence sounding in the high latitude ionosphere. Egorova, L.V., et al. [1991,rus] 50-2270
- Arctic Ocean dimethyl sulfide seasonal variability. Leck, C., et al. [1996,eng] 50-4313
- Arctic ozone depletion observed by UARS MLS during the 1994-95 winter. Manney, G.L., et al. [1996,eng] 50-3603
- Arctic sea ice decreases related to wind variations. Maslanik, J.A., et al. [1996,eng] 50-6511
- Assessment of global climate model simulations of arctic air temperatures. Tao, X., et al. [1996,eng] 50-5532
- Assessment of hydrological changes. Hiltunen, T., [1994,eng] 50-3184
- Assessment of the use of deicing salts. Breitenstein, J., [1996,ger] 50-3617
- Asymmetric diurnal temperature change in the alpine region. Weber, R.O., et al. [1994,eng] 50-4790
- Atlantic water in the arctic basin. 2. Circulation. Dmitriev, N.E., et al. [1995,eng] 50-6549
- Atmospheric aerosol in the Finnish Arctic. Virkkula, A., et al. [1995,eng] 50-4952
- Atmospheric bromine in the Arctic. Berg, W.W., et al. [1983,eng] 50-3650
- Atmospheric circulation and sea ice extent in the west Antarctic Peninsula area. Harangozo, S.A., [1994,eng] 50-2992
- Atmospheric CO_2 over Showa Station. Murayama, S., et al. [1995,eng] 50-974
- Atmospheric CO_2 variations at Spitsbergen. Engardt, M., et al. [1996,eng] 50-3723
- Atmospheric heat budget seasonal variations in 1988. Okada, J., et al. [1995,eng] 50-2581
- Avalanche climatology of the continental zone in the southern Rocky Mountains. Mock, C.J., [1995,eng] 50-969
- Avalanche incidents during the winter of 1993-94. Oberschmidt, C., et al. [1994,ita] 50-1563
- Biogeochemical cycling in a seasonally anoxic lake. Hamilton-Taylor, J., et al. [1996,eng] 50-5818
- Boundary-layer ozone depletion as seen in the Norwegian arctic in spring. Solberg, S., et al. [1996,eng] 50-4152
- Case study in three-dimensional inverse methods: combining hydrographic, acoustic, and moored thermistor data in the Greenland Sea. Morawitz, W.M.L., et al. [1996,eng] 50-5167
- Characteristics of Arctic Ocean climate based on COADS data, 1980-1993. Clark, M.P., et al. [1996,eng] 50-6545
- Characteristics of runoff formation at the Kirgizskiy Alatau, Tien Shan. Aizen, V.B., et al. [1995,eng] 50-2435
- Characteristics of water quality in a forest river during the snow melting period. Tachibana, H., et al. [1994,eng] 50-4222
- Chemical characterization of individual aerosol particles in central Siberia. Van Malderen, H., et al. [1996,eng] 50-4966
- Chlorophyll in the western Bering Sea. Mordasova, N.V., [1995,eng] 50-3605
- Circulation mechanisms in the atmosphere of the Northern Hemisphere in the 20th century. Dzerdzeevskii, B.L., [1968,rus] 50-3400

Seasonal variations

Seasonal variations

- Climate change and snow-cover duration in the Australian Alps. Whetton, P.H., et al. [1996,eng] 50-4751
- Climate, snow, cover, glaciers, and runoff in the Tien Shan, central Asia. Aizen, V.B., et al. [1995,eng] 50-2538
- Climatic atlas of Labrador Sea seasonal ice concentration. Wang, J., et al. [1991,eng] 50-5259
- Climatological aspects of cyclone development and decay in the Arctic. Serreze, M.C., et al. [1995,eng] 50-599
- Comments on paper by Dey et al. Ropelewski, C.F., et al. [1984,eng] 50-4916
- Comparison of methods used to create estimate of air-freezing index. Steurer, P.M., et al. [1995,eng] 50-360
- Comparison of monthly sea ice simulation models. Wu, X.R., et al. [1996,eng] 50-5451
- Concentration changes of MSA and major ions in arctic aerosols during polar sunrise. Suzuki, K., et al. [1995,eng] 50-3251
- Contribution to the hydrological and hydrochemical response of mountain basins. Babjaková, G., et al. [1994,eng] 50-3670
- Contributions of snow and fog to Greenland ice sheet ionic variations. Bergin, M.H., et al. [1995,eng] 50-586
- Controls on CH₄ flux from an Alaskan boreal wetland. Moosavi, S.C., et al. [1996,eng] 50-6053
- Correlation between atmospheric pressure anomalies and snowpack accumulation. McCabe, G.J., Jr., et al. [1995,eng] 50-1551
- Cyclic fluctuations and predictability of monthly precipitation totals. Orlov, N.F., et al. [1992,rus] 50-1276
- Decadal evolution of the antarctic ozone hole. Jiang, Y., et al. [1996,eng] 50-5253
- Decadal oscillations driven by the annual cycle in a zonally-averaged coupled ocean-ice model. Yang, J.Y., et al. [1996,eng] 50-3069
- Degree-day glacier mass balance modelling. Johannesson, T., et al. [1995,eng] 50-455
- Demonstration of seasonal changes in the territory of Finland using multitemporal NOAA-AVHRR data. Andersson, K., [1992,eng] 50-618
- Deposit of atmospheric biphenyls in the Canadian Arctic. Gregor, D., et al. [1996,eng] 50-6521
- Depth hoar influence on permafrost thermal regime. Zhang, T., et al. [1996,eng] 50-6585
- Detecting and monitoring snow cover variability. Barry, R.G., et al. [1995,eng] 50-3314
- Detection of air pollution at a Svalbard mountain station. Beine, H.J., et al. [1996,eng] 50-5205
- Differences in the duration of snow cover on Scottish ski-slopes between mild and cold winters. Harrison, S.J., [1993,eng] 50-3014
- Dimethyl sulfide in the arctic atmosphere. Ferek, R.J., et al. [1995,eng] 50-2850
- Direct measurements of transport and water properties through the Bering Strait. Roach, A.T., et al. [1995,eng] 50-566
- Distribution and transport of atmospheric water vapour over the arctic basin. Serreze, M.C., et al. [1995,eng] 50-5217
- Distribution of hydrogen peroxide in surface snow over antarctic ice sheet. Kamiyama, K., et al. [1996,eng] 50-3452
- Downwelling radiation fluxes at the arctic surface based on parameterizations. Silcox, R.A., [1994,eng] 50-5303
- Dry depositional loading of nitrogen to an alpine snowpack. Niwot Ridge, Colorado. Cress, R.G., et al. [1995,eng] 50-2396
- Dynamics of heat exchange between sediment and water in a lake. Fang, X., et al. [1996,eng] 50-5970
- Effects of acidification on plankton biomass in high mountain lakes. Engle, D., et al. [1995,eng] 50-2149
- Effects of avalanche snow redistribution on summer streamflow variations. De Sclay, F.A., [1996,eng] 50-4333
- Effects of sea ice cover on atmospheric methane over the Sea of Okhotsk. Lammers, S., et al. [1995,eng] 50-1147
- Effects of smelter emissions on pine tree frost hardiness. Sutinen, M.L., et al. [1996,eng] 50-4309
- Eight-year time series radiometric measurement of snow and sea ice covers. Ferraro, R.R., et al. [1996,eng] 50-5769
- Empirical study on Nimbus-7 snow mass and Indian summer monsoon rainfall. Kripalani, R.H., et al. [1996,eng] 50-6226
- Energy partitioning at treeline forest and tundra sites and its sensitivity to climate change. Lafleur, P.M., et al. [1995,eng] 50-600
- Energy-balance model of lake-ice evolution. Liston, G.E., et al. [1995,eng] 50-457
- Erosion rates and sediment yields of glaciers. Bogen, J., [1996,eng] 50-6239
- ERS-1 altimetry on the Greenland ice sheet: preliminary investigations of annual variations. Andersen, O.B., [1994,eng] 50-5033
- Evidence for arctic ozone depletion in late February and early March 1994. Manney, G.L., et al. [1995,eng] 50-4540
- Evidence of arctic-wide atmospheric aerosols from DMSP visible imagery. Shine, K.P., et al. [1984,eng] 50-4494
- Evolution of factors affecting gas transmissivity of snow in the boreal forest. Hardy, J.P., et al. [1995,eng] 50-2398
- Evolution of snow cover and avalanche activity in the Italian Alps during winter 1993-94. Lizzero, L., et al. [1994,ita] 50-1562
- Experimental study of the thermal regime of soils in the arctic regions of Western Siberia. Pavlov, A.V., et al. [1996,rus] 50-6388
- Extreme fire seasons in the forests of Evenkia. Ivanova, G.A., [1995,eng] 50-4700
- Factors controlling suspended sediment transport in Himalayan glacier meltwaters. Hasnain, S.I., [1996,eng] 50-5688
- Fall phytoplankton biomass, P-I relationships and primary production in the Weddell Sea. Dower, K.M., et al. [1996,eng] 50-4008
- Flux of dense cold overflow water southeast of Iceland. Saunders, P.M., [1996,eng] 50-3145
- Fluxes of nutrients between benthic and planktic communities in the coastal zone of the Barents Sea. Kuznetsov, L.L., et al. [1995,eng] 50-3606
- Formation and evolution of the surface mixed layer and halocline of the Arctic Ocean. Rudels, B., et al. [1996,eng] 50-5261
- Freshwater impact on Hudson Bay ecosystems under sea ice. Pt. 1. Ingram, R.G., et al. [1996,eng] 50-4019
- Glacier river water study in Austre Okstindbreen Basin. Theakstone, W.H., et al. [1994,eng] 50-5700
- Glacio-meteorological and isotopic studies along the EGIG line, central Greenland. Fischer, H., et al. [1995,eng] 50-1873
- Global sea-ice-upper-ocean model: some preliminary results. Fichet, T., et al. [1993,eng] 50-4821
- Ground-based aerosol measurements at Arrival Heights, Antarctica. Kreher, K., et al. [1996,eng] 50-6681
- Growth dynamics and population development in an alpine grassland under elevated CO₂. Schappi, B., [1996,eng] 50-5779
- Halocarbon seasonal variations in the arctic troposphere. Yokouchi, Y., et al. [1996,eng] 50-5612
- Heat and moisture supply of natural biogeocenoses in the Northern, Subpolar and Polar Urals. Belonenko, G.V., et al. [1994,rus] 50-269
- Herb germination ecology in Yellowstone National Park. Romme, W.H., et al. [1995,eng] 50-2816
- Himalayan summer snow cover and withdrawal of the Indian summer monsoon. Dey, B., et al. [1985,eng] 50-4970
- Hoods, mists, frosts, and ice caps at the poles of Mars. Dollfus, A., et al. [1996,eng] 50-5194
- Hydrogeochemistry of Fraser River, British Columbia. Cameron, E.M., [1996,eng] 50-5815
- Hydrology of a polythermal glacier, Erikbreen, northern Spitsbergen. Vain, G., et al. [1995,eng] 50-3150
- Ice conditions in Zalew Szczeciński (Stettiner Haff) during the winter 1994/95. Schmelzer, N., et al. [1995,eng] 50-4536
- Ice forming nuclei in the high Arctic. Bigg, E.K., [1996,eng] 50-4317
- Iceberg-structure interaction probabilities for design. Fuglem, M., et al. [1996,eng] 50-5052
- Implications of glacial hydrology and flow for subglacial drainage dynamics. Raymond, C.F., et al. [1995,eng] 50-451
- Importance of the correction of precipitation measurements on the Tibetan Plateau. Ueno, K., et al. [1996,eng] 50-5775
- Influence of forest fire aerosols on sampling of polar atmospheres. Polissar, A.V., et al. [1996,eng] 50-5206
- Inter-annual variability in marine coastal antarctic bacterioplankton. Delille, D., et al. [1996,eng] 50-4006
- Inter-annual variation in the radiation and turbulent flow in the Barents, Norwegian and Greenland seas. Girdiuk, G.V., [1992,rus] 50-1270
- Interaction between subglacial sediment and meltwater. Collins, D.N., [1996,eng] 50-6265
- Interaction of arctic fogs with aerosols. Nilsson, E.D., et al. [1996,eng] 50-4318
- Interannual climate variability and snowpack in the western United States. Cayan, D.R., [1996,eng] 50-5529
- Interannual variability of sea-level pressure, sea-ice and runoff over the Arctic. Power, S.B., et al. [1991,eng] 50-5258
- Isotopic and ionic variations in glacier river water during three contrasting ablation seasons. Theakstone, W.H., et al. [1996,eng] 50-6085
- Katabatic winds over an East Antarctic cirque. Jonsson, S., [1995,eng] 50-1338
- Labrador Sea atmospheric circulation/sea-ice anomalies. Newell, J.P., [1996,eng] 50-6227
- Lake acidification during mountain snowmelt. Stoddard, J.L., [1995,eng] 50-4076
- Lidar measurements of arctic polar ozone depletion. Wirth, M., et al. [1996,eng] 50-5286
- Lidar observations of stratospheric temperature above McMurdo Station, Antarctica. Di Donfrancesco, G., et al. [1996,eng] 50-5605
- Long-range tropospheric transport of pollution aerosols into the Alaskan Arctic. Raatz, W.E., et al. [1984,eng] 50-4722
- Low cloud icing climatological data. Takasugi, S., [1970,eng] 50-4405
- Marine bacterioplankton and sea ice bacterial seasonal changes. Delille, D., et al. [1996,eng] 50-3869
- Meadow ecology in the polar Urals, Russia. Gorchakovskii, P.L., et al. [1996,eng] 50-5482
- Measurements of Alaskan spring atmospheric ozone content. Beine, H.J., et al. [1996,eng] 50-6640
- Meteor-3/TOMS observations of the 1994 ozone hole. Herman, J.R., et al. [1995,eng] 50-3092
- Meteorological events on the Italian Alps during the winter of 1993-94. Costantini, N., et al. [1994,ita] 50-1561
- Meteorological support for navigation along the Northern Sea Route. Kondrat'ev, K.I.A., et al. [1994,eng] 50-648
- Microbial sea ice ecology at a coastal antarctic site. Archer, S.D., et al. [1996,eng] 50-5456
- Microplankton bloom dynamics in McMurdo Sound, Antarctica. Stoeker, D.K., et al. [1993,eng] 50-3394
- Midge emergence during thaw cycles of a subalpine lake. Sherk, T., et al. [1996,eng] 50-4504
- Model calculations of ozone depletion in the arctic polar vortex for 1991/92 to 1994/95. Chipperfield, M.P., et al. [1996,eng] 50-3551
- Model of wintertime stratospheric circulation. Eluszkievicz, J., et al. [1995,eng] 50-1330
- Modelling the redistribution of runoff caused by global warming. Martinec, J., et al. [1994,eng] 50-5202
- Mollusc population dynamics on the antarctic shelf ocean bottom. Brey, T., et al. [1993,eng] 50-3395
- Monitoring organic pollutants in the Arctic in 1992. Fellin, P., et al. [1996,eng] 50-4359
- Moraine formation from subglacial frozen sedimentation. Krüger, J., [1996,eng] 50-5830
- Niwot Ridge snow fence experiment: biogeochemical response to changes in the seasonal snowpack. Brooks, P.D., et al. [1995,eng] 50-2421
- Numerical model simulation of a summer reversal of the Beaufort gyre. Preller, R.H., et al. [1989,eng] 50-4706
- Numerical study of the circulation of the Bering Sea basin and exchange with the North Pacific Ocean. Overland, J.E., et al. [1994,eng] 50-2855
- Objective determination of the polar vortex using Ertel's potential vorticity. Nash, E.R., et al. [1996,eng] 50-5452
- On the climatological mean circulation over the eastern Bering Sea shelf. Reed, R.K., et al. [1996,eng] 50-6201
- On the polar stratospheric cloud formation potential of the northern stratosphere. Pawson, S., et al. [1995,eng] 50-2116
- Ozone deposition in a subarctic woodland, pt. 1. Munger, J.W., et al. [1996,eng] 50-6641
- Pelagic processes in the Norwegian and Greenland Seas. von Bodungen, B., et al. [1995,eng] 50-746
- Peroxide concentrations in the Dome Summit South ice core, Law Dome, Antarctica. van Ommen, T.D., et al. [1996,eng] 50-6327
- Physical properties governing groundwater flow in a glacial till catchment. Hinton, M.J., et al. [1993,eng] 50-3693
- Phytoplankton biomass and taxonomy around Elephant 1. Vilafabe, V.E., et al. [1995,eng] 50-1826
- Phytoplankton seasonal bloom shift in Barents Sea ice. Strass, V.H., et al. [1996,eng] 50-6721
- Plankton age variations in the Cooperation Sea. Budnichenko, E.V., [1994,eng] 50-868
- Plankton biomass variation in antarctic lakes. Bayliss, P.R., et al. [1995,eng] 50-1336
- Plankton biomass variations in the Bering Sea. Tseitlin, V.B., et al. [1994,eng] 50-867
- Plant nutrient runoff in Norwegian watersheds. Haraldsen, T.K., et al. [1995,eng] 50-741
- Plume of the Yukon River in relation to the oceanography of the Bering Sea. Dean, K.G., et al. [1989,eng] 50-3933
- Possibility of forecasting monthly precipitation totals on the Kola Peninsula. Orlov, N.F., [1992,rus] 50-1277
- Precursory signals associated with the interannual variability of the Asian summer monsoon. Yang, S., et al. [1996,eng] 50-5530
- Preliminary results from POAM II: stratospheric ozone at high northern latitudes. Randall, C.E., et al. [1995,eng] 50-1213
- Primary productivity and microbial variations in the Chukchi Sea. Cota, G.F., et al. [1996,eng] 50-5457
- Probability distributions for peak stage on rivers affected by ice jams. Tushill, A.M., et al. [1996,eng] 50-4754
- Problem of the climatic snow line. Lang, H., et al. [1973,ger] 50-3842
- Processes controlling the chemistry of two snowmelt-dominated streams in the Rocky Mountains. Campbell, D.H., et al. [1995,eng] 50-2545
- Radiative fluxes and their impact on the energy balance of the Greenland ice sheet. Konzelmann, T., et al. [1995,eng] 50-1871
- Radiometry of Scandinavian atmospheric chemistry. Wehr, T., et al. [1995,eng] 50-1332
- Recent climatic trend and thermal response of permafrost in Saluit, northern Quebec, Canada. Wang, B.L., et al. [1996,eng] 50-6699
- Recent trends in maximum and minimum temperature threshold exceedances in the northeastern United States. DeGaetano, A.T., [1996,eng] 50-6572
- Reconstructed runoff from the high arctic basin Bayvela based on mass-balance measurements. Hagen, J.O., et al. [1995,eng] 50-4013
- Record low Siberian ozone levels. Bojkov, R.D., et al. [1995,eng] 50-1212
- Record winter snowfall of 1994-95 in U.S. West. Graf, D., et al. [1996,eng] 50-4155
- Recovery of ozone in the lower stratosphere at the South Pole during the spring of 1994. Hofmann, D.J., et al. [1995,eng] 50-1182
- Regional snow and water balance models. Xu, C.Y., et al. [1996,eng] 50-5835
- Relation between scattering coefficient and radiation flux over land-fast sea ice. Barber, D.G., et al. [1995,eng] 50-1816
- Relationship between atmospheric circulation and antarctic ozone depletion. Butchart, N., et al. [1996,eng] 50-3963
- Relationship between snow cover boundary and air temperature. Kislov, A.V., [1994,eng] 50-6093
- Remote sensing of sea ice variations in response to atmospheric circulation. Maslanik, J.A., et al. [1995,eng] 50-1815
- Revisiting the degree-day method for snowmelt computations. Rango, A., et al. [1995,eng] 50-1653
- Rime accretion on the fells. Tammelin, B., et al. [1992,eng] 50-3639

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- Rime climate in Sodankylä. Säntti, K., et al. [1992,eng] 50-3630
- Rocky Mountain snowmelt on talus slopes by radar satellite. Maxfield, A.W., [1996,eng] 50-5544
- Role of air-sea heat flux in Newfoundland Shelf sea temperature variability. Umoh, J.U., et al. [1995,eng] 50-4209
- Role of January in the character of recent winters in the United States. Diaz, H.F., [1984,eng] 50-4914
- Rowe Glacier—annual research report 1993. Scott, R.B., [1994,eng] 50-5547
- Runoff and sediment yield under grazing in foothills fescue grasslands of Alberta. Naeth, M.A., et al. [1996,eng] 50-3340
- Satellite observation of arctic ozone depletion. Müller, R., et al. [1996,eng] 50-6636
- Satellite radar observations of Beaufort Sea autumn freeze-up. Winebrenner, D.P., et al. [1996,eng] 50-6218
- Sea-ice evolution in the Amundsen and Bellingshausen Seas. Jacobs, S.S., [1994,eng] 50-2226
- Seasonal aerosol variability in the arctic marine boundary layer. Leck, C., et al. [1996,eng] 50-4320
- Seasonal changes in photosystem II organisation and pigment composition in *Pinus sylvestris*. Ottander, C., et al. [1995,eng] 50-1130
- Seasonal cycle of C₂-C₃ hydrocarbons over the Baltic Sea and northern Finland. Laurila, T., et al. [1996,eng] 50-5607
- Seasonal development of Beaufort Sea pack ice. Melling, H., et al. [1996,eng] 50-5857
- Seasonal frost mounds of arctic beaches, Tuktoyaktuk Peninsula, Northwest Territories. Campeau, S., et al. [1995,eng] 50-4882
- Seasonal nitrogen cycles on Pluto. Hansen, C.J., et al. [1996,eng] 50-4347
- Seasonal radar backscatter variation from boreal forests. Pulliainen, J.T., et al. [1996,eng] 50-4765
- Seasonal solute movement in continuous permafrost. Boike, J., et al. [1995,eng] 50-2093
- Seasonal variability in CO₂ transport through snow in a boreal forest. Winston, G.C., et al. [1995,eng] 50-2399
- Seasonal variations in antarctic sea ice brine chemistry. Gleitz, M., et al. [1995,eng] 50-1117
- Seasonal variations in arctic glacier sediment transport. Hodgkins, R., [1996,eng] 50-6253
- Seasonal variations in frost tolerance and sugar content of two *Plagiominium* species. Rütten, D., et al. [1993,eng] 50-6524
- Seasonal variations of stream water chemistry in Spitsbergen. Potschin, M., et al. [1994,ger] 50-1587
- Siberian tundra CO₂ flux as a source of seasonal CO₂ variations. Zimov, S.A., et al. [1996,eng] 50-5868
- Simulation of soil moisture variations reflecting the hydrological cycle. Akinremi, O.O., et al. [1996,eng] 50-5918
- Simulation of the seasonal arctic sea-ice cover with a dynamic thermodynamic sea-ice model. Holland, D.M., et al. [1993,eng] 50-5186
- Snow and avalanche. Annual report 1994-95. Colorado Avalanche Information Center. [1995,eng] 50-4308
- Snow cover distribution on a Wyoming glacier. Elder, K., [1995,eng] 50-2438
- Snow parameters for vehicle mobility modeling. Horrigan, T., et al. [1995,eng] 50-2708
- Snow recognition and classification using ISOMIX. Li, L.X., et al. [1994,eng] 50-3999
- Snow surface energy exchanges and snowmelt at a continental alpine site. Cline, D., [1995,eng] 50-2408
- Snow surveying in Canada: a perspective. Goodison, B.E., et al. [1987,eng] 50-4907
- Snowmelt induced chemical changes in seven streams in the Sierra Nevada, California. Melack, J.M., et al. [1995,eng] 50-2414
- Soil freeze-thaw effects on bank erodibility and stability. Gatto, L.W., [1995,eng] 50-2706
- Soil nutrient dynamics in East African alpine ecosystems. Rehder, H., [1994,eng] 50-3055
- Sounding of polar stratospheric ozone annual variations. Grunzev, A.N., et al. [1995,eng] 50-4748
- Source of summer arctic atmospheric aerosols. Maenhaut, W., et al. [1996,eng] 50-4321
- Sources of biogenic sulfur in the high Arctic. Hopke, P.K., et al. [1995,eng] 50-589
- Sources of organic carbon aerosols in the arctic atmosphere. Kawamura, K., et al. [1996,eng] 50-5611
- Spatial and temporal variability in southern ocean sea ice coverage. Stammerjohn, S.E., [1993,eng] 50-5520
- Spectroscopy of antarctic stratospheric ozone variations. pt.2. Cheng, D.J., et al. [1996,eng] 50-4349
- Spring-Bloom time-series at the Bering Sea ice edge pt.1. Niebauer, H.J., et al. [1995,eng] 50-1031
- State of high Arctic shallow ecosystems in Franz Josef Land. Averintsev, V.G., [1991,rus] 50-1296
- Statistical seasonal analysis of winter decreases in ozone at Macquarie Island. Lehmann, P., [1994,eng] 50-2521
- Status of a Weddell Sea foraminifer. Berberich, D., [1996,ger] 50-3867
- Stratospheric ozone layer above Spitsbergen in winter 1989. Neuber, R., et al. [1990,eng] 50-5975
- Stratospheric temperature variations in the north polar vortex. Zurek, R.W., et al. [1996,eng] 50-3070
- Stratospheric temperatures during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990,eng] 50-5977
- Stream flow hydrographic separation during watershed snowmelt. Sueker, J.K., [1995,eng] 50-2419
- Streamwater quality variations in a Colorado alpine environment. Caine, N., [1995,eng] 50-4189
- Study of Bering Sea primary productivity. Sapozhnikov, V.V., et al. [1995,eng] 50-6687
- Sudden changes in arctic atmospheric aerosol concentrations during summer and autumn. Bigg, E.K., et al. [1996,eng] 50-4319
- Surface radiation budget, Svalbard and Antarctica, 1987. Yamanouchi, T., et al. [1995,eng] 50-2580
- Surface spectrometry of arctic seasonal atmospheric ozone variations. Pommereau, J.P., et al. [1988,eng] 50-4636
- Synoptic approach to forecasting lake-effect snowfall. Ellis, A.W., et al. [1996,eng] 50-6062
- Temperature evolution of a chemically stratified lake. Spiegel, R.H., et al. [1996,eng] 50-6333
- Temperature variability beneath Ronne Ice Shelf, Antarctica, from thermistor cables. Nicholls, K.W., [1996,eng] 50-2846
- Temporal and spatial variations in hail in the upper Great Plains and Midwest. Changnon, S.A., Jr., [1984,eng] 50-4497
- Temporal characteristics of Pennsylvania snowfall, 1950-1951 through 1989-1990. Acker, J.C., et al. [1995,eng] 50-970
- Temporal evolution of under ice reflectivity. Laible, H.A., et al. [1996,eng] 50-4591
- Thermal regime of ice covered Swedish lakes. Bengtsson, L., et al. [1994,eng] 50-5696
- Thickness and ablation measurements of Fremont Glacier, Wyoming. Nafiz, D.L., et al. [1993,eng] 50-4796
- Topographical influence on Himalayan snow cover distribution. Singh, P., et al. [1995,eng] 50-4012
- Total ozone during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990,eng] 50-5974
- Tracer study of glacial drainage variations in Switzerland. Nienow, P., et al. [1996,eng] 50-5580
- Tree tissue xylem dysfunction from freezing stress. Hacke, U., et al. [1996,eng] 50-5773
- Two-year record of eolian sedimentation in the Wind River Range, Wyoming, U.S.A. Dahms, D.E., et al. [1996,eng] 50-5496
- Variability in nutrient concentrations around Elephant Island, Antarctica, during 1991-1993. Silva S., N., et al. [1995,eng] 50-941
- Variation in snowmelt alimentation of annual river runoff. Bolgov, M.V., et al. [1996,eng] 50-5860
- Volcanic ash variations in the antarctic stratosphere. Anderson, J., et al. [1996,eng] 50-5613
- Volcanic perturbation of the atmosphere in both polar regions: 1991-1994. Herber, A., et al. [1996,eng] 50-3444
- Water resources data for Alaska, water year 1994. Bigelow, B.B., et al. [1995,eng] 50-2169
- Winter 1994 weather and ice conditions for the Laurentian Great Lakes. Assel, R.A., et al. [1996,eng] 50-3294
- Winter methane dynamics in a temperate peatland. Melloh, R.A., et al. [1996,eng] 50-6052
- Winter-summer differences of carbon dioxide and oxygen in the Weddell Sea surface layer. Hoppema, M., et al. [1995,eng] 50-3006
- Yearly cycle of lower tropospheric ozone at the Arctic Circle. Rummukainen, M., et al. [1996,eng] 50-5614
- Yukon Territory snow survey bulletin & water supply forecast: April 1, 1996. Canada. Indian and Northern Affairs. Water Resources Division. [1996,eng] 50-4294
- Sediment transport**
- Ablation of debris-covered ice at Burroughs Glacier. Syverson, K.M., et al. [1995,eng] 50-3739
- Alaskan glacier basal ice deformation. Hart, J.K., [1995,eng] 50-1882
- Arctic coastal plain shorelines. Hill, P.R., et al. [1994,eng] 50-492
- Basal debris entrainment of Canadian arctic glaciers. Zdanowicz, C.M., et al. [1996,eng] 50-6247
- Bedrock topographic effects on subglacial erosion. Rea, B.R., et al. [1996,eng] 50-6249
- Biogenic composition of ice-rafted debris in Atlantic Ocean bottom sediment. van Kreveld, S.A., et al. [1996,eng] 50-5219
- Block moraine formation of antarctic glaciers. Fitzsimons, S.J., [1996,eng] 50-6242
- Braided outwash fans in the Gulf of Alaska. Boothroyd, J.C., et al. [1975,eng] 50-4814
- Cavities and the effective pressure between abrading clasts and bedrock. Hindmarsh, R.C.A., [1996,eng] 50-6237
- Channel erosion during flooding of alpine streams. Becht, M., [1996,ger] 50-5251
- Chinese loess accumulation compared to Greenland ice core climatology. An, Z.S., et al. [1995,eng] 50-1065
- Chronology of Upper Pleistocene stratified slope-waste deposits in central Italy. Coltorti, M., et al. [1996,eng] 50-6700
- Clastic sediment features in the sea area adjacent to the South Shetland Islands. Peng, Y.J., et al. [1989,chi] 50-6783
- Clay mineral signature of the NW Atlantic Boundary Undercurrent. Fagel, N., et al. [1996,eng] 50-4822
- Coastal environments of the western Kara and eastern Barents Seas. Pirman, S.L., et al. [1995,eng] 50-4558
- Comment on paper by Reid, Jr., et al. Sharp, R.P., et al. [1996,eng] 50-6540
- Composition and construction of late Pleistocene end moraines, Durango, Colorado. Johnson, M.D., et al. [1995,eng] 50-1859
- Concertina eskers, Brúarjökull, Iceland: an indicator of surge-type glacier behavior. Knudsen, O., [1995,eng] 50-1407
- Contributions to polar geomorphology by the German Spitsbergen expeditions 1990-1992. Blümel, W.D., [1993,eng] 50-1672
- Debris transfer and sedimentary environments: alpine glaciated areas. Johnson, P.G., [1995,eng] 50-4828
- Depositional sequences in glaciolacustrine deltas. Gustavson, T.C., et al. [1975,eng] 50-4818
- Diatoms in South Pole ice: implications for eolian contamination of Sirius Group deposits. Kellogg, D.E., et al. [1996,eng] 50-3387
- Discharge and fluvial sediment transport in a semi-arid Andean catchment. Barsch, D., et al. [1994,eng] 50-1544
- Dispersal of metal-contaminated sediments in an arctic river. Sear, D., et al. [1996,eng] 50-6516
- Distribution of river water and suspended sediments in the river deltas of the Laptev Sea. Ivanov, V.V., et al. [1995,eng] 50-2080
- Early Pleistocene glaciation in the Qinling Mountains of China. Rost, K.T., [1992,ger] 50-1682
- Early studies on stratified drift. Jopling, A.V., [1975,eng] 50-4807
- Ecological significance of German mountain periglacial deposits. Frühauf, M., [1990,ger] 50-4565
- Effect of river-ice break-up on suspended sediment and select trace-element fluxes. Milburn, D., et al. [1994,eng] 50-5698
- Effect of sedimentation on the advance of a fjord-type glacier. Motyka, R.J., et al. [1995,eng] 50-3736
- Effects of moraine-bank sediment budgets on valley glacier stability. Hunter, L.E., et al. [1996,eng] 50-6263
- Englacial drainage influence on sediment transport pathways. Kirkbride, M., et al. [1996,eng] 50-6255
- Erosion of the Laurentide region of North America by glacial and glaciofluvial processes. Bell, M., et al. [1990,eng] 50-1789
- Erosion rates and sediment evacuation by glaciers. Hallet, B., et al. [1996,eng] 50-5317
- Erosion rates and sediment yields of glaciers. Bogen, J., [1996,eng] 50-6239
- Evidence for Heinrich layers off Portugal (Tore Seamount: 39°N, 12°W). Lebreiro, S.M., et al. [1996,eng] 50-5220
- Fabric and structure in glaciofluvial gravels. Rust, B.R., [1975,eng] 50-4816
- Fabric signature of subglacial till deformation, Breidamerkjökull, Iceland. Benn, D.I., [1995,eng] 50-3863
- Factors controlling suspended sediment transport in Himalayan glacier meltwaters. Hasnain, S.I., [1996,eng] 50-5688
- Fluvial dynamics in the periglacial belt of the central Austrian Alps. Höfner, T., [1995,eng] 50-2751
- Fluvial morphology and streamflow on Deception Island, Antarctica. Inbar, M., [1995,eng] 50-4190
- Fluvial sediment transport in the Central Alps. Höfner, T., [1993,ger] 50-3335
- Flux of debris transported by ice at three Alaskan tidewater glaciers. Hunter, L.E., et al. [1996,eng] 50-4897
- Formation of De Geer moraines deposited subglacially, central Québec. Beaudry, L.M., et al. [1995,eng] 50-5035
- Forms of unusual patterned ground: examples from the Falkland Islands, South Atlantic. Wilson, P., [1995,eng] 50-2718
- Geochemistry of Lena River suspended sediments. Rachold, V., [1995,eng] 50-2095
- Glacial dispersal of mineralized bedrock mercury. Plouffe, A., [1995,eng] 50-882
- Glacial dynamics, material transfer and sedimentation in Spitsbergen. Sollid, J.L., et al. [1994,eng] 50-1585
- Glacial erosion as a consequence of subglacial sediment deformation. Boulton, G.S., [1996,eng] 50-4891
- Glacial or non-glacial origin for the Bigganjarga tillite, Finnmark, northern Norway. Jensen, P.A., et al. [1996,eng] 50-4395
- Glacial overdeepened valleys in the Austrian Alps. Van Husen, D., [1990,ger] 50-1790
- Glacial processes, sediments, landforms, and stratigraphy at Myrdalsjökull. Krüger, J., [1994,eng] 50-166
- Glacial terrestrial deposition. Whiteman, C.A., [1995,eng] 50-3589
- Glacial to modern changes in global river fluxes. Baker, V.R., [1994,eng] 50-1240
- Glacially-fed North Sea Quaternary sedimentation. King, E.L., et al. [1996,eng] 50-4877
- Glacier sediment transport. Kirkbride, M.P., [1995,eng] 50-3588
- Glacier-fed delta at a Barents Sea fjord. Laberg, J.S., et al. [1996,eng] 50-5921
- Glaciofluvial and glaciolacustrine sedimentation. Jopling, A.V., ed. et al. [1975,eng] 50-4806
- Global chemical weathering on glacial time scales. Kump, L.R., et al. [1994,eng] 50-1239
- Grounding line and mass balance effects on glacier stability. Hunter, L.E., [1994,eng] 50-694
- Gulf of Alaska paleoclimatological influence on marine ecology. Lagoe, M.B., et al. [1996,eng] 50-6625
- Hydraulic mining of permafrost placers by boreholes. Khurlev, A.S., [1991,eng] 50-1716
- Hydrology of a polythermal glacier, Erikbreen, northern Spitsbergen. Vatne, G., et al. [1995,eng] 50-3150
- Ice flow vectors on the debris-mantled Tasman Glacier. 1957-1986. Kirkbride, M., [1995,eng] 50-2717
- Ice force and scour instrumentation for the White River, Vermont. Zabilansky, L.J., [1996,eng] 50-6073
- Ice rafting sources for Younger Dryas detrital carbonate in the North Atlantic. Andrews, J.T., et al. [1995,eng] 50-1564

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- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., et al. [1995,eng] 50-2480
- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., et al. [1995,eng] 50-4039
- Ice-proximal sediment dynamics in Glacier Bay. Hunter, L.E., et al. [1995,eng] 50-3735
- Ice-rafted tephra sedimentation of the North Atlantic. Lacasse, C., et al. [1996,eng] 50-4140
- Iceland glacier drainage and sandar formation. Heim, D., [1992,ger] 50-364
- Identification of ice-rafted sediments in Atlantic Ocean bottom cores. Auffret, G.A., et al. [1996,eng] 50-5218
- Impact of subglacial groundwater flow on moraine formation. Boulton, G.S., et al. [1995,eng] 50-2129
- Influence of glacial deposits on river basin sedimentation. Campo, S.H., et al. [1994,eng] 50-2997
- Initial analyses of Eagle River Flats hydrology and sedimentology. Fort Richardson, Alaska. Lawson, D.E., et al. [1995,eng] 50-392
- Integrated approach to modelling hydrology and water quality in glacierized catchments. Richards, K.S., et al. [1996,eng] 50-6083
- Interaction between subglacial sediment and meltwater. Collins, D.N., [1996,eng] 50-6265
- Is erosion by deforming subglacial sediments significant? (Toward till continuity). Cuffey, K., et al. [1996,eng] 50-6235
- Isotope composition of the ice and subglacial geology near the Allan Hills. Faure, G., et al. [1993,eng] 50-6319
- Jökullhlaup from Katla in 1918. Tómasson, H., [1996,eng] 50-6268
- Late Quaternary flux of eolian dust to the pelagic ocean. Rea, D.K., et al. [1994,eng] 50-1242
- Late Wisconsinan outwash in southeastern British Columbia. Clague, J.J., [1975,eng] 50-4815
- Latest Quaternary foraminifers and sediment transport in Perovskits Canyon, Bering Sea. Starratt, S.W., [1995,eng] 50-3347
- Lipid geochemistry of the Kara Sea bottom sediments. Beliaeva, A.N., et al. [1996,eng] 50-4867
- Lobal interactions and rheologic superposition in subglacial till near Bradville, Ontario, Canada. Hickock, S.R., [1992,eng] 50-2550
- Lumped-element model for subglacial transport of solute and suspended sediment. Clarke, G.K.C., [1996,eng] 50-6254
- Marine clay deposits in ice water around the South Shetlands. Zhou, F.G., et al. [1989,chi] 50-6781
- Marine glacial deposition around the South Shetland Islands. Huang, H.Y., et al. [1989,chi] 50-6784
- Marine record of the Russell Fjord outburst flood, Alaska. U.S.A. Cowan, E.A., et al. [1996,eng] 50-6260
- Mass exchange between meltwater streams and proglacial deposits. Holmlund, P., et al. [1996,eng] 50-6241
- Meteorites as time markers on antarctic blue ice fields. Benoit, P.H., [1995,eng] 50-1408
- Model of shoreward movement of grounded lake ice. Sasaki, T., et al. [1995,eng] 50-3329
- Modern glacial environments: processes, dynamics and sediments. Menzies, J., ed. [1995,eng] 50-3580
- Modern glaciomarine environments. Powell, R.D., et al. [1995,eng] 50-3594
- Moraine bank ground-line process during coastal Maine deglaciation. Hunter, L.E., et al. [1996,eng] 50-6532
- Moraine formation from subglacial frozen sedimentation. Krüger, J., [1996,eng] 50-5830
- Natural and technogenic water and sediment supply to the Laptev Sea. Alabian, A.M., et al. [1995,eng] 50-2094
- Nature of esker sedimentation. Banerjee, I., et al. [1975,eng] 50-4811
- New indicator of glacial dispersal: lead isotopes. Bell, K., et al. [1995,eng] 50-1857
- Nivation in the High Tatras, Poland. Rączkowska, Z., [1995,eng] 50-4193
- Nomenclature applied to deposits formed in glacial and ice-contact environments. Hill, H.K., et al. [1996,eng] 50-5711
- Ocean bottom trenching by an Icelandic glacier. Björnsson, H., [1996,eng] 50-6252
- Origin of till sequences beneath mid-latitude ice sheets. Boulton, G.S., [1996,eng] 50-6243
- Paleoenvironmental implications of modern periglacial eolian deposits. Dijkman, J.W.A., et al. [1991,eng] 50-5172
- Paraglacial coasts. Forbes, D.L., et al. [1994,eng] 50-493
- Particle fluxes in the Kara Sea and Ob and Yenisey estuaries. Lisitsyn, A.P., et al. [1995,eng] 50-3543
- Particle interaction in fjord suspended sediment. Syvitski, J.P.M., et al. [1981,eng] 50-3764
- Periglacial landforms and sediments in Argentina. Trombotto, D., [1991,ger] 50-1684
- Periglacial landforms and sediments. Semmel, A., [1990,ger] 50-1793
- Permafrost influence on glacier sediment deformation. Eizelmler, B., et al. [1996,eng] 50-6240
- Permafrost, gelifluction and fluvial sediment transfer in the Austrian Alps. Veit, H., et al. [1993,eng] 50-1676
- Pleistocene-Holocene fluxes are not the Earth's norm. Hay, W.W., [1994,eng] 50-1237
- Predicting sediment load of Swiss rivers. Hunziker, R.P., [1995,ger] 50-4173
- Prince William Sound, Alaska beach tar ball origins. Kvenvolden, K.A., et al. [1995,eng] 50-1864

- Proceedings. International Symposium on Glacial Erosion and Sedimentation, Reykjavik, Iceland, Aug. 20-25, 1995. [1996,eng] 50-6232
- Proglacial fluvial and lacustrine environments. Church, M., et al. [1975,eng] 50-4808
- Protalus formation mechanisms in Norwegian sediments. Shakesby, R.A., et al. [1995,eng] 50-3328
- Quantification of Barents Sea Pleistocene bottom erosion. Rasmussen, E., et al. [1996,eng] 50-5311
- Quaternary record of eastern Svalbard—an overview. Landvik, J.Y., et al. [1995,eng] 50-4711
- Rates of rock surface lowering, Princess Elizabeth Land, eastern Antarctica. Spate, A.P., et al. [1995,eng] 50-4149
- Recent drumlins, flutes and lineations at Vestari-Hagafellsjökull, Iceland. Hart, J.K., [1995,eng] 50-1880
- Recent fluvial sediment budgets in glacial and periglacial environments, NW Spitsbergen. Barsch, D., et al. [1994,eng] 50-1584
- Regional-scale meltwater erosion and deposition patterns, northern Quebec, Canada. Brennand, T.A., et al. [1996,eng] 50-6244
- RIVER3: simulation of river discharge and sediment transport. Syvitski, J.P.M., et al. [1995,eng] 50-3597
- Role of sediment transport in the mechanics of jökullhlaups. Fowler, A.C., et al. [1996,eng] 50-6269
- Role of the large-scale Arctic Ocean circulation in the transport of contaminants. Schlosser, P., et al. [1995,eng] 50-4556
- Russian-German cooperation: Laptev Sea system. Kassens, H., ed. et al. [1995,eng] 50-2059
- Scottish landform examples. 9: Moraines in Coire na Creiche, Isle of Skye. Benn, D.I., [1993,eng] 50-3016
- Sea ice and sediment export from the Laptev Sea flow lead during 1991/92 winter season. Dethleff, D., [1995,eng] 50-2073
- Seasonal variations in arctic glacier sediment transport. Hodgkins, R., [1996,eng] 50-6253
- Sediment discharge from an Alaskan surging glacier. Merrand, Y., et al. [1996,eng] 50-6266
- Sediment flux along glaciated continental margins. Andrews, J.T., et al. [1994,eng] 50-1241
- Sediment flux from a fjord during glacial periods, Isfjorden, Spitsbergen. Hooke, R.L., et al. [1996,eng] 50-5318
- Sediment transport and discharge in a high arctic catchment (Liefdefjorden, NW Spitsbergen). Barsch, D., et al. [1994,eng] 50-1545
- Sediment transport by Laptev Sea ice. Reimnitz, E., et al. [1995,eng] 50-2072
- Sediment transport in glacial meltwater streams. Østrem, G., [1975,eng] 50-4809
- Sediment types and sedimentation of the northwestern sea area of the Antarctic Peninsula. Lin, C.Q., et al. [1989,chi] 50-6785
- Sediment yields, lithofacies and mudrock in glaciomarine environments. Cai, J.K., [1994,eng] 50-695
- Sedimentary and hydrologic processes within modern terrestrial valley glaciers. Lawson, D.E., [1995,eng] 50-3591
- Sedimentary environment of the Laptev Sea: preliminary results of the TRANSDRIFT II Expedition. Dehn, J., et al. [1995,eng] 50-2100
- Sedimentary model and dynamic process of the Great Wall Bay coast, Antarctica. Wang, X.L., [1989,chi] 50-6782
- Sedimentary successions in Pleistocene ice-marginal lakes. Shaw, J., [1975,eng] 50-4819
- Sedimentation and physical limnology in proglacial Malaspina Lake, southeastern Alaska. Gustavson, T.C., [1975,eng] 50-4817
- Sedimentation during needle ice growth in soil. Branson, J., et al. [1996,eng] 50-3646
- Sedimentation in glacier-fed Peyto Lake. Chikita, K., [1992,eng] 50-6642
- Sedimentology and geomorphology of fjords. Syvitski, J.P.M., et al. [1995,eng] 50-1116
- Sediments and landforms of modern proglacial terrestrial environments. Maizels, J., [1995,eng] 50-3592
- Sediments in the Liefdefjord and Woodfjord of Spitsbergen. Kroemer, E.A., et al. [1994,eng] 50-1580
- Sliding of glacial till over bedrock. Hindmarsh, R.C.A., [1996,eng] 50-6238
- Slope erosion processes in the Alps. Becht, M., [1995,eng] 50-4829
- Slush stream phenomena—process and geomorphic impact. Barsch, D., et al. [1993,eng] 50-1674
- Snowpack influences on geomorphic processes in Green Lakes Valley, Colorado Front Range. Caine, N., [1995,eng] 50-1404
- Solifluction controls in the French Alps. Pissart, A., [1993,eng] 50-839
- Some contributions to the study of landforms and geomorphic processes. Barsch, D., ed. et al. [1993,eng] 50-1671
- Statistical analysis of lithology of Arctic Ocean sediments. Darby, D.A., et al. [1996,eng] 50-5025
- Stratified slope deposits: the stone-banked sheets and lobes model. Berran, P., et al. [1995,eng] 50-4834
- Stratigraphy of Yorkshire, England glacial deposits. Evans, D.J.A., et al. [1995,eng] 50-6213
- Studies on Holocene fluvial geomorphodynamics on the upper Oberweser. Thomas, J., [1993,ger] 50-2769
- Subglacial ice accretion in an Alaskan glacier. Strasser, J.C., et al. [1996,eng] 50-6250
- Supraglacial debris transport over time. Whalley, W.B., et al. [1996,eng] 50-6258

- Surficial weathering fluxes and their geochemical controls. Lerman, A., [1994,eng] 50-1238
- Suspended sediments and organic carbon in Glacier Bay fjords. Cowan, E.A., [1995,eng] 50-3734
- Thrusting and debris entrainment in a surging glacier: Bakani-breen, Svalbard. Hambrey, M.J., et al. [1996,eng] 50-6267
- Till genesis through shear diffusion. Charbonneau, R., et al. [1995,eng] 50-3364
- Tunnel valley genesis. Cofaigh, C.Ó., [1996,eng] 50-5012
- Under cover transport and accumulation of frazil granules—discussion. Quo, Q.Z., et al. [1996,eng] 50-6337
- Weddell Sea glaciomarine sedimentation variations. Crawford, K., et al. [1996,eng] 50-6261
- West Antarctic ice sheet removal of subglacial volcanic artefacts. Behrendt, J.C., et al. [1995,eng] 50-2530
- Zero-velocity deicer spreaders clear more roadway for less. Banasiak, D., [1995,eng] 50-3675
- Sedimentation**
- "Ice Mountain"—a Pleistocene relict in the north of West Siberia. Rajamäe, R., et al. [1989,eng] 50-2897
- 130 years deposition record of sulfate, nitrate and chloride from a high-alpine glacier. Döschner, A., et al. [1995,eng] 50-4079
- 20th-century glaciomarine sedimentation in Vitus Lake, Bering Glacier, Alaska, U.S.A. Molnia, B.F., et al. [1996,eng] 50-6262
- ²³⁴Th as an indicator of particulate fluxes in the Kara Sea. Kupstov, V.M., et al. [1995,eng] 50-3544
- Aerosol deposition to an alpine tundra ecosystem. Sievering, H., et al. [1996,eng] 50-5964
- Age of pre-late-Wisconsinan glacial-estuarine sedimentation, Bristol Bay, Alaska. Kaufman, D.S., et al. [1996,eng] 50-4586
- Albedo of dirty snow during conditions of melt. Conway, H., et al. [1996,eng] 50-5969
- Arctic kelp community in the Alaskan Beaufort Sea. Dunton, K.H., et al. [1982,eng] 50-3681
- Barents Sea Pleistocene ice sheet growth deduced from marine sediment provenance. Elverhøi, A., et al. [1995,eng] 50-2012
- Basal ice facies and their formation in the western Alps. Hubbard, B., et al. [1995,eng] 50-2805
- Base Pliocene velocity inversion on the eastern Vøring Margin—causes and implications. Reemst, P., et al. [1996,eng] 50-5316
- Beach sedimentation on paraglacial coasts. Forbes, D.L., et al. [1995,eng] 50-1119
- Benthic-pelagic coupling in the Greenland-Norwegian Sea and its effect on the geological record. Graf, G., et al. [1995,eng] 50-747
- Benthic-pelagic coupling in the Greenland-Norwegian Sea and its effect on the geological record. Graf, G., et al. [1995,eng] 50-747
- Biogeochemical cycling in a seasonally anoxic lake. Hamilton-Taylor, J., et al. [1996,eng] 50-5818
- Biogeochemistry of sediment diagenesis at Kara Sea-Yenisey River boundary layer. Lein, A.U., et al. [1995,eng] 50-3535
- Bottom sediment chemical composition of the Kara Sea and estuaries. Gurvich, E.G., et al. [1995,eng] 50-3545
- Catastrophic drainage from ice-dammed glacial Lake Assiniboine. Wolfe, B., et al. [1995,eng] 50-4881
- Cenozoic deposition in the Nansen Basin, Barents Sea. Vågenes, E., [1996,eng] 50-5313
- Cenozoic deposition on the Svalbard continental shelf. Solheim, A., et al. [1996,eng] 50-5312
- Cenozoic erosion and sediment yield in the drainage area of the Storfjorden Fan. Hjelstuen, B.O., et al. [1996,eng] 50-5310
- Cenozoic shelf erosion of the Barents Sea margin. Fiedler, A., et al. [1996,eng] 50-5309
- Changes in trace element speciation in Kola north surface waters during snow melt. Rodushkin, I.V., et al. [1995,eng] 50-4080
- Clay minerals as sediment source indicators, Russian Arctic. Naidu, A.S., et al. [1995,eng] 50-1120
- Climatic implications of ostracode deposits in Greenland Quaternary sediments. Brouwers, E.M., et al. [1991,eng] 50-2564
- Climatological significance of moraine ridges in Iceland. Krüger, J., [1995,eng] 50-2858
- Comparison of tundra-steppe development in Beringia. Gierman, R.E., et al. [1982,eng] 50-3371
- Composition and construction of late Pleistocene end moraines, Durango, Colorado. Johnson, M.D., et al. [1995,eng] 50-1859
- Condensation nuclei production in the arctic polar vortex. Wilson, J.C., et al. [1990,eng] 50-5983
- Contributions of snow and fog to Greenland ice sheet ionic variations. Bergin, M.H., et al. [1995,eng] 50-586
- Danube River fluvial geomorphodynamics during the Quaternary. Buch, M.W., et al. [1995,eng] 50-2749
- Deforming bed conditions on the Dänischer Wohld Peninsula, northern Germany. Hart, J.K., et al. [1996,eng] 50-6536
- Deglaciation of a Late Devensian British ice sheet. Merritt, J.W., et al. [1995,eng] 50-1858
- Denitrification mechanisms in the polar stratospheres. Toon, O.B., et al. [1990,eng] 50-6001
- Deposit of atmospheric biphenyls in the Canadian Arctic. Gregor, D., et al. [1996,eng] 50-6521
- Depositional environment of the Laptev Sea shelf. Nürnberg, D., et al. [1995,eng] 50-940
- Determination of total carbonate content in some representative loess-paleosol profiles. Gerei, L., et al. [1995,eng] 50-1043

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- Development of the middle and lower course of the Weser River during the Late Pleistocene. Meinke, K., [1995,eng] 50-2746
- Developmental conditions of the Farnham bog, Québec. Lavoie, M., et al. [1995,fr] 50-4885
- Diamond exploration in glaciated terrain: a Russian perspective. Golubev, I.U.K., [1995,eng] 50-1092
- Diatom distribution on Baffin Island, Canada. Wolfe, A.P., [1996,eng] 50-6514
- Diatoms in South Pole ice: implications for eolian contamination of Sirius Group deposits. Kellogg, D.E., et al. [1996,eng] 50-3387
- Distribution of oxygen and nutrients in the Laptev Sea in summer. Pivovarov, S.V., et al. [1995,eng] 50-2079
- Dissolved organic matter in arctic sea ice. Thomas, D.N., et al. [1995,eng] 50-717
- Distribution of metals in Laptev Sea pore waters. Langer, C., [1995,eng] 50-2103
- Distribution of pesticide residues in arctic coastal ecosystems. Bright, D.A., et al. [1995,eng] 50-4747
- Distribution of river run-off in the Laptev Sea: the environmental effect. Dmitrenko, I.A., et al. [1995,eng] 50-2077
- East Beringia during Late Wisconsin time: a review of the biotic evidence. Matthews, J.V., Jr., [1982,eng] 50-3374
- Eastern Canadian Arctic at ca. 6 ka BP: a time of transition. Williams, K.M., et al. [1995,eng] 50-1450
- Ecogeochemical investigations, Kola Peninsula: sulphur and trace element content in snow. Ayrás, M., et al. [1995,eng] 50-4081
- Ecosystem dynamics of the Bering and Chukchi Seas. Tsyban', A.V., [1995,eng] 50-3608
- Electron scanning of Quaternary deposit grain shape. Molnár, B., et al. [1995,eng] 50-1040
- Englacial drainage influence on sediment transport pathways. Kirkbride, M., et al. [1996,eng] 50-6255
- Eskers: an essay of bibliographic review. Levasseur, D., [1995,fr] 50-5042
- Estimation of the autochthonous detritus flux through plankton communities of the Kara Sea. Lebedeva, L.P., et al. [1995,eng] 50-3541
- Evaluation of vacuum-insulated tubing for paraffin control at Norman Wells. Purdy, I.L., et al. [1991,eng] 50-1727
- Evidence for a fluidized till deposit on the Ross Sea continental shelf. Jahns, E., [1994,eng] 50-2695
- Evidence for Holocene seismic triggering of Arctic Ocean turbidities. Grantz, A., et al. [1996,eng] 50-6223
- Expanded record of Quaternary oceanographic change: Amerasia Arctic Ocean. Ishman, S.E., et al. [1996,eng] 50-3388
- Ferromanganese nodules of the Kara Sea. Bogdanov, I.U.A., et al. [1995,eng] 50-3547
- Final stages in Laurentide ice sheet collapse, Hudson Strait. Andrews, J.T., et al. [1995,eng] 50-6556
- First results of $^{15}\text{N}/^{14}\text{N}$ ratios in nitrate from alpine and polar ice cores. Freyer, H.D., et al. [1996,eng] 50-3724
- Foraminiferal evidence for Greenland environmental change. Jennings, A.E., et al. [1995,eng] 50-6079
- Foraminiferal evidence of Younger Dryas age cooling on the British Columbia shelf. Patterson, R.T., et al. [1995,eng] 50-5039
- Forest fire records inferred from Greenland ice core chemistry. Legrand, M., et al. [1996,eng] 50-3447
- Freshwater impact on Hudson bay ecosystems under sea ice, pt.2. Legendre, L., et al. [1996,eng] 50-4020
- Geochemistry of volcanic ashes from Greenland Basin. Haase, K.M., et al. [1996,eng] 50-5267
- Glacial-ice fragments in antarctic sea ice. Haas, C., et al. [1995,eng] 50-4664
- Glacier-fed delta at a Barents Sea fjord. Laberg, J.S., et al. [1996,eng] 50-5921
- Glacioclastic sedimentation in the vicinity of Warka during the Warta Glaciation. Grzybowski, K., [1993,pol] 50-3655
- Gould Pond, Maine: late-glacial transitions from marine to upland environments. Anderson, R.S., et al. [1992,eng] 50-2561
- Historical records of fatty acids in an ice core from Site-J, Greenland. Kawamura, K., et al. [1995,eng] 50-3247
- Holocene debris-flow activity in northern Sweden. Jonasson, C., [1993,eng] 50-837
- Holocene environmental changes in a Tibetan lake basin. pt.1. Fontes, J.C., et al. [1996,eng] 50-5090
- Holocene evolution of a stretch of an eastern Italian alpine valley. Friz, C., et al. [1995,eng] 50-6697
- Hydrochemical characteristics of the Kara Sea. Makkaveev, P.N., et al. [1995,eng] 50-3532
- Ice age terrestrial carbon changes revisited. Crowley, T.J., [1995,eng] 50-1148
- Ice flow vectors on the debris-mantled Tasman Glacier. 1957-1986. Kirkbride, M., [1995,eng] 50-2717
- Ice-rafted tephra sedimentation of the North Atlantic. Lacasse, C., et al. [1996,eng] 50-4140
- Iceberg sediment deposits in a Greenland glaciomarine setting. Syvitski, J.P.M., et al. [1996,eng] 50-5319
- Identification of elements of fluvio-glacial shapes characteristic of glacial outbursts. Robitaille, A., et al. [1995,fr] 50-5041
- Impact of climate change on carbon cycle in freshwater ecosystems. Kankaala, P., et al. [1994,eng] 50-3201
- Influence of glacial deposits on river basin sedimentation. Campo, S.H., et al. [1994,eng] 50-2997
- Initial analyses of Eagle River Flats hydrology and sedimentology. Fort Richardson, Alaska. Lawson, D.E., et al. [1995,eng] 50-392
- Inverse relation between ice extent and the late Paleozoic glacial record of Gondwana. González-Bonorino, G., et al. [1995,eng] 50-1807
- Isotope analysis of Arctic Ocean ice algae primary productivity. Hobson, K.A., et al. [1995,eng] 50-3359
- Isotopic climatic records in the Allerød-Belling-Younger Dryas and post-Younger Dryas events. Epstein, S., [1995,eng] 50-2804
- Isotopic chronologies of Chukchi Sea continental shelf sediment fluxes. Baskaran, M., et al. [1995,eng] 50-1805
- Landform and sediment associations of dry-based glaciers in arid polar environments. Humphreys, K.A., et al. [1996,eng] 50-6577
- Late Cenozoic evolution of the western Barents Sea-Svalbard continental margin. Faleide, J.I., et al. [1996,eng] 50-5308
- Late Cenozoic history of the Scandinavian and Barents Sea ice sheets. Mangerud, J., et al. [1996,eng] 50-5305
- Late Cenozoic sedimentation and uplift history on the mid-Norwegian continental shelf. Henriksen, S., et al. [1996,eng] 50-5315
- Late glacial sedimentation and history of the Lake Nipigon Basin, Ontario. Lemoine, R.M., et al. [1995,eng] 50-4880
- Late Quaternary environmental history of Bátoriget, N.E. Hungary. Willis, K.J., et al. [1995,eng] 50-2165
- Late Quaternary paleoceanography of the mid- to outer continental shelf, East Greenland. Williams, K.M., et al. [1995,eng] 50-2810
- Late Weichselian glacial maximum on Andøya, north Norway. Møller, J.J., et al. [1992,eng] 50-2546
- Linking physical property records of Quaternary sediments to Heinrich events. Chi, J., et al. [1996,eng] 50-5221
- Loess-paleosol dating method. Zhu, Z.Y., [1995,eng] 50-1050
- Major paleogeographic changes in alpine foreland during the Pliocene-Pleistocene. Petit, C., et al. [1996,eng] 50-6538
- Marginal filter of the ocean. Lisitsyn, A.P., [1995,eng] 50-3542
- Marine sedimentation rates as evidence of continental glaciation. Goldschmidt, P.M., [1995,eng] 50-1828
- Metal hydrolysis on a deeply cooled ice surface. Winter, H., et al. [1995,eng] 50-1102
- Methods for classifying apparently homogeneous loess sequences. Molnár, B., et al. [1995,eng] 50-1041
- Microbial responses to nitrogen additions in alpine tundra soil. Fisk, M.C., et al. [1996,eng] 50-6065
- Microbiological activity in thermoglacial karst springs. South Spitsbergen. Lauritzen, S.E., et al. [1995,eng] 50-1403
- Middle and Late Pleistocene evolution of the Bear Island Trough Mouth Fan. Laberg, J.S., et al. [1996,eng] 50-5322
- Mineral composition of the fine-dispersed fractions of loess and soil processes developed in them. Chizhikova, N.P., et al. [1995,eng] 50-1042
- New radiocarbon dates for the Vedde ash and the Saksunarvatn ash from western Norway. Birks, H.H., et al. [1996,eng] 50-4576
- Nonglacial interval in Canadian Pleistocene sediments. Hicock, S.R., et al. [1995,eng] 50-1087
- North Atlantic paleoclimatic effects on primary productivity. Versteegh, G.J.M., et al. [1996,eng] 50-6620
- North Sea paleoenvironments during the last deglaciation. Knudsen, K.L., et al. [1996,eng] 50-6534
- North Sea paleoenvironments during the last deglaciation. Knudsen, K.L., et al. [1996,eng] 50-6534
- Numerical modelling of North Atlantic Quaternary sedimentation. Haupt, B.J., et al. [1995,eng] 50-750
- Observations of anomalous oceanic crust in the Canada Basin, Arctic Ocean. Jackson, H.R., et al. [1995,eng] 50-410
- Observations of the grounding-line area at a floating glacier terminus. Powell, R.D., et al. [1996,eng] 50-6264
- Ozone deposition in a subarctic woodland, pt.1. Munger, J.W., et al. [1996,eng] 50-6641
- Paleoecological reconstruction of the Late Pleistocene, based on loess Malacoфаuna in Hungary. Krolopp, E., et al. [1995,eng] 50-1048
- Paleoecology of two lake basins from Disko, West Greenland. Bennike, O., [1995,eng] 50-1081
- Paleoclimatic change from Lake Baikal sediments. Edgington, D.N., et al. [1996,eng] 50-6633
- Paleoclimatic changes on the northern side of the central Himalaya. Fort, M., [1996,eng] 50-5096
- Paleoclimatic import of gravel deposits on a Chinese plateau. Liu, T.S., et al. [1996,eng] 50-5098
- Paleoclimatic models of Chinese loess and paleosol sequences. Thompson, R., et al. [1995,eng] 50-2542
- Paleoclimatic reconstructions from antarctic volcanic ash deposits. Marchant, D.R., et al. [1996,eng] 50-4233
- Paleoecological study of fire-induced lake water acidity variations. Korhola, A., et al. [1996,eng] 50-5020
- Paleoecological study of Pleistocene mountain vegetation patterns. Gregory, K.M., et al. [1996,eng] 50-5081
- Paleoecology of arctic lake sediment macrofossils. Birks, H.H., [1991,eng] 50-3305
- Paleoglacial events on Baffin Island, Labrador Sea. Fillon, R.H., et al. [1981,eng] 50-3621
- Paleomagnetic changes within the Brunhes Epoch in the Basarac loess profile, Hungary. Balogh, J., [1995,eng] 50-1051
- Paleomagnetic constraints on sedimentation rates in the eastern Arctic Ocean. Schneider, D.A., et al. [1996,eng] 50-6707
- Palyngology and sediment slumping in a high arctic Greenland lake. Fredskild, B., [1995,eng] 50-3368
- Parent materials of Wrangel Island. Oganessian, A.Sh., et al. [1995,eng] 50-1052
- Peat bog paleoclimatology and ecology adjoining an Italian glacier. Burga, C.A., [1995,fr] 50-862
- Peculiarities of diatom thanatocenoses formation in the sediments of the Eurasian arctic seas. Poliakova, E.I., [1995,eng] 50-2536
- Pelagic processes in the Norwegian and Greenland Seas. von Bodungen, B., et al. [1995,eng] 50-746
- Plankton ecosystems in the Norwegian and Greenland Sea. Samtleben, C., et al. [1995,eng] 50-749
- Pleistocene altiplanation in northern Chile. Kött, A., et al. [1995,eng] 50-4947
- Pleistocene foraminifera in Arctic Ocean piston cores. Evans, J.R., et al. [1995,eng] 50-3348
- Pleistocene geomorphology of Qinghai Lake, China. Nakao, K., et al. [1995,eng] 50-6717
- Pleistocene glacial lake sedimentology, Scotland. Benn, D.I., [1996,eng] 50-5827
- Pleistocene lacustrine record of a Chinese lake. Rhodes, T.E., et al. [1996,eng] 50-5095
- Pleistocene slope deposits related to the Saint-Maurice Rhythmites, St. Lawrence Valley, Québec. Héu, B., et al. [1995,fr] 50-4883
- Pleistocene stratigraphy in the Lappajärvi meteorite crater in Ostrobothnia, Finland. Salonen, V.P., et al. [1992,eng] 50-2556
- Pleistocene stratigraphy of the Athabasca River valley region, Rocky Mountains, Alberta. Levson, V.M., et al. [1995,eng] 50-5037
- Pleistocene-Holocene fluxes are not the Earth's norm. Hay, W.W., [1994,eng] 50-1237
- Pliocene record in the central Arctic Ocean. Clark, D.L., [1996,eng] 50-6626
- Pliocene sand ridges at the Barents Sea margin. Knutsen, S.M., et al. [1996,eng] 50-5314
- Post-sedimentation frozen structures in Late Pleistocene deposits in Gdańsk Bay. Rosa, B., [1989,pol] 50-2901
- Proceedings. International Symposium on Biogeochemistry of Seasonally Snow-covered Catchments, Boulder, CO, July 14-19, 1995. [1995,eng] 50-2391
- Proceedings. International Symposium on Glacial Erosion and Sedimentation, Reykjavik, Iceland, Aug. 20-25, 1995. [1996,eng] 50-6232
- Products of subglacial volcanic eruptions under different ice thicknesses. Smellie, J.L., et al. [1994,eng] 50-2993
- Proglacial formation mechanisms in Norwegian sediments. Shakesby, R.A., et al. [1995,eng] 50-3328
- Quaternary fluvio-morphological processes. Bibus, E., et al. [1995,eng] 50-2747
- Quaternary Fourier stratigraphy: orbital templates and Milankovitch anomalies. Berger, W.H., [1994,eng] 50-1066
- Quaternary geology of the Buchans area, Newfoundland: implications for mineral exploration. Klassen, R.A., et al. [1996,eng] 50-6634
- Quaternary sedimentary processes and budgets in Orphan Basin, southwestern Labrador Sea. Hiscott, R.N., et al. [1996,eng] 50-4579
- Quaternary stratigraphy of the buried valleys of the lower Red Deer River, Alberta, Canada. Evans, D.J.A., et al. [1995,eng] 50-1080
- Radiocarbon geochemistry of modern and ancient arctic lake systems, Baffin Island, Canada. Abbott, M.B., et al. [1996,eng] 50-5190
- Record of Holocene paleoclimate changes from glacial marine sediments in Lallemand Fjord. Shevenell, A.E., [1996,eng] 50-4074
- Record of Warta processes in the base of the mountain Ner River valley. Turkowska, K., [1993,pol] 50-3667
- Redistribution of reactive odd nitrogen in the lower arctic stratosphere. Hübler, G., et al. [1990,eng] 50-6002
- Relevance of glacial bed debris to glacial mechanics. Gow, A.J., et al. [1996,eng] 50-6251
- River pollution of Russian northern seas. Rovinskiĭ, F.I.A., et al. [1995,eng] 50-6548
- Role of principles and methods in loess-paleosol investigations. Pécsi, M., [1995,eng] 50-1035
- Russian oceanographic expedition in the Kara Sea. Lisitsyn, A.P., et al. [1995,eng] 50-3530
- Russian-German cooperation: Laptev Sea system. Kassens, H., ed. et al. [1995,eng] 50-2059
- Sediment flux along glaciated continental margins. Andrews, J.T., et al. [1994,eng] 50-1241
- Sediment transport by Laptev Sea ice. Reimnitz, E., et al. [1995,eng] 50-2072
- Sedimentary environment of the Laptev Sea: preliminary results of the TRANSDRIFT II Expedition. Dehn, J., et al. [1995,eng] 50-2100
- Sedimentary environments associated with glacial Lake Trimmingham, Norfolk, UK. Hart, J.K., [1992,eng] 50-2554
- Sedimentary paleoclimatic indicators: what they are and what they tell us. Parrish, J.T., et al. [1993,eng] 50-1208
- Sedimentary petrogenesis and its characteristics in the cryolithozone. Danilov, I.D., [1995,eng] 50-6074
- Sedimentary structures of cold-climate coastal dunes, eastern Hudson Bay, Canada. Ruz, M.H., et al. [1995,eng] 50-3862
- Sedimentation and mixing rates of radionuclides in Barents Sea sediments off Novaya Zemlya. Smith, J.N., et al. [1995,eng] 50-4561
- Sedimentation at a tidewater glacier in Arthur Harbor. Ashley, G.M., et al. [1994,eng] 50-2223
- Sedimentological data on cores from the Joides Basin. Corradi, N., et al. [1995,eng] 50-4394

Sediments

Seepage

- Sedimentology and geomorphology of drumlins in western Allgäu, south Germany. De Jong, M.G.G., et al. [1982,eng] 50-3381
- Sedimentology and geomorphology of fjords. Syvitski, J.P.M., et al. [1995,eng] 50-1116
- Seismic survey of the Ross Sea continental shelf. Shipp, S.S., et al. [1994,eng] 50-2694
- Selected aspects of the physical oceanography and particle fluxes in fjords of northern Norway. Wassmann, P., et al. [1996,eng] 50-5571
- Sequence analysis of Canadian glaciolacustrine deposits. Martini, I.P., et al. [1995,eng] 50-1084
- Sequence types of Upper Quaternary deposits in the Kara Sea. Levitan, M.A., et al. [1995,eng] 50-3546
- Simple model to estimate atmospheric concentrations of aerosol chemical species based on snow core chemistry at Summit, Greenland. Bergin, M.H., et al. [1995,eng] 50-3097
- Simulation of Quaternary loess deposit magnetic profiles. Anderson, R.S., et al. [1996,eng] 50-4584
- Snowbed bryophyte tissue composition related to air pollution. Woolgrove, C.E., et al. [1996,eng] 50-4004
- Solid phase sedimentation in the Barents Sea. Hulth, S., et al. [1996,eng] 50-6723
- Some lithological-geochemical features of modern bottom sediments of the Laptev Sea shelf. Iakovlev, A.V., [1995,eng] 50-2101
- Some questions of the Pleistocene sedimentation of the Barents Sea shelf. Tarasov, G.A., [1993,eng] 50-2213
- Stability of sublittoral, fine-grained sediments in a subarctic estuary. Amos, C.L., et al. [1996,eng] 50-4044
- Statistical analysis of lithology of Arctic Ocean sediments. Darby, D.A., et al. [1996,eng] 50-5025
- Study of brash ice in the proximal marine zone of a sub-polar tidewater glacier. Smith, N.D., et al. [1996,eng] 50-6224
- Study of the calcareous microfauna from Laptev Sea sediments. Bauch, H.A., et al. [1995,eng] 50-2102
- Sulfate deposition over the Arctic Ocean. Smith, L., [1995,eng] 50-643
- Supraglacial sediment accretion in Icelandic glaciers. Näslund, J.O., et al. [1996,eng] 50-4904
- Surface sediment mineralogy of the Laptev Sea. Wahsner, M., [1995,eng] 50-2099
- The presence of metastable $\text{HNO}_3/\text{H}_2\text{O}$ solid phases in the stratosphere inferred from ER 2 data. Tabazadeh, A., et al. [1996,eng] 50-5254
- Thermoluminescence ages of loess and associated sediments in central Nebraska, USA. Pye, K., et al. [1995,eng] 50-2166
- Toba eruption sulfates recorded in GISP2 ice core. Zielinski, G.A., et al. [1996,eng] 50-5288
- Trace elements in the Weddell Sea water and sediments in the continental shelf area. Niemistö, L., et al. [1995,eng] 50-1952
- Trichloroacetic acid in conifer needles and arboreal lichens in forest environments. Juuti, S., et al. [1996,eng] 50-4206
- Tropospheric dehydration by subvisible cirrus clouds. Jensen, E.J., et al. [1996,eng] 50-5287
- Two-year record of eolian sedimentation in the Wind River Range, Wyoming. U.S.A. Dahms, D.E., et al. [1996,eng] 50-5496
- Valley bottoms in the late Quaternary. Schirmer, W., [1995,eng] 50-2748
- Weddell Sea glaciomarine sedimentation variations. Crawford, K., et al. [1996,eng] 50-6261
- Sediments**
- 10,000-years dynamics of limnic ecosystems and climatic change. Salonen, V.-P., et al. [1994,eng] 50-3182
- Alpine "ice-man" and Holocene climatic change. Baroni, C., et al. [1996,eng] 50-6708
- Antarctic bottom water formation and the global cadmium to phosphorus relationship. Frew, R.D., [1995,eng] 50-752
- Arctic Ocean echosounding records. Bergmann, U., [1995,ger] 50-3155
- Characteristics of basal ice at Engabreen, northern Norway. Jansson, P., et al. [1996,eng] 50-6248
- Chemical-mineralogical characteristics of the water and sediments in the Penumbukta tidal area. Stankowska, A., [1989,pol] 50-2888
- Cleansing role of clay-oil flocculation in shoreline sediments following an oil spill. Bragg, J.R., et al. [1995,eng] 50-3918
- Cleansing role of clay-oil flocculation in shoreline sediments following an oil spill. Bragg, J.R., et al. [1995,eng] 50-3918
- Climate of the penultimate ice age according to data from an antarctic ice core. Kotliakov, V.M., et al. [1993,rus] 50-4103
- Cryolithological structure of Quaternary deposits on Wrangel Island. Kotov, A.N., et al. [1996,rus] 50-6379
- Determination of alpine treeline variations from soil charcoal sediments. Carcailliet, C., et al. [1996,eng] 50-4746
- Development of an Alaskan North Slope soils database for drill cuttings reclamation. Schumacher, J.P., et al. [1991,eng] 50-1722
- Diagnostics of glacial and glacial-marine deposits and relief forms in Spitsbergen. Luchinskaja, T.N., et al. [1972,rus] 50-545
- Diamictite facies in the middle glacial periods. Olszewski, A., [1989,pol] 50-2895
- Distribution of cesium-137 in Bering and Chukchi Sea marine sediments. Cooper, L.W., et al. [1995,eng] 50-5062
- Dusting river ice with leaf mulch to aid in ice deterioration. Haehnel, R.B., et al. [1993,eng] 50-6072
- Expedition ANTARKTIS-X/3 of *Polarstern* in 1994. Miller, H., et al. [1996,ger] 50-4325
- Expedition ARKTIS-X/2 of *RV Polarstern* in 1994. Hubberten, H.W., ed. [1995,eng] 50-1548
- Fossil burrows of mammals in the loess-ice deposits of the Kolyma-Indigirka Lowland. Gubin, S.V., et al. [1996,eng] 50-4146
- Full-glacial shoreline vegetation during the maximum highstand at Owens Lake, California. Koehler, P.A., et al. [1994,eng] 50-1543
- Geochemistry of niveo-eolian sediments in Spitsbergen. Górniak, A., et al. [1993,eng] 50-2200
- Geochemistry of organic matter in oil- and gas-bearing sediments in Western Yakutia. Bodunov, E.I., ed. [1984,rus] 50-5006
- Glacial or non-glacial origin for the Bigganjarga tillite, Finnmark, northern Norway. Jensen, P.A., et al. [1996,eng] 50-4395
- Glacio-isostatic implications of Swedish Holocene shore displacement. Berglund, M., [1995,eng] 50-3367
- Granulometric investigations of loess profiles in Hungary. Kis, E., [1995,eng] 50-1039
- Greenland ice core sediments correlated with oceanic sediments. Grönvold, K., et al. [1995,eng] 50-1251
- High precision ^{230}Th and ^{234}Th in the Norwegian Sea and Denmark by thermal ionization mass spectrometry. Moran, S.B., et al. [1995,eng] 50-2022
- Holocene climate fluctuations and geomorphic impact of extreme events in Svalbard. André, M.F., [1995,eng] 50-4192
- Influence of glaciation on the basin temperature regime. Johansen, H., et al. [1996,eng] 50-5328
- Laboratory study of sediment deformation: stress heterogeneity and grain-size evolution. Iverson, N.R., et al. [1996,eng] 50-6256
- Lake surface pollen sediments across the Siberian tree line. Clayden, S.L., et al. [1996,eng] 50-6746
- Laptev Sea System: Expeditions in 1994. Kassens, H., ed. [1995,eng] 50-3156
- Long-term ice-sheet stability study in Ross Sea cores. Licht, K., et al. [1994,eng] 50-1893
- Mammoth extinction: two continents and Wrangel Island. Martin, P.S., et al. [1995,eng] 50-650
- Meteorites as time markers on antarctic blue ice fields. Benoit, P.H., [1995,eng] 50-1408
- Model of frozen strata in the cryolithozone. Gravis, G.F., [1996,rus] 50-6373
- Natural cleaning of oiled coarse sediment shorelines in arctic and Atlantic Canada. Owens, E.H., et al. [1994,eng] 50-6231
- Nilssoniocladus* in the Cretaceous Arctic: new species and biological insights. Spicer, R.A., et al. [1996,eng] 50-6541
- North Pacific rapid climate variability. Kotilainen, A.T., et al. [1995,eng] 50-338
- Ocean thermohaline circulations compared. Yu, E.F., et al. [1996,eng] 50-5153
- Oil pollution in Arctic waters. Futsaeter, G., et al. [1991,eng] 50-3421
- Oil-soluble resin-diverting agents in Prudhoe Bay acidizing operations. Strassner, J.E., et al. [1991,eng] 50-1698
- On the sedimentological character of alpine basal ice facies. Hubbard, B., et al. [1996,eng] 50-6259
- Open-cast underground technology of permafrost placer mining in the Arctic. Lavrov, N.P., et al. [1991,eng] 50-1717
- Organic deposits at the bottom and top of sediments suggested to be Wartian. Goździk, J., et al. [1993,pol] 50-3654
- Paleoclimatic atmospheric chemical changes inferred from fossil leaf density. Beerling, D.J., et al. [1995,eng] 50-6563
- Periglacial elements in the geological structure and relief of northern Częstochowa. Kobczyk, S., [1990,pol] 50-4941
- Periphytic diatom assemblages from high arctic ponds. Douglas, M.S.V., et al. [1995,eng] 50-1460
- Persistence of white phosphorus particles in sediment. Walsh, M.E., et al. [1995,eng] 50-878
- Petroleum-producing sequences in the Phanerozoic deposits of the arctic islands. Danushevskaja, A.I., [1996,eng] 50-5704
- Post-sedimentation frozen structures in Late Pleistocene deposits in Gdańsk Bay. Rosa, B., [1989,pol] 50-2901
- Postglacial development of river valleys in the middle part of the northern slope of Pomerania. Florek, W., [1991,pol] 50-4940
- Postglacial development of river valleys in the middle part of the northern slope of Pomerania. Florek, W., [1991,pol] 50-4940
- Prince William Sound, Alaska beach tar ball origins. Kvenvolden, K.A., et al. [1995,eng] 50-1864
- Profile of the sub-moraine organogenetic sediments in the fore-field of the Renard Glacier. Dzierzek, J., et al. [1989,pol] 50-2890
- Radiocarbon dating evidence for mammoths on Wrangel Island, Arctic Ocean, until 2000 BC. Vartanian, S.L., et al. [1995,eng] 50-649
- Rapid screening of metals using portable high-resolution x-ray fluorescence spectrometers. Hewitt, A.D., [1995,eng] 50-1075
- Raw oil and gas bedrock potential of organic matter sediments. Gretskaia, E.V., [1990,rus] 50-4942
- Sample representativeness: The missing element in explosives site characterization. Jenkins, T.F., et al. [1996,eng] 50-5960
- Secondary precipitates in Pleistocene and present cryogenic environments. Vogt, T., et al. [1996,eng] 50-4045
- Sediment-based carbon nutrition in tropical alpine *Isoetes*. Keeley, J.E., et al. [1994,eng] 50-3052
- Sediments from the southern Weddell Sea. Melles, M., et al. [1995,eng] 50-5442
- Seismic investigation of glacial tunnel channels. Pugin, A., et al. [1996,eng] 50-6257
- Shoreline ecology program following the Exxon Valdez oil spill, pt.1. Page, D.S., et al. [1995,eng] 50-3921
- Shoreline ecology program following the Exxon Valdez oil spill, pt.2. Boehm, P.D., et al. [1995,eng] 50-3924
- Shoreline ecology program following the Exxon Valdez oil spill, pt.3. Gilfillan, E.S., et al. [1995,eng] 50-3925
- Shoreline impacts in the Gulf of Alaska region following the Exxon Valdez oil spill. Gilfillan, E.S., et al. [1995,eng] 50-3926
- Simple field screening method for white phosphorus (P_4) in sediment. Walsh, M.E., et al. [1995,eng] 50-2328
- Solid phase extraction of nitroaromatics from water. Jenkins, T.F., et al. [1995,eng] 50-1977
- Some features of the Warta glaciogenic deposits in central Poland. Klarkowa, H., [1993,pol] 50-3658
- Stratigraphic setting and paleogeography of the Warta Glaciation in northeastern Poland. Krupański, K.M., et al. [1993,pol] 50-3661
- Stratigraphy of valley sediments of Polish river drainage basins. Superson, J., [1995,eng] 50-2616
- Symposium on Environmental Toxicology and Risk Assessment, 3rd, Atlanta, GA, Apr. 26-28, 1993. Exxon Valdez oil spill: fate and effects in Alaska waters. [1995,eng] 50-3914
- Two-step degradation of the southeastern Barents Sea. Poliak, L., et al. [1995,eng] 50-561
- Use of karst deposits in the French Jura for paleoclimatological analysis. Chalain, J., et al. [1995,eng] 50-1122
- Use of mussels to assess bioavailability of hydrocarbons from the Exxon Valdez oil spill. Shigenaka, G., et al. [1995,eng] 50-3920
- Warming at 18,000 yr B.P. in the tropical Andes. Helmens, K.F., et al. [1996,eng] 50-5189
- See [also]:** Alluvium; Avalanche deposits; Bottom sediment; Glacial deposits; Lacustrine deposits; Marine deposits; Moraines; Outwash; Quaternary deposits; Suspended sediments
- Seepage**
- Albedo of dirty snow during conditions of melt. Conway, H., et al. [1996,eng] 50-5969
- Alternative road construction for stormwater management in cold climates. Stenmark, C., [1995,eng] 50-2532
- Assessing frost damage in compacted clay liners. Benson, C.H., et al. [1995,eng] 50-1133
- Deposition of semivolatile organic chemicals by snow. Franz, T.P., Jr., [1994,eng] 50-372
- Development and stability of preferential flow paths in a layered snowpack. Schneebeli, M., [1995,eng] 50-2402
- Effects of capillary discontinuities on water flow and water retention in layered snowcovers. Jordan, R., [1995,eng] 50-2472
- Effects of tree litter decomposition on forest soil composition. Harris, M.M., et al. [1996,eng] 50-3309
- Estimating soil temperatures and frost in the lake effect snowbelt region, Michigan, USA. Isard, S.A., et al. [1995,eng] 50-1140
- Experimental system for one-dimensional freezing of undisturbed soil profiles. Johansson, H., et al. [1995,eng] 50-3758
- Filtration permeability of permafrost. Olovin, B.A., [1993,rus] 50-89
- Flow and freezing boundary conditions for snow-melt infiltration into a frozen soil. Tao, Y.X., et al. [1993,eng] 50-4550
- Frost heave investigation of 1 275. Novak, E.C., Jr., [1982,eng] 50-2058
- Geochemical analyses of Exxon Valdez oil spill. Bence, A.E., et al. [1996,eng] 50-6339
- Heat transfer in a snow cover. Zviagin, V.V., et al. [1990,rus] 50-1614
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995,eng] 50-3125
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995,eng] 50-6043
- Impermeable and permeable zones in permafrost. Olovin, B.A., [1996,eng] 50-6486
- Incorporation of a drainage layer and infiltration into FROST. Abdel-Salam, A., et al. [1993,eng] 50-6050
- Infiltration of snowmelt and heat transfer into frozen soil. Zhao, L.T., et al. [1996,eng] 50-6480
- Land application turns wastewater into ice cubes. Madison, M., et al. [1994,eng] 50-2122
- Model of effects of global warming of water balance of subarctic forest ecosystems. Kellomäki, S., et al. [1996,eng] 50-4750
- On filtering consolidation of ground during pre-construction thawing. Barsegian, R.M., et al. [1996,rus] 50-6831
- Preliminary considerations for runoff modelling in GCMS. Versegny, D., [1994,eng] 50-5701
- Seasonal freezing and soil erosion during snowmelt. Demidov, V.V., et al. [1995,eng] 50-2714
- Snow cover effect on the heat and water balance in northwestern China. Kondo, J., et al. [1996,jpn] 50-6729
- Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savilev, B.A., [1963,rus] 50-3832
- Suprapermafrost groundwater seepage in gravelly terrain, Resolute, N.W.T., Canada. Woo, M.K., et al. [1995,eng] 50-668
- Temperature distribution in Collins Ice Cap. King George I. Han, J.K., et al. [1995,eng] 50-3615

Seismic reflection

- Thermal equilibrium in freezing unsaturated porous media. Tao, Y.X., et al. [1993,eng] 50-3362
- Transient hydrogeological controls on the chemistry of a seepage lake. Krabbenhoft, D.P., et al. [1995,eng] 50-2730
- Using geophysical methods to study characteristics of the Dzhankuat Glacier moraines. Aleshin, A.S., et al. [1972,rus] 50-526
- Wetlands and ground water in the United States. Stone, A.W., et al. [1994,eng] 50-971
- See [also]: Permeability
- Seismic reflection**
- 20th-century glacial-marine sedimentation in Vitus Lake, Bering Glacier, Alaska, U.S.A. Molnia, B.F., et al. [1996,eng] 50-6262
- Cenozoic deposition on the Svalbard continental shelf. Solheim, A., et al. [1996,eng] 50-5312
- Cenozoic erosion and sediment yield in the drainage area of the Storöfjorden Fan. Hjeltnen, B.O., et al. [1996,eng] 50-5310
- Cenozoic shelf erosion of the Barents Sea margin. Fiedler, A., et al. [1996,eng] 50-5309
- Cenozoic uplift of Fennoscandia inferred from a study of the mid-Norwegian margin. Stuevold, L.M., et al. [1996,eng] 50-5324
- Developing methods for forecasting seismic effects under cryolithozone conditions. Dzhuurik, V.I., et al. [1996,rus] 50-6834
- Geological and geophysical exploration of alpine and peri-alpine glacial valleys. Pugin, A., et al. [1995,eng] 50-3315
- Glacially-fed North Sea Quaternary sedimentation. King, E.L., et al. [1996,eng] 50-4877
- Late Cenozoic evolution of the western Barents Sea-Svalbard continental margin. Faleide, J.I., et al. [1996,eng] 50-5308
- Late Cenozoic sedimentation and uplift history on the mid-Norwegian continental shelf. Henriksen, S., et al. [1996,eng] 50-5315
- Late Wisconsinan ice retreat from the Scotian Shelf. King, L.H., [1996,eng] 50-6533
- Marine geophysical investigations in the Laptev Sea and the western part of the East Siberian Sea. Roeser, H.A., et al. [1995,eng] 50-2106
- Marine record of the Russell Fjord outburst flood, Alaska, U.S.A. Cowan, E.A., et al. [1996,eng] 50-6260
- Marine seismic system. Odegard, J., et al. [1993,eng] 50-2336
- Mass movements in glaciomarine sediments on the Barents Sea continental slope. Kuvaas, B., [1996,eng] 50-5321
- Method for seismic exploration in arctic regions. Barr, F.J., et al. [1995,eng] 50-3457
- Middle and Late Pleistocene evolution of the Bear Island Trough Mouth Fan. Laberg, J.S., et al. [1996,eng] 50-5322
- Observations of anomalous oceanic crust in the Canada Basin, Arctic Ocean. Jackson, H.R., et al. [1995,eng] 50-410
- Pliocene sand ridges at the Barents Sea margin. Knutsen, S.M., et al. [1996,eng] 50-5314
- Possible influence of glacial eustasy on antarctic shelf stratigraphy. Barteck, L.R., et al. [1996,eng] 50-4823
- Quaternary sedimentary processes and budgets in Orphan Basin, southwestern Labrador Sea. Hiscott, R.N., et al. [1996,eng] 50-4579
- Relevance of ice thickness measurements to Alaskan glacier variations. Nolan, M., et al. [1995,eng] 50-1875
- Results of joint Russian-Canadian geophysical studies of permafrost on the Yamal Peninsula. Burns, R.A., et al. [1995,rus] 50-2507
- Scandinavian Pleistocene tectonic correlations. Riis, F., [1996,eng] 50-5323
- Seismic investigation of glacial tunnel channels. Pugin, A., et al. [1996,eng] 50-6257
- Seismic operations in the Dzhankuat Glacier. Aleshin, A.S., [1972,rus] 50-530
- Seismic reflection data from the Fram Strait. Jokat, W., et al. [1995,eng] 50-2541
- Seismic soundings of Scoresby Sund. Weigel, W., et al. [1995,eng] 50-4198
- Submerged terraces in the Barents Sea. Lebesbye, E., et al. [1996,eng] 50-4876
- Towed geophone system for use in snow-covered terrain. King, E.C., et al. [1996,eng] 50-6225
- Wind-induced ice flow rotation and icequakes north of the Alaskan Beaufort Sea coast. Kozo, T.L., et al. [1996,eng] 50-6508
- Seismic refraction**
- Expedition ARKTIS-X/2 of RV *Polarstern* in 1994. Hubberten, H.W., ed. [1995,eng] 50-1548
- Measurement of seismo-acoustic ocean-bottom properties in the high Arctic. Dosso, S.E., et al. [1995,eng] 50-1837
- Method for seismic exploration in arctic regions. Barr, F.J., et al. [1995,eng] 50-3457
- Practical considerations for GRM refraction surveys in glacial terrains. Kassenar, D., et al. [1993,eng] 50-5516
- Using geophysical methods to study characteristics of the Dzhankuat Glacier moraines. Aleshin, A.S., et al. [1972,rus] 50-526
- Seismic surveys**
- Acoustic and seismic studies of ice mechanics. Farmer, D., et al. [1995,eng] 50-6272
- Arctic Ocean echosounding records. Bergmann, U., [1995,ger] 50-3155
- Bank of arctic seismological data. Avetisov, G.P., et al. [1995,eng] 50-6528

- Device for towing a seismographic bar in ice-covered seas. Sokholov, I.I., et al. [1989,rus] 50-1658
- Evidence for Cenozoic crustal extension in the Bering Sea region. Cooper, A.K., et al. [1992,eng] 50-2565
- Expedition ANTARKTIS-XI/3 of *Polarstern* in 1994. Miller, H., ed. [1996,ger] 50-4325
- Expedition ARKTIS-VII/3 of RV *Polarstern* in 1990. Miller, H., ed. [1996,ger] 50-4326
- Final stages in Laurentide ice sheet collapse, Hudson Strait. Andrews, J.T., et al. [1995,eng] 50-6556
- Fracturing of glacial drift and bedrock over longwall mine panels. Johnston, M.A., et al. [1993,eng] 50-5517
- Geophysical investigations of cryolithozone. Scientific papers. Frolov, A.D., ed. [1995,rus] 50-2502
- Geophysical studies of the Antarctic Peninsula. Fournier, H.G., [1994,eng] 50-1322
- Glacier fluctuations and sediment yields in Glacier Bay. Cai, J.K., et al. [1995,eng] 50-3733
- Glacier-fed delta at a Barents Sea fjord. Laberg, J.S., et al. [1996,eng] 50-5921
- Lake Vostok beneath the antarctic ice sheet—a Russian research proposal. Kaminuma, K., [1995,jpn] 50-3498
- Last deglaciation of the Franz Victoria Trough, northern Barents Sea. Lubinski, D.J., et al. [1996,eng] 50-6535
- Marine geophysical investigations in the Laptev Sea and the western part of the East Siberian Sea. Roeser, H.A., et al. [1995,eng] 50-2106
- Marine seismic profiling in ice covered regions. Jokat, W., et al. [1995,eng] 50-2568
- Marine seismic system. Odegard, J., et al. [1993,eng] 50-2336
- Method for seismic exploration in arctic regions. Barr, F.J., et al. [1995,eng] 50-3457
- Near-shore Baltic ice lake deposits in Fakse Bugt, southeast Denmark. Bennike, O., et al. [1995,eng] 50-1798
- Observations of anomalous oceanic crust in the Canada Basin, Arctic Ocean. Jackson, H.R., et al. [1995,eng] 50-410
- Observations of the geophysical regime as an element in geocryological monitoring. Baulin, I.U.I., et al. [1995,rus] 50-2515
- Oceanic methane hydrates: a "frontier" gas resource. Max, M.D., et al. [1996,eng] 50-4799
- Practical considerations for GRM refraction surveys in glacial terrains. Kassenar, D., et al. [1993,eng] 50-5516
- Problems associated with the occurrence of glacial forms on the bottom of fjords in Spitsbergen. Kowalewski, W., et al. [1989,pol] 50-2879
- Question of integrated electromagnetic and seismic studies of frozen rocks in placer mines. Khachai, O.A., et al. [1995,rus] 50-2517
- Results of joint Russian-Canadian geophysical studies of permafrost on the Yamal Peninsula. Burns, R.A., et al. [1995,rus] 50-2507
- Sea Ice Mechanics Initiative (SIMI) geophone/hydrophone system. Stein, P.J., et al. [1995,eng] 50-6277
- Seismic and gravity surveys of Scoresby Sound. Mandler, H., [1995,ger] 50-1547
- Seismic detection in classifying avalanches. Sabot, F., et al. [1995,fre] 50-4642
- Seismic detection of avalanches: concept and validation of a pre-operational system. Lepretre, B., et al. [1995,fre] 50-4650
- Seismic operations in the Dzhankuat Glacier. Aleshin, A.S., [1972,rus] 50-530
- Seismic prospecting for oil and gas in regions with cryolithozone development. Bevezhenko, I.U.P., [1989,rus] 50-2260
- Seismic reflection results from an ice island over the arctic continental shelf. Cox, T.P., et al. [1990,eng] 50-3763
- Seismic refraction soundings 1993 on rock glacier permafrost in north-western Svalbard. Wagner, S., [1995,eng] 50-851
- Seismic soundings of Scoresby Sund. Weigel, W., et al. [1995,eng] 50-4198
- Seismic survey of the Ross Sea continental shelf. Shipp, S.S., et al. [1994,eng] 50-2694
- Seismo-acoustic studies in a flooded caldera on Deception Island. Kowalewski, W., et al. [1989,pol] 50-2878
- Using group explosions on the surface of antarctic glaciers during deep seismic sounding research. Shumilov, A.V., [1993,rus] 50-4508
- Seismic velocity**
- Base Pliocene velocity inversion on the eastern Vøring Margin—causes and implications. Reemst, P., et al. [1996,eng] 50-5316
- Effects of total water content on dynamic properties of frozen soils. Fukuda, M., et al. [1991,eng] 50-1748
- Elasticity of partially saturated frozen sand. Jacoby, M., et al. [1996,eng] 50-4323
- Forecasting seismic effects under cryolithozone conditions. Dzhuurik, V.I., [1995,rus] 50-2506
- Seismic operations in the Dzhankuat Glacier. Aleshin, A.S., [1972,rus] 50-530
- Seismology**
- Products of subglacial volcanic eruptions under different ice thicknesses. Smellie, J.L., et al. [1994,eng] 50-2993
- Subsurface seismotectonistatigraphic mapping at Anchorage. Schmolli, H.R., et al. [1986,eng] 50-483
- See [also]: Earthquakes
- Self diffusion**
- Clathrate-like structures in supercooled water. Walrafen, G.E., et al. [1995,eng] 50-155
- Diffusion of helium through ice. Davy, J.G., et al. [1970,eng] 50-5748

- Electric field effects on growing ice surface force curves. Slaughterbeck, C.R., et al. [1996,eng] 50-5939
- Molecular dynamic simulation of proton transport in supercooled water. Di Cola, D., et al. [1996,eng] 50-3715
- Simple relationship between the properties of isotopic water. Vedamuthu, M., et al. [1996,eng] 50-4184
- Semiconductors (materials)**
- New laser plasma source for extreme-ultraviolet lithography. Jin, F., et al. [1995,eng] 50-3678
- Sensor mapping**
- Airborne imaging microwave radiometer—part I: radiometric analysis. Collins, M.J., et al. [1996,eng] 50-4763
- Algorithm for radiometric image mapping of global snow cover. Hall, D.K., et al. [1995,eng] 50-1809
- Avalanche hazard mapping with satellite data and a digital elevation model. Gruber, U., et al. [1995,eng] 50-2345
- Classification of wetland and muskeg terrain. Pietroniro, A., et al. [1996,eng] 50-5541
- Comparison between snow cover products derived from visible and microwave satellite observations. Basist, A., et al. [1996,eng] 50-3007
- Cryospheric indices of global change. Barry, R.G., et al. [1994,eng] 50-4789
- Design of an Airborne Imaging Microwave Radiometer. Paul, J.L., et al. [1992,eng] 50-3570
- Detecting and monitoring snow cover variability. Barry, R.G., et al. [1995,eng] 50-3314
- Development of an ice information system (IIS) to be implemented at the NERSC. Jacob, A., [1995,eng] 50-2742
- Fuzzy classification of earth terrain covers using complex polarimetric SAR data. Du, L., et al. [1996,eng] 50-4018
- Glaciological studies in the high central Andes using digital processing of satellite images. Llorens, R.E., et al. [1995,eng] 50-3339
- Global identification of snowcover using SSM/I measurements. Grody, N.C., et al. [1996,eng] 50-2704
- Greenland Sea ice variations recorded by spaceborne photography. Mitchellson-Jacob, E.G., [1996,eng] 50-4292
- Intercomparisons of sea ice concentration from SSM/I and AVHRR data of the Ross Sea. Zibordi, G., et al. [1995,eng] 50-938
- LANDSAT automated mapping of mountain snow cover. Rosenthal, W., et al. [1996,eng] 50-3312
- Mapping alpine snow and ice using Landsat TM and SAR imagery at Waipia icefield. Brugman, M.M., et al. [1996,eng] 50-5545
- Mapping the architecture of glaciofluvial sediments with three-dimensional georadar. Beres, M., et al. [1995,eng] 50-2529
- Mapping tide-water glacier dynamics in East Greenland using Landsat data. Dwyer, J.L., [1995,eng] 50-1879
- Measurement of ice-sheet topography using satellite-radar interferometry. Joughin, I., et al. [1996,eng] 50-4887
- Operational use of ERS-1 SAR images in the Canadian ice monitoring programme. Shokr, M.E., et al. [1996,eng] 50-4017
- Oscillatory behavior in arctic sea ice concentrations. Gloersen, P., et al. [1996,eng] 50-4300
- Remote sensing of East Greenland mafic intrusion lithology. Birnie, R.W., et al. [1989,eng] 50-3935
- Rocky Mountain snowmelt on talus slopes by radar satellite. Maxfield, A.W., [1996,eng] 50-5544
- SAR interferometric signatures of forest. Wegmüller, U., et al. [1995,eng] 50-981
- Satellite imagery of ice sheet drainage basins. Russian Arctic. Dowdeswell, J.A., et al. [1995,eng] 50-3327
- Satellite mapping and monitoring of sea ice. Smith, D.M., et al. [1994,eng] 50-5197
- Sea ice concentrations derived from satellite microwave imagery. Lomax, A.S., et al. [1995,eng] 50-1244
- Some results from geocoding and calibration of ERS-1 SAR IF images in mountainous areas. Johnsen, H., et al. [1995,eng] 50-3717
- Space imagery as a basis for modeling the dynamics of thermokarst lake plains. Viktorov, A.S., [1996,eng] 50-6647
- Spaceborne radar imagery for ice reporting in the Baltic Sea. Hakansson, B., et al. [1995,eng] 50-1821
- Spaceborne radiometry of Barents Sea ice cover variations. Björge, E., et al. [1994,eng] 50-5077
- SSM/I mapped experimental environmental image products. Donahue, D.R., et al. [1992,eng] 50-3567
- Statistical parameters influencing mapping of subglacial topography. Herzfeld, U.C., et al. [1993,eng] 50-1033
- Thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. Björnson, H., et al. [1996,eng] 50-4888
- Use of satellite data for river basin snow cover surveys. Krishna, A.P., [1996,eng] 50-4015
- Using multiple data sources to enhance photogrammetry for mapping antarctic terrain. Fox, A.J., [1995,eng] 50-5536
- Validation of backscatter models for level and deformed sea-ice in ERS-1 SAR images. Carlström, A., et al. [1995,eng] 50-1811
- Sensors**
- Apparatus for measuring ice distribution profiles. Gerardi, J.J., et al. [1995,eng] 50-3482
- Archive of digital data from the Defense Meteorological Satellite Program (DMSF). Kroehl, H.W., et al. [1994,eng] 50-5076
- Arctic buoys send data around the world. [1992,eng] 50-6094

Serbia

Shelters

- Automated nowcasting model of road surface temperature and state for winter road maintenance. Shao, J., et al. [1996.eng] 50-6571
- Buoy for all arctic seasons: the Ice-Ocean Environmental Buoy. Honjo, S.S., [1996.eng] 50-6673
- Comments on paper by P.S. Anderson. Makkonen, L., et al. [1996.eng] 50-6587
- Comparison of load restriction timings determined using FHWA guidelines and frost tubes. Yesiller, N., et al. [1996.eng] 50-4752
- Development of a portable ice-thickness measuring instrument. Glynn, D.P., et al. [1992.eng] 50-4908
- Diode laser humidity sensor for cold environments. Phase II final technical report. Silver, J.A., et al. [1991.eng] 50-4525
- Elastic wave sensing system. Liu, Y., et al. [1995.eng] 50-3471
- Environmentally caused variation in exterior intrusion detection. Peck, L., [1995.eng] 50-888
- Heat flux monitoring during cryogenic pipe freezing: a case study. Tavner, A.C.R., et al. [1996.eng] 50-5477
- Heated anemometer for atmospheric icing environments. Kenyon, P.R., et al. [1992.eng] 50-3638
- High performance fiber optic hydrophones in the arctic environment. Yurek, A.M., et al. [1995.eng] 50-1211
- Ice accretion and persistence measuring instrument. Franklin, C.H., et al. [1991.eng] 50-4364
- Ice detection for turboprop aircraft. Render, P.M., et al. [1995.eng] 50-3691
- Ice force and scour instrumentation for the White River, Vermont. Zabilansky, L.J., [1996.eng] 50-6073
- Ice/snow thickness measuring system. Tank, C.L., et al. [1995.eng] 50-716
- Inflight icing part III: operations. Steenblik, J.W., [1995.eng] 50-4704
- Investigation into ice detection parameters for turboprop aircraft. Render, P.M., et al. [1996.eng] 50-4218
- Measurement of ice accretion and persistence at unmanned sites. Final report. Hill, G.E., [1990.eng] 50-4365
- Measuring salt's effectiveness in New York. Hart, R.D., et al. [1995.eng] 50-1560
- Meteorological satellite instrumentation. Kidder, S.Q., et al. [1995.eng] 50-3154
- Microwave permittivity of dry snow. Mätzler, C., [1996.eng] 50-3887
- Millimetric radar backscatter from snowcover. Williams, L.D., et al. [1987.eng] 50-6200
- Observations of 'freezing-induced redistribution' in soil lysimeters. Butler, A.P., et al. [1996.eng] 50-6082
- Oceanic satellites in the Global Ocean Observing System. Sherman, J.W., III, [1993.eng] 50-4801
- On a sampling error in hailpad measurements. Wirth, E., et al. [1983.eng] 50-4638
- Polarimetric radar at attenuated wavelengths as a hydrological sensor. Sauvageot, H., [1996.eng] 50-5166
- Remote sensing ice detection capabilities—East Coast. Rossiter, J.R., et al. [1995.eng] 50-1412
- SAR observations of arctic freeze-up compared to SSM/I during ARCTIC91. Pettersson, M.I., et al. [1996.eng] 50-6694
- Smart skins and other adaptive structures. Ashley, S., [1995.eng] 50-4618
- Structure-independent measurement of icing. Makkonen, L., [1992.eng] 50-3629
- Student invents a prize-winning ice detector. Rice, D., [1996.eng] 50-5084
- Tests of electro-optic sensors in smoke and obscuration, Quebec, Feb.-Mar. 1989. Kennedy, B.W., et al. [1990.eng] 50-736
- Serbia**
- Failures of overhead lines due to ice and wet snow in Serbia. Vučković, Z., et al. [1996.eng] 50-5365
- Investigation of hail-events characteristics in Serbia. Gburčik, P., et al. [1993.eng] 50-3317
- Test for time series homogeneity of hail-event data in Serbia. Gburčik, P., et al. [1994.eng] 50-3318
- Settlement (structural)**
- Alleviating the effects of frost action on gas distribution and regulator station piping. Arnold, J.M., et al. [1985.eng] 50-4363
- Discussion of paper by Biggar et al. Juárez-Badillo, E., et al. [1995.eng] 50-582
- Estimation of reliability of permafrost beds. Gerasimov, A.S., [1995.eng] 50-344
- Foundation rehabilitation at ADOT/PF Jim River Maintenance Camp. Rooney, J.W., et al. [1991.eng] 50-1768
- Foundations for permafrost and other problem soils. Vangool, W.J., [1996.eng] 50-6132
- Mathematical model of spray ice island creep. Thiel, D.T., et al. [1991.eng] 50-1720
- On the estimation of frost loads. Rajani, B., et al. [1996.eng] 50-6751
- Performance of a Triodetic foundation near Fairbanks, Alaska. Kinney, T.C., [1996.eng] 50-6131
- Prediction of frost heave. Jones, R.H., [1981.eng] 50-2136
- See [also]: Frozen ground settling
- Sewage disposal**
- Cold regions utilities monograph. Third edition. Smith, D.W., ed. et al. [1996.eng] 50-6424
- Cold-climate constructed wetlands. Mahlum, T., et al. [1995.eng] 50-6066
- Demonstrating brine water wells and toilets for Deering, Alaska. Lundell, R.H., [1996.eng] 50-6153
- Life cycle cost analysis of a Storburn propane combustion toilet. Riitz, P., et al. [1996.eng] 50-6175
- Means of distributing waste water into soil in subfreezing temperatures. Martynov, A.G., [1992.rus] 50-1902
- Potential for greater use of wetlands for waste treatment in northern Canada. Doku, I.A., et al. [1995.eng] 50-361
- Using reed beds for winter operation of wetland treatment system for wastewater. Yin, H., et al. [1995.eng] 50-6067
- See [also]: Waste disposal
- Sewage treatment**
- Case history of a lined wastewater treatment lagoon failure. Merrill, K.S., et al. [1996.eng] 50-6150
- Cold temperature nutrient removal from wastewater. Oleszkiewicz, J.A., et al. [1996.eng] 50-6151
- Intermittent-discharge lagoons for use in cold regions. Prince, D.S., et al. [1995.eng] 50-1840
- Performance of lagoons experiencing seasonal ice cover. Price, D.S., et al. [1995.eng] 50-2124
- Using reed beds for winter operation of wetland treatment system for wastewater. Yin, H., et al. [1995.eng] 50-6067
- Wastewater treatment facility aeration project. Eddy, G.L., [1996.eng] 50-6149
- See [also]: Aeration; Waste treatment
- Shaft sinking**
- Application of ground freezing method to two underground projects in water-bearing sand layer. Zhang, N.Z., [1992.eng] 50-41
- Calculation of frozen wall growth during artificial freezing sinking. Li, S.X., [1995.eng] 50-4521
- Fracturing of glacial drift and bedrock over longwall mine panels. Johnston, M.A., et al. [1993.eng] 50-5517
- Freeze sinking construction of Xie Qiao coal mine. Zhang, Y.X., [1992.eng] 50-42
- Frozen shaft for nuclear waste disposal in Germany. Jordan, P., et al. [1992.eng] 50-29
- Ground freezing 91, Vol. 2. International Symposium on Ground Freezing, 6th, Beijing, Sep. 10-12, 1991. [1992.eng] 50-23
- Influence of soil properties on ice-wall formation. Zhang, Y., [1992.eng] 50-30
- Means of deconstructing a frozen ground enclosure around a shaft to be sunk. Boguslavski, E.I., et al. [1992.rus] 50-1901
- Nonlinear creep of artificially frozen Emscher marl. Klein, J., [1978.ger] 50-3852
- Prediction of frost heave. Jones, R.H., [1981.eng] 50-2136
- Preliminary study on the calculation of deformation of frozen wall. Mi, H.Z., [1989.chi] 50-1397
- Review of papers on artificial freezing in shaft sinking. Harris, J.S., [1992.eng] 50-31
- Review of papers on engineering problems of frozen ground. Timus, J.F., [1992.eng] 50-28
- Sinking of main shaft in Chengsilou Mine without freeze tube breakage. Pang, R.Q., [1992.eng] 50-39
- Stress calculation of frozen wall with viscoelastic plastic theory. Lou, G.D., [1989.chi] 50-1398
- Shafts (excavations)**
- Calculating the dimensions of a flat pillar. Kovalev, I.I., [1992.rus] 50-807
- Device for preventing the icing of supporting structures. Barkhanov, V.N., et al. [1992.rus] 50-1929
- Operating chambered shafts in frozen rock. Tiunin, V.P., et al. [1992.rus] 50-808
- Shaft and Tunnel Access (SATA) concepts for developing petroleum reserves. Haskin, C.A., et al. [1991.eng] 50-1742
- Supporting permafrost bases for tower pile-drivers of vertical mine shafts while in operation. Izakson, V.I.U., et al. [1989.rus] 50-2251
- See [also]: Mine shafts
- Shaped charge effects**
- See [also]: Explosives
- Shattering**
- See [also]: Frost shattering
- Shear flow**
- Cryogenic landslides on the Yamal Peninsula, Russia: preliminary observations. Leibman, M.O., [1996.eng] 50-6703
- Dynamics of the Antarctic Circumpolar Current. Ivchenko, V.O., et al. [1996.eng] 50-5157
- Inertial currents in the Beaufort Sea: observations of response to wind and shear. Merrifield, M.A., et al. [1996.eng] 50-4299
- Stability of M_2 critical latitude in the Barents Sea. Furevik, T., et al. [1996.eng] 50-5262
- Till genesis through shear diffusion. Charbonneau, R., et al. [1995.eng] 50-3364
- Shear modulus**
- Dynamic deformation characteristics of undisturbed riverbed gravels. Yasuda, N., et al. [1996.eng] 50-4861
- Formation of poly(vinyl alcohol) cryogels through polymer solution freezing-thawing. Lozinskii, V.I., et al. [1995.eng] 50-1177
- Shear properties**
- Ice tank tests on pressure ridge formation. Lensu, M., et al. [1995.eng] 50-4582
- Orientation dependence of elastic constants for ice. Parameswaran, V.R., [1987.eng] 50-4223
- Shear strain**
- Effects of localized deformation on melting processes in ice. Wilson, C.J.L., et al. [1996.eng] 50-5470
- Laboratory study of sediment deformation: stress heterogeneity and grain-size evolution. Iverson, N.R., et al. [1996.eng] 50-6256
- Liquefaction resistance of silty sand based on in situ frozen samples. Yoshimi, Y., et al. [1996.eng] 50-5080
- Multiaxial creep of saline ice. Golubov, A.I., et al. [1990.eng] 50-102
- Shear moduli and damping in frozen and unfrozen clay by resonant column tests. Al-Hunaidi, M.O., et al. [1996.eng] 50-5817
- Shear strength**
- Cement and lime for deep stabilization of soil. A chemical-physical study of stabilization effects. Åhnberg, H., et al. [1995.swe] 50-2168
- Centrifuge modeling and numerical simulation of ice scour. Yang, Q.S., et al. [1996.eng] 50-5936
- Discussion of paper by Biggar et al. Juárez-Badillo, E., et al. [1995.eng] 50-582
- Effects of freeze-thaw cycles on the properties of a sensitive clay. Roy, M., et al. [1995.fire] 50-581
- Freeze-thaw dewatering and structural enhancement of fine coal tails. Stahl, R.P., et al. [1995.eng] 50-357
- Glacial influence on offshore Norwegian sediment properties. Sætem, J., et al. [1996.eng] 50-5320
- Investigation of sea ice shear properties. Zanegin, V.G., et al. [1990.eng] 50-101
- Sea ice rheology and sea ice modelling. Tremblay, B., [1993.eng] 50-5185
- Strength and viscosity of ice. Zaretskii, I.U.K., et al. [1996.rus] 50-6825
- Strength and yield criteria of frozen soil. Ma, W., et al. [1995.eng] 50-5478
- Strength characteristics of frozen sandy soil. Wu, Z.W., et al. [1995.eng] 50-4518
- Strength of composite ice-resisting walls subjected to combined loads. Stephens, M.J., et al. [1990.eng] 50-95
- Traction and hardening tests of mobile missile launcher over frozen ground. Chamberlain, E.J., et al. [1988.eng] 50-2524
- Two-dimensional dynamic simulation of solid fracture. Part II: examples. Potapov, A.V., et al. [1995.eng] 50-1097
- Undrained shear strength for liquefaction flow failure analysis. Konrad, J.M., et al. [1995.eng] 50-1824
- Undrained shear strength for liquefaction flow failure analysis. Konrad, J.M., et al. [1995.eng] 50-1824
- Shear stress**
- Analytical modeling of glacier dynamics. Bahr, D.B., [1996.eng] 50-5023
- Basal friction of Ice Stream E, West Antarctica. MacAyeal, D.R., et al. [1995.eng] 50-448
- Bedrock topographic effects on subglacial erosion. Rea, B.R., et al. [1996.eng] 50-6249
- Computer simulations of Alaskan neotectonics. Bird, P., [1996.eng] 50-6215
- Cyclic direct simple shear testing of a Beaufort Sea clay. McCarron, W.O., et al. [1995.eng] 50-579
- Hindsight on river ice jam stability. Beltaos, S., [1996.eng] 50-6425
- Hydraulic run-away: a mechanism for thermally regulated surges of ice sheets. Fowler, A.C., et al. [1995.eng] 50-1876
- Ice fracture and spalling in ice-structure interaction. Zou, B., et al. [1996.eng] 50-5473
- Ice-pavement bond debonding—fundamental study. Blackburn, R.R., et al. [1993.eng] 50-876
- Introductory analysis of boundary-layer development on de-icing fluid. Perron, E., et al. [1996.eng] 50-4217
- Investigation of sea ice shear properties. Zanegin, V.G., et al. [1990.eng] 50-101
- Methodological prerequisites for using time analogy methods in frozen ground mechanics. Roman, L.T., et al. [1996.rus] 50-6830
- Moraine observations at the foot of Independence Hills. Ishimaru, S., et al. [1995.eng] 50-4382
- Multiaxial creep of saline ice. Golubov, A.I., et al. [1990.eng] 50-102
- On the ice-ocean response to wind forcing. Omstedt, A., et al. [1996.eng] 50-6666
- Shear margins in glaciers and ice sheets. Raymond, C., [1996.eng] 50-4894
- Stability of sublittoral, fine-grained sediments in a subarctic estuary. Amos, C.L., et al. [1996.eng] 50-4044
- Stress interaction between multiple crevasses in glacier ice. Sas-solas, C., et al. [1996.eng] 50-5464
- Temperature measurements in the margin of ice stream B, 1993-1994. Harrison, W., et al. [1994.eng] 50-1889
- Tertiary paleostress regimes in arctic islands. Lepvrier, C., et al. [1996.eng] 50-6208
- Thermal rejuvenation of the Yermak Plateau. Okay, N., et al. [1994.eng] 50-4249
- Triaxial tests on crushed ice. Singh, S.K., et al. [1996.eng] 50-5468
- Under cover transport and accumulation of frazil granules—discussion. Quo, Q.Z., et al. [1996.eng] 50-6337
- Viscosity of fluidized snow. Nishimura, K., [1996.eng] 50-5465
- Shelf ice**
- See [also]: Ice shelves
- Shells**
- Fluctuations of the Vestfonna Ice Margin. Donner, J.J., et al. [1995.eng] 50-4505
- Post-yield strength of icebreaking ship structural members. Des-Rochers, C.G., et al. [1995.eng] 50-877
- Shelterbelts**
- See [also]: Forest strips
- Shelters**
- See [also]: Portable shelters

Ship icing

Ship icing

- Composition for an anti-icing coating. Bocharov, A.D., et al. [1992.rus] 50-1920
Ice accumulation on fixed and floating ocean structures. Minsk, L.D., [1975.eng] 50-5755
Model for spraying and three-dimensional icing on a stern trawler. Chung, K.K., et al. [1995.eng] 50-2955

Ships

- Analysis of outer shell wear for ice-going ships. Shemendiuk, G.P., et al. [1996.eng] 50-4467
Application of ice cover mechanics in design and operations of marine structures. Riska, K., et al. [1995.eng] 50-6303
Arctic infrastructure—the need for dedicated Arctic research support. Pittenger, R.F., [1996.eng] 50-6676
Attempt to draw a scenario of ice/propeller interaction. Tamura, K., et al. [1996.eng] 50-4475
Can the Northern Sea Route be profitable. Schwarz, J., [1996.eng] 50-4490
Centennial of the Norwegian Polar expedition on board of the FramR, 1893-1896. Matalowski, S.M., [1993.eng] 50-2183
Design of ice-navigating cargo vessels. Kitagawa, H., [1996.eng] 50-4470
Development of optimum hull forms for icebreaking cargo ships for the Northern Sea Route. Kishi, S., et al. [1996.eng] 50-4473
Device for pushing broken ice ahead of a ship or the like. Donderi, D.C., [1990.eng] 50-2241
Ecological safety of navigation on the Northern Sea Route. Semanov, G.N., [1996.eng] 50-4437
Effects of a diesel spillage at Macquarie I. Simpson, R.D., et al. [1995.eng] 50-3800
Electromagnetic wave attenuating and deicing structure. Webster, S.D., et al. [1991.eng] 50-2343
Evaluation of double-sided beam and girder constructions tension subject to local ice loads. Barabanov, N.V., et al. [1996.eng] 50-4465
Experimental voyage through Northern Sea Route. Yamaguchi, H., [1996.eng] 50-4425
Experimental voyage through Northern Sea Route. Yamaguchi, H., et al. [1996.jpn] 50-5874
Hydrodynamic performance of ship hull forms designed for the NSR cargo ship. Uto, S., et al. [1996.eng] 50-4474
Ice conditions and navigability of the NSR-vessels: present and future. Schwarz, J., [1996.eng] 50-4491
Ice impact tests on *Nathaniel B. Palmer*. St. John, J.W., et al. [1995.eng] 50-860
Ice resistance of three bow forms for the NSR cargo ship. Izumiya, K., et al. [1996.eng] 50-4471
Ice zipper. Terauchi, M., [1987.eng] 50-2240
Iceberg-structure interaction probabilities for design. Fuglem, M., et al. [1996.eng] 50-5052
Icebreaker "Erma". Basevich, V., et al. [1994.rus] 50-3237
Icebreakers. Kashtelian, V.I., et al. [1972.rus] 50-387
Icebreaking patrol vessel *Teshio* 550 G/T type. Kawashima, Y., et al. [1996.jpn] 50-5902
Identification of ice classes and rules for ships intended to navigate in the Arctic. Karavanov, S.B., et al. [1996.eng] 50-4464
Information booklet on the Arctic and Antarctic Research Institute (Russia). Mustafin, N.V., [1993.eng] 50-19
Mechanics of marine screw propeller ice cutting processes. Veitch, B., [1995.eng] 50-4154
Northern Sea Route reconnaissance study: a summary of ice-breaking technology. Sodhi, D.S., [1995.eng] 50-395
Northern Sea Route: future & perspective. Northern Sea Route: future & perspective. Proceedings of INSROP Symposium, Tokyo, Oct. 1-6, 1995, [1996.eng] 50-4419
Optimal design of bow plating for ships operating in ice. Brown, P.W., [1993.eng] 50-378
Project I: natural conditions and ice navigation. Buzuev, A., [1996.eng] 50-4435
Report on underwater noise. Davis, R.A., et al. [1991.eng] 50-3420
Revolution in arctic navigation. Ternovoi, E., [1995.rus] 50-3236
Salient features of the design of large arctic ships with a restricted draft. Tsai, L.G., [1996.eng] 50-4431
Series of model tests in ice of ice-going cargo ships for future traffic in the Northern Sea Route. Ishikawa, S., et al. [1996.eng] 50-4472
Shipping on the Northern Sea Route. Barabanov, N.V., [1996.eng] 50-4485
Simulation of ship transit for Baltic ice conditions. La Prairie, D., et al. [1995.eng] 50-4583
Simulation of ship-ice collision dynamics. Phillips, L.D., [1994.eng] 50-5670
Standardization of corrosion wear of shell plating for ice ships operations. Kulesh, V.A., et al. [1996.eng] 50-4466
Structural failure of the *Titanic*. Garzke, W.H., Jr., et al. [1994.eng] 50-5177
Study of dynamic effects on icebreaking in 2-dimension: computations and components of icebreaking load. Yamaguchi, H., et al. [1996.eng] 50-4469
Technical fleet operations. Zhukov, A.V., ed. [1992.rus] 50-18
Testing of ships in ice. Rytvin, A.I.A., et al. [1980.rus] 50-388
Underwater transport system for the Arctic. Kurenikov, A.V., et al. [1996.eng] 50-4476
See [also]: Icebreakers; Marine transportation; Oceanographic ships; Submarines; Tanker ships

Shock waves

- Behavior of crystals in kimberlite and ice under the action of shock waves. Beloborodov, V.N., et al. [1995.eng] 50-1206
Comment on "Equation of state for extrapolation of high-pressure shock Hugoniot data". Johnson, J.B., [1995.eng] 50-5592
Cosmochemical significance of hydrocarbon reaction to frozen benzene impact. Mimura, K., et al. [1995.eng] 50-631
Dynamic testing of frozen soil sample with an exploding wire system. Fyfe, I.M., [1968.eng] 50-2029
Dynamic testing of frozen soil samples with an exploding wire system. Fyfe, I.M., [1968.eng] 50-1668
Hopkinson bar perforation of laminated composite. Nwosu, S.N., et al. [1995.eng] 50-2466
Investigation of the dynamic loading of ice. Chizhov, V.E., [1996.eng] 50-5269
Runup and overtopping of impulse waves on dams. Müller, D.R., [1995.ger] 50-858
Underwater explosions beneath ice. Tanglis, E., et al. [1989.eng] 50-3836

Shore erosion

- Arctic coastal plain shorelines. Hill, P.R., et al. [1994.eng] 50-492
Beach sedimentation on paraglacial coasts. Forbes, D.L., et al. [1995.eng] 50-1119
Build-up, decay and role of the sea-ice cover of the Liefdefjord, NW Spitsbergen. King, L., et al. [1994.ger] 50-1596
Countermeasure for ice floes overtopping over breakwater due to wave action. Sasajima, T., et al. [1996.jpn] 50-5883
Development of cryogenic processes in the Baykal region. Leshchikov, F.N., [1996.rus] 50-6397
Device for strengthening ground using buried components. Ostukov, B.S., et al. [1992.rus] 50-2053
Early Holocene moraine bank sedimentology of East Greenland. Huddart, D., et al. [1990.eng] 50-929
Effect of introduced disturbances on the development of thermoerosional processes. Glavatskikh, V.V., et al. [1996.rus] 50-6404
Influence of glacial deposits on river basin sedimentation. Campo, S.H., et al. [1994.eng] 50-2997
Initiation and development of natural ground ice exposures. Canadian Arctic. Lewkowicz, A.G., [1990.eng] 50-1633
Paraglacial coasts. Forbes, D.L., et al. [1994.eng] 50-493
Sedimentary model and dynamic process of the Great Wall Bay coast, Antarctica. Wang, X.L., [1989.chi] 50-6782
Thermo-abrasion and thermo-denudation of the shores of arctic seas (e.g., the Laptev Sea). Grigor'ev, M.N., [1996.rus] 50-6409
Thermo-abrasion and thermo-erosion of the shores of arctic seas as a system of exogenous processes. Voskresenskii, K.S., et al. [1991.rus] 50-1300
Tree-ring dating of extreme water level events at Lake Bienville, subarctic Québec, Canada. Lepage, H., et al. [1996.eng] 50-4339

Shore ice

See [also]: Fast ice

Shoreline modification

- Arctic coastal plain shorelines. Hill, P.R., et al. [1994.eng] 50-492
Braided outwash fans in the Gulf of Alaska. Boothroyd, J.C., et al. [1975.eng] 50-4814
Contribution to the geomorphological problem of strandflats. Tietze, W., [1962.ger] 50-5743
Evolution and age of shorelines along Woodford, northern Spitsbergen. Brückner, H., et al. [1994.eng] 50-1582
Glacio-isostatic implications of Swedish Holocene shore displacement. Berglund, M., [1995.eng] 50-3367
Holocene shoreline displacement in southernmost Spitsbergen. Ziaja, W., et al. [1995.eng] 50-5537
Late glacial sedimentation and history of the Lake Nipigon Basin, Ontario. Lemoine, R.M., et al. [1995.eng] 50-4880
Limits on the areal extent of the Barents Sea ice sheet in Late Weichselian time. Lambeck, K., [1996.eng] 50-5307
Model of shoreward movement of grounded lake ice. Sasaki, T., et al. [1995.eng] 50-3329
Paleoclimatic interpretation of topographic variations in Tibetan lake shorelines. Avouac, J.P., et al. [1996.eng] 50-5094
Paleoecological implications of frost-shattered sediments on the Norwegian coast. Blikra, L.H., et al. [1995.eng] 50-2167
Paraglacial coasts. Forbes, D.L., et al. [1994.eng] 50-493
Post glacial emergence and the Tapes transgression, north-central Kola Peninsula, Russia. Snyder, J.A., et al. [1996.eng] 50-5829
Quaternary sea level history in the Northwest Territories, Canada. Kerr, D.E., [1996.eng] 50-6553
Relative sea level in the area of Matane (Québec) from deglaciation to present day. Dionne, J.C., et al. [1995.fre] 50-5036
Sedimentary model and dynamic process of the Great Wall Bay coast, Antarctica. Wang, X.L., [1989.chi] 50-6782

Shores

- 1994/95 winter ice in the Baltic Sea between the Ems and the Oder rivers. Strübing, K., [1995.ger] 50-4535
Achieving protection of the coastal belt of the Taymyr Peninsula and nearby islands. Chernous, V.F., [1991.rus] 50-1293
Age of pre-late-Wisconsinan glacial-estuarine sedimentation, Bristol Bay, Alaska. Kaufman, D.S., et al. [1996.eng] 50-4586
Basis for statistical inferences in coastal injury assessment of *Exxon Valdez* oil spill. McDonald, L.L., et al. [1995.eng] 50-3922
Characteristics of cryolithogenesis on the arctic shelf. Romanovskii, N.N., et al. [1990.rus] 50-1660

Simulation

- Coastal environments of the western Kara and eastern Barents Seas. Pirman, S.L., et al. [1995.eng] 50-4558
Coastal Greenland Holocene sea level changes. Rasch, M., et al. [1995.eng] 50-5533
Current water quality in Cook Inlet, Alaska, study. University of Alaska. Environment and Natural Resources Institute, [1995.eng] 50-4400
Damming James Bay: I. Potential impacts on coastal climate and the water balance. Rouse, W.R., et al. [1992.eng] 50-5030
Damming James Bay: II. Impacts on coastal marshes. Price, J.S., et al. [1992.eng] 50-5031
Development of southern Bellsund beaches (West Spitsbergen). Jezierski, W., [1993.eng] 50-2202
Flux of debris transported by ice at three Alaskan tidewater glaciers. Hunter, L.E., et al. [1996.eng] 50-4897
Problems in the rational use of coastal zones of arctic seas. Sovershaev, V.A., et al. [1991.rus] 50-1299
Role of geomorphological analysis in coastal environmental protection measures. Finarov, D.P., et al. [1992.rus] 50-386
Sediment flux along glaciated continental margins. Andrews, J.T., et al. [1994.eng] 50-1241
Selected aspects of the physical oceanography and particle fluxes in fjords of northern Norway. Wassmann, P., et al. [1996.eng] 50-5571
Stationary study of the dynamics of shoreline slopes in the Bol'shezemel'skaya tundra. Glavatskikh, V.V., et al. [1996.rus] 50-6410
Studying seacoasts in the cryolithozone. Sovershaev, V.A., [1996.rus] 50-6408
Symposium on Environmental Toxicology and Risk Assessment, 3rd, Atlanta, GA, Apr. 26-28, 1993. Exxon Valdez oil spill: fate and effects in Alaska waters. [1995.eng] 50-3914
West coast Newfoundland oil spill sensitivity atlas. Dempsey, J., et al. [1995.eng] 50-1468
See [also]: Banks (waterways); Beaches; Coastal topographic features; Littoral zone
- Side looking radar**
Meteorological support for navigation along the Northern Sea Route. Kondrat'ev, K.I.A., et al. [1994.eng] 50-648
- Sidewalks**
Development of easily handled sidewalk snow removal equipment. Kamimura, H., et al. [1992.jpn] 50-3141
Improvement of sidewalk snow removal within urban areas. Takahashi, S., et al. [1992.jpn] 50-3138
Pedestrian slipping accidents and their prevention. Kelkka, M., [1995.fin] 50-5507
- Silver iodide**
Evaluation of the Bridger Range winter cloud seeding experiment using control gases. Super, A.B., et al. [1983.eng] 50-4637
Hail prevention in southwestern France. Dessens, J., [1986.eng] 50-4912
How AgI aerosol dispersion may effect cloud seeding detection. Warburton, J.A., et al. [1995.eng] 50-347
Rocket flight cloud seeding during hail suppression experiments. Lacaux, J.P., et al. [1995.eng] 50-4971
Studies on ice nucleating behavior of AgI-AgBr-CuBr system. Radhakrishnan, T., et al. [1996.eng] 50-4290
Tests for persistent effects of cloud seeding in a recent Australian experiment. Bigg, E.K., [1995.eng] 50-1249
- Silver iodide generators**
See [also]: Smoke generators
- Simulation**
A hydrochemical model for seasonally snow-covered alpine watersheds. Wolford, R.A., et al. [1996.eng] 50-4237
Adsorption and ionization of HCl on an ice surface. Banham, S.F., et al. [1996.eng] 50-5940
Adsorption and photochemistry of dinitrogen tetroxide on low temperature ice layers. Rieley, H., et al. [1996.eng] 50-4295
Adsorption model of polar stratospheric cloud physics. Henson, B.F., et al. [1996.eng] 50-5460
Adsorption of methane on natural snow. Chai, L., et al. [1996.eng] 50-5963
Aerosol uptake by model polar stratospheric cloud surfaces. Graham, J.D., et al. [1996.eng] 50-4144
Alcohols in interstellar ice mantles. Charnley, S.B., et al. [1995.eng] 50-5101
Algorithm for simulating wave propagation through sea ice. Blackowiak, A.D., et al. [1995.eng] 50-1644
Application of a surface hydrology scheme to a watershed. Leung, L.R., et al. [1996.eng] 50-6056
Application of pipe temperature simulator for Norman Wells oil pipeline. Nixon, J.F., et al. [1996.eng] 50-4306
Arctic bioremediation: a case study. Liddell, B.V., et al. [1991.eng] 50-1752
Arctic dwarf shrub response to simulated climatic warming. Michelsen, A., et al. [1996.eng] 50-5770
Asian summer monsoon sensitivity to Eurasian snow cover. Douville, H., et al. [1996.eng] 50-5863
Assessment of global climate model simulations of arctic air temperatures. Tao, X., et al. [1996.eng] 50-5532
Atmospheric transport effects on arctic stratospheric chemistry. Yateau, J.H., et al. [1990.eng] 50-6020
Automated wind tunnel measurements. Stumpf, P., et al. [1994.eng] 50-3689
Avalanche modeling in concave and convex chutes. Greve, R., et al. [1993.eng] 50-1209
Backscattering radar measurements of spherical ice cloud crystals. Prodi, F., et al. [1996.eng] 50-4502

Simulation

Simulation

- Backscattering through the melting layer of precipitation. Russchenberg, H.W.J., et al. [1996,eng] 50-2699
- Barents Sea biomass reaction to gas condensate pollution. Gorbacheva, E.A., et al. [1996,eng] 50-6581
- Behavior of crystals in kimberlite and ice under the action of shock waves. Beloborodov, V.N., et al. [1995,eng] 50-1206
- Behavior of the East Antarctic ice sheet as deduced from a coupled GCM/ice-sheet model. Verbitskii, M.I.A., et al. [1995,eng] 50-4538
- Calculation of free energy for molecular crystals by thermodynamic integration. Báez, L.A., et al. [1995,eng] 50-1951
- Calibration of time domain reflectometry for measurement of liquid water in frozen soils. Seyfried, M.S., et al. [1996,eng] 50-3308
- Canadian contribution to the Paleoclimate Model Intercomparison Project (PMIP). Jetté, H., [1995,eng] 50-1449
- Carbon acquisition and growth of antarctic sea ice diatoms in closed bottle incubations. Gleitz, M., et al. [1996,eng] 50-5455
- Centrifuge modeling and numerical simulation of ice scour. Yang, Q.S., et al. [1996,eng] 50-5936
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995,eng] 50-1863
- Chemical variations between polar stratospheric cloud phases. Ravishankara, A.R., et al. [1996,eng] 50-3443
- Climate change and forest management alternatives. Valsta, L., et al. [1994,eng] 50-3233
- Climate change and snow-cover duration in the Australian Alps. Whetton, P.H., et al. [1996,eng] 50-4751
- Climate change impacts on snow cover: modelling case studies in Switzerland and the French Western Alps. Baumgartner, M.F., et al. [1995,eng] 50-1013
- Climate models and scenarios. Fortelius, C., et al. [1994,eng] 50-3185
- Comment on paper by Avila et al. Jayaratne, R., et al. [1996,eng] 50-5454
- Compaction tests to simulate icy satellite regolith physics. Leliwa-Kopystyński, J., et al. [1995,eng] 50-5200
- Comparing simulated glacial climate and paleodata: a reexamination. Broccoli, A.J., et al. [1996,eng] 50-4398
- Complex refractive indices in the infrared of nitric acid trihydrate aerosols. Richwine, L.J., et al. [1995,eng] 50-1188
- Compositional simulation and performance analysis of the Prudhoe Bay Miscible Gas Project. McGuire, P.L., et al. [1991,eng] 50-1702
- Condensation of cometary ice analogs. Patnaik, A., et al. [1996,eng] 50-6222
- Consistent treatment of the evaporation of rain and snow for use in large-scale models. Gregory, D., [1995,eng] 50-353
- Contrast between natural and simulated snowdrift experiments. Naaim-Bouvet, F., [1995,eng] 50-1063
- Contribution to the hydrological and hydrochemical response of mountain basins. Babiaková, G., et al. [1994,eng] 50-3670
- Cosmochemical significance of hydrocarbon reaction to frozen benzene impact. Mimura, K., et al. [1995,eng] 50-631
- Cratering phenomena on aircraft anti-icing films. La Due, J., et al. [1996,eng] 50-4219
- Denitrification mechanisms in the polar stratospheres. Toon, O.B., et al. [1990,eng] 50-6001
- Dense water formation on arctic shelves. Gawarkiewicz, G., et al. [1996,eng] 50-6671
- Detection of polar stratospheric clouds with ERS-2/GOME data. Meerköter, R., [1995,eng] 50-2150
- Determination of snowmelt factor in the Himalayan region. Singh, P., et al. [1996,eng] 50-5705
- Determining past atmospheric HCl mixing ratios from ice core analyses. Dominé, F., et al. [1995,eng] 50-1104
- Development and stability of preferential flow paths in a layered snowpack. Schneebeli, M., [1995,eng] 50-2402
- Development of a regional climate model of the western Arctic. Lynch, A.H., et al. [1995,eng] 50-597
- Development of procedures for hot tap welding onto sour service pipelines. Felix, R.D., et al. [1991,eng] 50-1724
- Dipole moment of the water molecule in the condensed phase: a periodic Hartree-Fock estimate. Gatti, C., et al. [1995,eng] 50-3817
- Distributed snowmelt modeling using a clustering algorithm. Harrington, R.F., et al. [1995,eng] 50-2409
- Dynamic model of the pelagic ecosystem of the Kara Sea. Lebedeva, L.P., et al. [1995,eng] 50-3540
- Effect of climate change on erosion and nutrient transport from arable land. Kallio, K., et al. [1994,eng] 50-3196
- Effect of climate change on hydrologic regime of two climatologically different watersheds. Loukas, A., et al. [1996,eng] 50-6100
- Effect of root fungi on subarctic plant growth. Fernando, A.A., et al. [1996,eng] 50-6747
- Effect of sea ice distribution on atmospheric circulation models. Grötzner, A., et al. [1996,eng] 50-5864
- Effect of sea ice frost flowers on infrared surface observations. Martin, S., et al. [1996,eng] 50-5858
- Effects of anti-icing fluid on wing lift during supercooled precipitation. Bouchard, G., et al. [1995,eng] 50-3255
- Effects of enhanced UV-B radiation on the growth of dwarf shrubs in a subarctic heathland. Johanson, U., et al. [1995,eng] 50-3618
- Effects of individual ridging events on the ice thickness distribution in the arctic ice pack. Hopkins, M.A., [1996,eng] 50-3828
- Effects of nutrient availability on arctic sedge growth. Gebauer, R.L.E., et al. [1995,eng] 50-2540
- Effects of solar radiation variations on ice age initiation. Ledley, T.S., et al. [1995,eng] 50-1254
- Ejection velocity of ice impact fragments. Arakawa, M., et al. [1995,eng] 50-2153
- Elasticity of partially saturated frozen sand. Jacoby, M., et al. [1996,eng] 50-4323
- Elliptical halos, Bottlinger's rings, and the ice-plate snow-star transition. Tränkle, E., et al. [1996,eng] 50-6612
- Energy—water—mass balance and hydrological discharge. Kang, E.S., [1994,eng] 50-5576
- Enrichment of CO over N₂ by their trapping in amorphous ice and implications to comet P/Halley. Notesco, G., et al. [1996,eng] 50-5834
- Environmental factors influencing the biodegradation of petroleum hydrocarbons in cold seawater. Siron, R., et al. [1995,eng] 50-651
- Estimation of climate change effect on the runoff: catchment-scale application of SOIL-model. Roos, J., et al. [1994,eng] 50-3194
- Estimation of freeze drying transport coefficients. Lombraña, J.I., et al. [1996,eng] 50-5692
- Experimental closure of the heat and mass transfer theory of spheroidal hailstones. Greenan, B.J.W., et al. [1995,eng] 50-2117
- Experimental design for laboratory simulation of periglacial solifluction processes. Harris, C., et al. [1996,eng] 50-5778
- Exploring the behaviour of microwaves in a snowpack using modelling techniques. Leone, R., [1996,eng] 50-5539
- Feasibility of infrared sensing of Martian cloud and surface ices. Johnson, B.R., et al. [1996,eng] 50-3865
- Field measurements and model calibration in avalanche dynamics. Nettuno, L., [1995,eng] 50-1057
- Fine resolution numerical model of the Iceland-Farø front with open boundary conditions. Griffiths, C., [1995,eng] 50-571
- Flow properties of crushed ice. Singh, S.K., et al. [1995,eng] 50-2999
- Forecasting avalanche risks in France—assessment and perspective. Pahaut, E., et al. [1995,eng] 50-4873
- Formation of amino acid precursors in cometary ice environments by cosmic radiation. Kobayashi, K., et al. [1995,eng] 50-652
- Formation of organic molecules in astronomical ices. Schutte, W.A., [1995,eng] 50-653
- Formation of polar stratospheric clouds on preactivated background aerosols. Zhang, R.Y., et al. [1996,eng] 50-6510
- Framework for modeling the effects of climate change on material fluxes in forested catchments. Holmberg, M., et al. [1994,eng] 50-3197
- Free vibrations of a snowboard. Sakata, T., et al. [1996,eng] 50-4568
- Frost damage to northern trees during climatic warming. Hänninen, H., [1996,eng] 50-6631
- Frost resistance of artificially deacclimated pine needles. Taulavuori, K., et al. [1996,eng] 50-4151
- Further discussion on simulation of the modern arctic climate by the NCAR CCM1. Williamson, D.L., et al. [1996,eng] 50-6573
- GCM response to an antarctic polynya. Glowienka-Hense, R., [1995,eng] 50-3100
- General circulation (GCM) modelling of palaeoclimates: a critique. Street-Perrott, F.A., [1991,eng] 50-3303
- Global three-dimensional constituent fields derived from profile data. Douglass, A.R., et al. [1990,eng] 50-6018
- Grain-scale mechanisms influencing the elution of ions from snow. Cragin, J.H., et al. [1996,eng] 50-1975
- Growth dynamics and population development in an alpine grassland under elevated CO₂. Schappi, B., [1996,eng] 50-5779
- Growth of acidic polar stratospheric aerosols. Hamill, P., et al. [1996,eng] 50-4311
- Growth response of mosses to simulated subarctic environmental change. Potter, J.A., et al. [1995,eng] 50-3860
- Heat transfer through permeable cold-weather clothing. Kind, R.J., et al. [1995,eng] 50-1139
- Heterogeneous interactions of aerosol radicals on simulated cloud ice surface. Cooper, P.L., et al. [1996,eng] 50-4142
- Heterogeneous interactions of stratospheric aerosols. Abbatt, J.P.D., [1996,eng] 50-6512
- High pressure-differential thermal analysis of ice-water equilibrium at 1.5–5.0 GPa. Xu, Y.S., et al. [1995,eng] 50-3392
- High-density amorphous ice, the frost on interstellar grains. Jenniskens, P., et al. [1995,eng] 50-2780
- High-pressure Brillouin scattering and elastic properties of liquid and solid methane. Shimizu, H., et al. [1996,eng] 50-5682
- Homogeneous nucleation in supercooled molecular clusters. Bartell, L.S., et al. [1995,eng] 50-1280
- How to make a palisa: a field experiment on permafrost formation. Seppälä, M., [1995,eng] 50-874
- Hydraulic conductivity of frozen granular soils. Andersland, O.B., et al. [1996,eng] 50-4048
- Hydrologic cycle parameterization for energy balance climate models. Chu, S.P., et al. [1995,eng] 50-587
- Hydrological effects of hypothetical climate change in the East River basin, Colorado, USA. McCabe, G.J., Jr., et al. [1995,eng] 50-740
- Ice cloud microphysics in a general circulation model, pt.2. Fowler, L.D., et al. [1996,eng] 50-5016
- Ice cloud microphysics in a general circulation model, pt.3. Fowler, L.D., et al. [1996,eng] 50-5017
- Ice model test basin opens in Helsinki. [1989,eng] 50-5649
- Ice passage. [1996,eng] 50-4621
- Ice shedding from cables. Druetz, J., et al. [1995,eng] 50-1144
- Ice tank tests on pressure ridge formation. Lensu, M., et al. [1995,eng] 50-4582
- Ice-sheet growth and high-latitudes sea-surface temperature. Berger, A., et al. [1996,eng] 50-5862
- Iceberg-structure interaction probabilities for design. Fuglem, M., et al. [1996,eng] 50-5052
- Icing of wind turbine rotor blades during operation. Seifert, H., [1992,eng] 50-3631
- Icing test and rework of WECS for use on Lapland's fjells. Böhmke, G., et al. [1992,eng] 50-3635
- Impacts of climate variability and change on Canadian wetlands. Woo, M.K., [1992,eng] 50-4805
- Implications for changes in arctic plant biodiversity from environmental manipulation experiments. Callaghan, T.V., et al. [1995,eng] 50-3897
- Improved detection of acoustic sources in ice-riding ocean environment. Zala, C.A., et al. [1995,eng] 50-1461
- Incorporating airborne data into the spatial model used to estimate snow water equivalent. Carroll, S.S., et al. [1993,eng] 50-5146
- Influence of supercooling on salt-water saturated porous medium. Okada, M., et al. [1996,eng] 50-4762
- Infrared absorption coefficients of gaseous chlorine nitrate at 296 K. Tuazon, E.C., et al. [1989,eng] 50-4709
- Infrared spectroscopy of organics of planetological interest at low temperatures. Khanna, R.K., [1995,eng] 50-656
- Instability trends of inertially coupled galloping, part 1: initiation. Yu, P., et al. [1995,eng] 50-1053
- Interaction between multiple line plumes: a model study with applications to leads. Ching, C.Y., et al. [1996,eng] 50-4408
- Introductory analysis of boundary-layer development on de-icing fluid. Perron, E., et al. [1996,eng] 50-4217
- Investigation of the general circulation of the Arctic Ocean using an isopycnal model. Holland, D.M., et al. [1996,eng] 50-3822
- Ion flux through a shallow snowpack: effects of initial conditions and melt sequences. Davis, R.E., et al. [1995,eng] 50-2405
- Ion irradiation of astrophysical ices. Strazzulla, G., et al. [1995,eng] 50-3022
- Ionisation and solvation of stratospherically relevant molecules on ice films. Banham, S.F., et al. [1995,eng] 50-5959
- Kinetic measurements of the ClO + O₃ → ClOO + O₂ reaction. Stevens, P.S., et al. [1990,eng] 50-4727
- Kinetics of ice nucleation initiated by molecular crystals. Iatimirsii, V.K., et al. [1995,eng] 50-3815
- Laboratory comparisons of organic materials to interstellar dust and the Murchison meteorite. Pendleton, Y.J., [1995,eng] 50-3025
- Laboratory infrared spectra (2.3–23 μm) of SO₂ phases: applications to ice surface analysis. Nash, D.B., et al. [1995,eng] 50-1463
- Laboratory simulation of polar stratospheric cloud formation. Iraci, L.T., et al. [1995,eng] 50-1333
- Laboratory study of sediment deformation: stress heterogeneity and grain-size evolution. Iverson, N.R., et al. [1996,eng] 50-6256
- Large strain finite-element analysis of snow. Meschke, G., et al. [1996,eng] 50-5923
- Light flash and ionization from hypervelocity impacts on ice. Burchell, M.J., et al. [1996,eng] 50-6530
- Liquefaction resistance of silty sand based on in situ frozen samples. Yoshimi, Y., et al. [1996,eng] 50-5080
- Low temperature ecology of a plant root bacterium. Sun, X.Y., et al. [1995,eng] 50-2733
- Low-temperature photochemistry of submicrometer nitric acid and ammonium nitrate layers. Koch, T.G., et al. [1996,eng] 50-6682
- Lumped-element model for subglacial transport of solute and suspended sediment. Clarke, G.K.C., [1996,eng] 50-6254
- Maintenance of the last great ice sheets: a UGAMP GCM study. Hall, N.M.J., et al. [1996,eng] 50-5531
- Making an ice core. Kopaska-Merkel, D.C., [1995,eng] 50-1150
- Mass dependence of energy loss in collisions of icy spheres: an experimental study. Dilley, J., et al. [1996,eng] 50-5196
- Mathematical models of ecosystem carbon cycle feedback effects. Ryzhova, I.M., [1996,eng] 50-5087
- Measurements of powder snow avalanches—laboratory. Keller, S., [1995,eng] 50-1059
- Mechanics of marine screw propeller ice cutting processes. Veitch, B., [1995,eng] 50-4154
- Melting driven thermohaline convection. Bénard, C., et al. [1996,eng] 50-3611
- Microbial responses to nitrogen additions in alpine tundra soil. Fisk, M.C., et al. [1996,eng] 50-6065
- Missing chemistry of reactive nitrogen in the upper stratospheric polar winter. Kawa, S.R., et al. [1995,eng] 50-1189
- Mixed-phase cloud scheme based on a single prognostic equation. Tremblay, A., et al. [1996,eng] 50-6665
- Model of arctic air pollution by sulfur aerosols. Dastoor, A.P., et al. [1996,eng] 50-5450
- Model of drag forces on sea ice bottom surfaces. Pite, H.D., et al. [1995,eng] 50-2740
- Model of Greenland and antarctic ice sheet thickness variations. Verbitskii, M.I.A., et al. [1995,eng] 50-642

Simulation

Simulation

- Modeling and observational study of East Antarctic surface mass balance. Connolley, W.M., et al. [1996,eng] 50-3017
- Modeling measurement errors when estimating snow water equivalent. Carroll, S.S., [1995,eng] 50-2605
- Modelling the redistribution of runoff caused by global warming. Martinec, J., et al. [1994,eng] 50-5202
- Molecular dynamics study of surface melting on ice crystal. Nada, H., et al. [1994,eng] 50-3073
- Near-infrared absorption coefficients of solid nitrogen as a function of temperature. Tryka, K.A., et al. [1995,eng] 50-1078
- Neutral and ionized PAHs: contribution to the interstellar extinction. Salama, F., et al. [1995,eng] 50-3021
- New high-pressure phase of ice. Benoit, M., et al. [1996,eng] 50-6096
- Nitrous oxide emission from an agricultural soil subjected to different freeze-thaw cycles. Chen, Y., et al. [1995,eng] 50-5687
- Nucleation of microcracks in ice cubes compressed equally on all boundaries. Weiss, J., et al. [1996,eng] 50-5867
- Numerical model simulation of a summer reversal of the Beaufort gyre. Preller, R.H., et al. [1989,eng] 50-4706
- Numerical modelling of ice jam resistance to main channel flow. Saadé, R.G., et al. [1995,eng] 50-6206
- Numerical reconstruction of a soft-bedded Laurentide Ice Sheet during the last glacial maximum. Clark, P.U., et al. [1996,eng] 50-6539
- Numerical simulation of arctic stratus cloud turbulence. Smith, W.S., et al. [1996,eng] 50-2773
- Numerical simulation of land-breeze-induced snowbanks along the western shore of Lake Michigan. Ballentine, R.J., [1982,eng] 50-3648
- Numerical simulation of river ice processes. Shen, H.T., et al. [1995,eng] 50-355
- Numerical simulations of topographic Rossby waves along the East Greenland front. Maslowski, W., [1996,eng] 50-5260
- Observation of a new absorption band of HOBr and its atmospheric implications. Barnes, R.J., et al. [1996,eng] 50-3968
- Observations of pressure effects on the creep of ice single crystals. Cole, D.M., [1996,eng] 50-4901
- Organic compounds produced by photolysis of simulated cometary ices. Bernstein, M.P., et al. [1995,eng] 50-2724
- Origin and structure of a numerically simulated polar low over Hudson Bay. Albright, M.D., et al. [1995,eng] 50-2526
- Outflow of dense water from the Storfjord in Svalbard: a numerical model study. Jungclauss, J.H., et al. [1995,eng] 50-2777
- Oxidation of S(IV) during riming by cloud droplets. Iribarne, J.V., et al. [1995,eng] 50-1103
- Paleoclimate data constraints on climate sensitivity: the paleocalibration method. Covey, C., et al. [1996,eng] 50-4150
- Parameterization of cloud ice crystal conversion processes. pt.1. Harrington, J.Y., et al. [1995,eng] 50-3260
- Parameterization of clouds and radiation in climate models. Roeckner, E., [1995,eng] 50-959
- Particle model for quasibrittle fracture and application to sea ice. Jirasek, M., et al. [1995,eng] 50-495
- Permafrost distribution in the northern hemisphere under scenarios of climatic change. Anisimov, O.A., et al. [1996,eng] 50-6619
- Phase transitions of water films adsorbed on pyrogenic silica. Bogdan, A., et al. [1996,eng] 50-2021
- Photochemistry of chlorine dioxide in ice. Pursell, C.J., et al. [1995,eng] 50-154
- Photodissociation of condensed films of chlorine dioxide. Langendorf, E.J., et al. [1996,eng] 50-6679
- Photoviscoelastic modeling of the creep of frozen soil. Zhao, X.S., et al. [1996,eng] 50-6743
- Phreatic water surface profiles along ice jams—an experimental study. Saadé, R.G., et al. [1996,eng] 50-6693
- Pipe rigidity as a failure index under explosive loads. Abd El Halim, A.O., et al. [1996,eng] 50-5047
- Pliocene climates: the nature of the problem. Crowley, T.J., [1996,eng] 50-6624
- Polarimetric detection of objects buried in snowpack by a synthetic aperture FM-CW radar. Yamaguchi, Y., et al. [1996,eng] 50-2700
- Possible high ice particle production during graupel-graupel collisions. Takahashi, T., et al. [1995,eng] 50-3005
- Post-yield strength of icebreaking ship structural members. DesRochers, C.G., et al. [1995,eng] 50-877
- Potential climatic change effects on western Canadian forests. Burton, P.J., et al. [1995,eng] 50-769
- Precipitation sensitivity to cloud microphysical parameters. Liu, Y.Q., et al. [1996,eng] 50-4353
- Pressure cutoff effects on polar stratospheric chemistry. Cerniglia, M.C., et al. [1995,eng] 50-588
- Pressure dependence of the reaction between ClO and OClO at 226K. Parr, A.D., et al. [1990,eng] 50-4733
- Proceedings. International Symposium on Biogeochemistry of Seasonally Snow-covered Catchments. Boulder, CO, July 1-14, 1995. [1995,eng] 50-2391
- Production and chemical analysis of cometary ice tholins. McDonald, G.D., et al. [1996,eng] 50-5833
- Profiles of particle characteristics in blowing snow. Naaim, M., et al. [1995,eng] 50-1062
- Propagation of sound above a finite layer of snow. Nicolas, J., et al. [1985,eng] 50-3699
- Radiation chemistry of ices of planetological interest at low temperature. Strazzulla, G., [1995,eng] 50-654
- Radiative properties of finite inhomogeneous cirrus clouds: Monte Carlo simulations. Chylek, P., et al. [1995,eng] 50-1471
- Rain production in convective clouds, pt.2. Reisin, T., et al. [1996,eng] 50-6325
- Rapid test for the determination of frost susceptibility of soils. Leary, R.M., [1977,eng] 50-4259
- Reaction probabilities of ClONO₂ and N₂O₅ on polar stratospheric cloud materials. Hanson, D.R., et al. [1991,eng] 50-3649
- Reaction probabilities of ClONO₂ and N₂O₅ on polar stratospheric cloud materials. Hanson, D.R., et al. [1991,eng] 50-3649
- Reactivity of ClONO₂ on H₂O ice and organic liquids. Hanson, D.R., [1995,eng] 50-1416
- Recent climatic trend and thermal response of permafrost in Salluit, northern Quebec, Canada. Wang, B.L., et al. [1996,eng] 50-6699
- Refractive index and density of vapor-deposited ice. Berland, B.S., et al. [1995,eng] 50-3096
- Relationship between atmospheric composition and snow composition for HCl and HNO₃. Dominé, F., et al. [1995,eng] 50-2392
- Release of major ions and hydrogen peroxide from homogeneous, melting snow. Herrmann, R., et al. [1995,eng] 50-4014
- Release of volatile halogenated organic compounds by unialgal cultures of polar macroalgae. Lantaras, F., [1995,eng] 50-1202
- Remote sensing of sea ice variations in response to atmospheric circulation. Maslanik, J.A., et al. [1995,eng] 50-1815
- Response of boreal forest ecosystems to climatic change and its silvicultural implications: modelling. Kellomäki, S., et al. [1994,eng] 50-3209
- Responses of arctic polar desert plant litter chemistry to climatic changes. Robinson, C.H., et al. [1995,eng] 50-5100
- Revisiting the degree-day method for snowmelt computations—discussion. Howard, C.D.D., [1996,eng] 50-4411
- Rheology of water ices V and VI. Durham, W.B., et al. [1996,eng] 50-3450
- Role of climate in periglacial solifluction. Harris, C., [1993,eng] 50-845
- Role of droplet composition in polar stratospheric cloud freezing. Meilinger, S.K., et al. [1995,eng] 50-4874
- Role of electrified ice meltwater in thunderstorms. Kamra, A.K., et al. [1984,eng] 50-4923
- Role of ice in the global water cycle. Lawford, R.G., [1993,eng] 50-5079
- Role of sediment transport in the mechanics of jökulhlaups. Fowler, A.C., et al. [1996,eng] 50-6269
- Runoff index values for frozen soil areas of the Pacific Northwest. McCool, D.K., et al. [1995,eng] 50-3525
- Saline ice sheet surface scattering with controlled roughness parameters. Bredow, J.W., et al. [1995,eng] 50-982
- Scaling of input data for macroscale hydrologic modeling. Kite, G.W., [1995,eng] 50-2544
- Sea ice variations under doubled atmospheric carbon dioxide. Timbal, B., et al. [1995,eng] 50-2734
- Search for proxy indicators of young sea ice thickness. Zabel, I.H.H., et al. [1996,eng] 50-4303
- Seasonal simulation of the southern ocean coupled ice-ocean system. Häkkinen, S., [1995,eng] 50-2113
- Sedimentation during needle ice growth in soil. Branson, J., et al. [1996,eng] 50-3646
- Seeding implications of ice crystal growth in the turbulent boundary layer. Levy, G., et al. [1984,eng] 50-4496
- Sensitivity of numerical prognoses to antarctic sea ice distribution. Watkins, A.B., et al. [1995,eng] 50-2111
- Sensitivity of squall-line rear inflow to ice microphysics and environmental humidity. Yang, M.J., et al. [1995,eng] 50-1527
- Simulated effects of dichlorine hexoxide on stratospheric ozone depletion. Parthiban, S., et al. [1995,eng] 50-2019
- Simulated structure of ice nanocrystal surface. Buch, V., et al. [1996,eng] 50-4183
- Simulating the evolution of the chemical composition of the 1988/89 winter vortex. Jones, R.L., et al. [1990,eng] 50-6024
- Simulation and analysis of upper Niagara River ice-jam conditions. Wang, D.S., et al. [1995,eng] 50-356
- Simulation and observation of ice formation (freeze-over) in a lake. Fang, X., et al. [1996,eng] 50-5466
- Simulation of arctic stratospheric response to aerosol perturbations. Zhao, X.P., et al. [1996,eng] 50-6680
- Simulation of clathrate hydrate thermal conductivity. Inoue, R., et al. [1996,eng] 50-5505
- Simulation of climatic model of global snow cover evolution. Douville, H., et al. [1995,eng] 50-2736
- Simulation of extraterrestrial ice radiation absorption properties. Schutte, W.A., et al. [1995,eng] 50-3023
- Simulation of Pleistocene glacial limits in Yunnan, China. Aniya, M., et al. [1991,eng] 50-3307
- Simulation of polar stratospheric aerosols. Kaye, J.A., et al. [1990,eng] 50-6019
- Simulation of runoff processes of a continental mountain glacier in the Tian Shan, China. Kang, E.S., et al. [1995,eng] 50-2439
- Simulation of soil moisture variations reflecting the hydrological cycle. Akimeri, O.O., et al. [1996,eng] 50-5918
- Simulation of summer snowmelt on the Greenland ice sheet using a one-dimensional model. Rowe, C.M., et al. [1995,eng] 50-585
- Simulation of the seasonal arctic sea-ice cover with a dynamic thermodynamic sea-ice model. Holland, D.M., et al. [1993,eng] 50-5186
- Singularities in simulation of ice sheet-solid impact regime. Darr, D.G., et al. [1995,eng] 50-2163
- Slow dynamics of water molecules in supercooled states. Gallo, P., et al. [1996,eng] 50-4293
- Small ice cap instability in the presence of fluctuations. Lee, W.H., et al. [1995,eng] 50-641
- Snow and ice cover and climate sensitivity. Oerlemans, J., et al. [1995,eng] 50-3246
- Solvation of hydrogen halides on the surface of ice. Robertson, S.H., et al. [1995,eng] 50-6069
- Some effects of conductor twisting on galloping. Richardson, A.S., Jr., [1980,eng] 50-3698
- Sorption of nonpolar organic vapors by ice and snow. Hoff, J.T., et al. [1995,eng] 50-644
- Spectra of mixed ices on Io. Dahmani, R., et al. [1996,eng] 50-6071
- Spectroscopy of freezing mechanisms of sulfuric acid aerosols. Bertram, A.K., et al. [1996,eng] 50-4143
- Sputtering of water ice surfaces and the production of extended neutral atmospheres. Shi, M., et al. [1995,eng] 50-2774
- Straight line measurements of an open four-sided figure. Hofmann, W., [1958,ger] 50-4633
- Structure of amphiphile monolayer adsorbed on ice Ih. Bell, K.P., et al. [1996,eng] 50-4023
- Structures and phase transitions of amorphous ices. Okabe, I., et al. [1996,eng] 50-5103
- Study of H₂O contamination on a cooled optical surface. Guo, Q., et al. [1995,eng] 50-6527
- Subgrid parameterization of surface heat and momentum fluxes over polar oceans. Vihma, T., [1995,eng] 50-2110
- Sublimation of dry ice pellets used for cloud seeding. Kochubajda, B., et al. [1985,eng] 50-4593
- Sulfuric acid monohydrate: formation and heterogeneous chemistry in the stratosphere. Zhang, R.Y., et al. [1995,eng] 50-635
- Surface features of interstellar ice. McCoustra, M., et al. [1996,eng] 50-5244
- Surface layers on ice. Knight, C.A., [1996,eng] 50-6058
- Suspended sediment weathering in alpine glacial meltwater. Brown, G.H., et al. [1996,eng] 50-6088
- Temperature dependence of static charging in ice growing by riming. Avila, E.E., et al. [1995,eng] 50-3004
- Temperature elevation effects on arctic soil insects. Coulson, S.J., et al. [1996,eng] 50-3529
- Testing facilities—self refrigerating units. Frost cabinet temperature distribution. Hill, J., [1977,eng] 50-2314
- Theory of atmospheric ice crystal growth and sublimation. Nelson, J.T., et al. [1996,eng] 50-4351
- Theory of lattice Boltzmann simulations of glacier flow. Bahr, D.B., et al. [1995,eng] 50-1883
- Thermal conductivity of model ice comet surfaces. Ibadinov, Kh.I., et al. [1987,eng] 50-1770
- Thermodynamic stability of hydrates for ethane, ethylene, and carbon dioxide. Kvamme, B., et al. [1996,eng] 50-5019
- Three-layer model of flow under the ice cover in rivers. Debo'skii, V.K., et al. [1995,eng] 50-352
- Tibetan alpine ecosystem response to climatic changes. Zhang, Y.Q., et al. [1996,eng] 50-5495
- Time-dependent wave-packet studies on the sticking of HCl to an ice surface. Wang, L.C., et al. [1996,eng] 50-4767
- Transition from normal to fast sound in liquid water. Sette, F., et al. [1996,eng] 50-5710
- Tree tissue xylem dysfunction from freezing stress. Hacke, U., et al. [1996,eng] 50-5773
- Turbine engine icing spray bar design issues. Bartlett, C.S., [1995,eng] 50-1654
- Two-year simulation of the Great Lakes region with a coupled modeling system. Bates, G.T., et al. [1995,eng] 50-1566
- Ultraviolet photodesorption from water ice. Westley, M.S., et al. [1995,eng] 50-3024
- Ultraviolet radiation effects on arctic lake water organic chemistry. Scully, N.M., et al. [1996,eng] 50-5820
- Unsuitability of meteoritic and other nuclei for polar stratospheric cloud freezing. Biermann, U.M., et al. [1996,eng] 50-6513
- Uptake of chlorine dioxide by model PSCs under stratospheric conditions. Brown, L.A., et al. [1996,eng] 50-4164
- Uptake of HBr on ice at polar atmospheric conditions. Chu, L.T., et al. [1995,eng] 50-3090
- Use of remotely sensed data in the hydrological modelling of the upper Columbia watershed. Kite, G.W., [1996,eng] 50-5538
- Validation of backscatter models for level and deformed sea-ice in ERS-1 SAR images. Carlström, A., et al. [1995,eng] 50-1811
- Validation of climate model for snow cover variations. Douville, H., et al. [1995,eng] 50-2735
- Vitamin C in the prevention and treatment of frostbite. Purkayastha, S.S., et al. [1992,eng] 50-4224
- Watershed hydrochemistry simulation. Ohte, N., et al. [1995,eng] 50-2410
- Wear resistant concrete for pavements. Pedersen, N., [1988,eng] 50-4227
- Winter surface energy budget in Denver, Colorado. Ruffieux, D., [1995,eng] 50-2152

See [also]: Computerized simulation; Environment simulation; Models

Sinks

- Sinks**
See [also]: Heat sinks
- Sintering**
Mechanism of formation of nanocrystalline hematite prepared by freeze-drying. Bernejo, E., et al. [1995.eng] 50-4289
- Site accessibility**
Logistics in remote areas in Greenland. Andersson, T.I.H., et al. [1995.eng] 50-2967
- Site surveys**
1971 performance survey of DEW Line ice cap stations DYE-2 and DYE-3. Flax, D., et al. [1971.eng] 50-5756
Algae in terrestrial phytocenoses of the east European Arctic. Patova, E., [1995.eng] 50-3175
Bryophytes collected in arctic tundra of the Lyellstranda region. Swies, F., et al. [1993.eng] 50-2193
Chaudière Island proposed snow dumping facility: an environmental appraisal. Lopez, K., et al. [1981.eng] 50-1200
Development of a mobile garage/vehicle servicing facility, Halley scientific station. Smith, A.L., et al. [1994.eng] 50-4268
Differences in carbon accumulation of two cut-over peatlands in Finland. Roderfeld, H., et al. [1994.eng] 50-3226
Distribution of vascular plants in Sørkapp Land (Spitsbergen). Dubiel, E., [1993.eng] 50-2185
Diversity of pine forests in the Lapland State Reserve, the Kola Peninsula. Neshataev, V.I.U., et al. [1995.eng] 50-3174
Drilling and sampling of permafrost for site investigation purposes: a review. Riddle, C.H., et al. [1991.eng] 50-1747
Dry tundra succession in Central Chukotka. Kucherov, I.B., [1995.eng] 50-3173
Effect of the mineral composition of soils on the coastal vegetation of the Chukotskiy Peninsula. Sergienko, L.A., [1991.rus] 50-1308
Ground-penetrating radar investigation of the proposed dome-CARA tunnel route (South Pole Station). Arcone, S.A., et al. [1995.eng] 50-4543
Intralandscape diversity of the flora of the Tazovsky Peninsula. Khitun, O.V., [1995.eng] 50-3172
Investigation of proposed snow dump facility. Gore & Storrie Limited, Ottawa, Ontario. [1983.eng] 50-1197
Logistics in remote areas in Greenland. Andersson, T.I.H., et al. [1995.eng] 50-2967
Materials for a flora of the leafy mosses of the European part of the Northern Urals. Zheleznova, G.V., et al. [1995.eng] 50-3177
Northern wilderness areas: ecology, sustainability, values. International Conference on Northern Wilderness Areas, Arctic Centre, University of Lapland, Rovaniemi, Finland, Dec. 7-9, 1994. [1995.eng] 50-3167
OTH-backscatter power plant foundation design for warm, ice-rich permafrost soils. Foster, M.L., et al. [1991.eng] 50-1735
Plant species diversity of Bely Island. Rebristain, O.V., [1995.eng] 50-3176
Practical considerations for GRM refraction surveys in glacial terrains. Kassenar, D., et al. [1993.eng] 50-5516
Preliminary mycobionta (Aphyllophorales, Fungi) of timberline forests in the West Siberian plateau. Kotiranta, H., [1995.eng] 50-3168
Role of the varieties of the *Mniaceae* family in tundra communities of Spitsbergen. Karozmarz, K., et al. [1989.pol] 50-2924
Route location and siting of roads and airfields. Schraeder, R.L., et al. [1996.eng] 50-6187
Sea ice landing strip for Boeing-727 in northern Greenland. Sinha, N.K., [1995.eng] 50-2973
Snow disposal sites—the Regional Municipality of Ottawa-Carleton experience. Becking, J.I., [1986.eng] 50-1196
Snow disposal study for the designated growth centres. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1990.eng] 50-1153
- Skid resistance**
Analysis of winter skid accidents in Sapporo City and Asahikawa City. Nagai, T., et al. [1995.jpn] 50-6792
Analysis of winter skid accidents in Sapporo City. Nagai, T., et al. [1994.jpn] 50-2827
Basic characteristics of antiskid rubber mats for roads. Yoshino, M., et al. [1995.jpn] 50-6805
Effect of the popularization of studless tires on traffic conditions. Horita, N., et al. [1995.jpn] 50-6789
Evaluation of winter vehicle traction with different types of tires. Lu, J.J., et al. [1995.eng] 50-5709
Experimental pavement for road freezing countermeasures in Sapporo City. Katayama, K., et al. [1995.jpn] 50-6804
Friction of rubber at low temperature. Uchiyama, Y., et al. [1995.jpn] 50-3514
History of snow tire. Aoi, H., [1995.jpn] 50-3513
Material characteristics of studless tire. Hirata, Y., [1995.jpn] 50-3515
Mitigation and durability of icy roads with urethane filled pavement grooving. Takeda, Y., et al. [1995.jpn] 50-6806
Pedestrian slipping accidents and their prevention. Kelikka, M., [1995.fin] 50-5507
Pneumatic tire with improved drivability on icy roads. Harada, M., et al. [1993.eng] 50-3486
Road surface covered with snow and ice and traffic accidents in Hokkaido. Takagi, H., [1995.jpn] 50-3512
Roadside temperature displays and use of studless tires. Takagi, H., [1993.jpn] 50-2840
Rubber composition for tire treads. Takao, H., et al. [1987.jpn] 50-3485

- Self-contained anti-skid device for pneumatic tires. Yadegar, I., [1995.eng] 50-3458
Skid resistance of asphalt concrete pavements. Abe, A., et al. [1994.jpn] 50-2830
Standard test methods for tire performance testing on snow and ice surfaces. American Society for Testing and Materials, [1995.eng] 50-886
Trends in winter tires as seen in the patents. Iwasaki, S., [1995.jpn] 50-994
Using antiskid materials as road icing countermeasures. Miyamoto, S., et al. [1994.jpn] 50-2833
Vehicle traction performance comparison for Alaska winter seasons. Lu, J.J., [1996.eng] 50-6162
Wheels that provide lateral friction on ice. Alderman, R.L., et al. [1995.eng] 50-3460
See [also]: Traction
- Skis**
Apparatus and method for powered thermal friction adjustment. Tabar, W.J., [1995.eng] 50-3462
Capillary bonding of wet surfaces and adhesion of skis to ice. Colbeck, S.C., [1996.eng] 50-6038
Coefficient of kinetic friction between ski and snow. Leino, M.A.H., et al. [1984.eng] 50-3838
Development of ski manufacturing technology as seen in the patents. Shimada, T., [1995.jpn] 50-3516
Experimental study of skiing turns, pt.3. Sahashi, T., et al. [1996.eng] 50-5919
Free vibrations of a snowboard. Sakata, T., et al. [1996.eng] 50-4568
Landscape damage by skiing at the Schausland in the Black Forest, Germany. Ries, J.B., [1996.eng] 50-4234
Measurements of friction between snow and ski running surfaces. Part 2. Palosuo, E., et al. [1979.fin] 50-4025
Optimal structural damping of skis using a genetic algorithm. Marcelin, J.L., et al. [1995.eng] 50-890
Optimization of a racing ski. Carlsson, P., et al. [1995.eng] 50-891
Profession: cross country ski patrol. Ours, L., [1996.fre] 50-4870
Skier triggered slab avalanche release—some practical implications. Schweizer, J., et al. [1995.eng] 50-4687
Sliding of skis. Midol, A., et al. [1986.fre] 50-487
Smart skis and other adaptive structures. Ashley, S., [1995.eng] 50-4618
Towed geophone system for use in snow-covered terrain. King, E.C., et al. [1996.eng] 50-6225
- Slab avalanches**
See [also]: Snow slides
- Slide sections**
See [also]: Microscope slides; Thin sections
- Sliding**
Abraded rock landforms (whalebacks) developed under ice streams in mountain areas. Evans, J.S., [1996.eng] 50-6234
Assessment of rock glacier sliding velocity. Whalley, W.B., et al. [1995.eng] 50-2809
Borehole video analysis of subglacial flow and structure. Harper, J.T., et al. [1995.eng] 50-1100
Coefficient of kinetic friction between ski and snow. Leino, M.A.H., et al. [1984.eng] 50-3838
Comment on paper by Reid, Jr., et al. Sharp, R.P., et al. [1996.eng] 50-6540
Computer simulations of Alaskan neotectonics. Bird, P., [1996.eng] 50-6215
Experimental study of skiing turns, pt.3. Sahashi, T., et al. [1996.eng] 50-5919
Glacial quarrying: a simple theoretical model. Hallet, B., [1996.eng] 50-6233
Hydraulic run-away: a mechanism for thermally regulated surges of ice sheets. Fowler, A.C., et al. [1995.eng] 50-1876
Ice microcracking due to grain boundary sliding. Elvin, A.A., et al. [1996.eng] 50-4185
Is erosion by deforming subglacial sediments significant? (Toward till continuity). Cuffey, K., et al. [1996.eng] 50-6235
Measurements of friction between snow and ski running surfaces. Part 2. Palosuo, E., et al. [1979.fin] 50-4025
Nucleation of microcracks in ice cubes compressed equally on all boundaries. Weiss, J., et al. [1996.eng] 50-5867
Observation of slip transmission through a grain boundary in ice. Jia, K., et al. [1996.eng] 50-5297
Pressure melting and ice skating. Colbeck, S.C., [1995.eng] 50-408
Sliding of glacial till over bedrock. Hindmarsh, R.C.A., [1996.eng] 50-6238
Sliding rocks at the Racetrack, Death Valley: what makes them move. Reid, J.B., Jr., et al. [1995.eng] 50-1106
Thermomechanical response of the Greenland ice sheet to various climate scenarios. Calov, R., et al. [1996.eng] 50-4522
Topographic control on the dynamics of the Svalbard-Barents Sea ice sheet. Siegert, M.J., et al. [1996.eng] 50-5306
See [also]: Basal sliding
- Slope orientation**
Characteristics of the seasonal freezing of rocks in the Tien Shan. Severskii, E.V., [1996.rus] 50-6368
Correction of satellite radar altimetry of antarctic ice sheets. Cooper, A.P.R., et al. [1996.eng] 50-5073
Dependence of rock stream development on geomorphological-tectonic features. Mal'chikova, I.I.U., [1993.rus] 50-117
Digital terrain model of topographic obstruction to solar radiation in the Tien Shan. Li, X., et al. [1995.chi] 50-3997

- Evaluating snow cover depth in a mountain basin from satellite information. Pichugina, E.L., et al. [1991.rus] 50-4
Formation characteristics of the thermal regime of rocks in the Vitim River. Leibman, M.O., [1985.rus] 50-248
Frost heave susceptibility in Transbaikalia. Sal'nikov, P.I., [1996.rus] 50-6399
Geocryological typification of a territory according to frost heave formation conditions. Verkhovzin, I.I., et al. [1993.rus] 50-113
High-altitude distribution of the seasonal snow line in a mountain river basin. Tursunov, U.O., [1991.rus] 50-5
Ice accumulation in rock streams of northern Transbaikalia. Verkhovturov, A.G., [1993.rus] 50-118
Icelandic turf-banked terrace geomorphology. Douglas, T.D., et al. [1996.eng] 50-5498
Initiation and development of natural ground ice exposures. Canadian Arctic. Lewkowicz, A.G., [1990.eng] 50-1633
Long range forecasting of avalanche regimes and some ecological changes on Zailiyskiy Alatau. Kondrashov, I.V., et al. [1991.rus] 50-9
Modelling mountain slopes from the Late Vistulian in Spitsbergen. Drecki, J., [1989.pol] 50-2881
Observations of the mobility of rock streams in the Udokan Range. Romanovskii, N.N., et al. [1996.rus] 50-6403
Permafrost soil thawing after forest fires. Swanson, D.K., [1996.eng] 50-5497
Rapid calculation of direct radiation on sloping fields. Wang, J., et al. [1995.chi] 50-5629
Terrain as a controlling factor for slush streams in Spitsbergen. Scherer, D., et al. [1994.eng] 50-1588
Topographic origin for double-ridge features in visible imagery of ice divides in Antarctica. Goodwin, A.H., et al. [1995.eng] 50-1870
Using Rutschblock testing to avoid avalanches. Abromet, D., [1995.eng] 50-2863
- Slope processes**
Basic study of pyroclastic flow on a snow-covered slope. Miura, A., et al. [1994.jpn] 50-2836
Case studies of geoprocesses and environmental change in mountains of northern Sweden. Rapp, A., [1995.eng] 50-4187
Characteristics of the development of thermo-erosional gullies on mid-alassy slopes. Varlamov, S.P., [1996.rus] 50-6405
Chronology of Upper Pleistocene stratified slope-waste deposits in central Italy. Colorti, M., et al. [1996.eng] 50-6700
Development of cryogenic processes in the Baykal region. Leshchikov, F.N., [1996.rus] 50-6397
Estimating long-term rockfall accretion rates by lichenometry. Luckman, B.H., et al. [1995.eng] 50-4836
Experimental design for laboratory simulation of periglacial solifluction processes. Harris, C., et al. [1996.eng] 50-5778
Finite element analysis of the creep of debris containing thin ice bodies. Azizi, F., et al. [1995.eng] 50-183
Gelifluction in the alpine periglacial environment of the Tianshan Mountains, China. Liu, G.N., et al. [1996.eng] 50-6704
Gelifluction rates as global change indicators. Kirkby, M.J., [1995.eng] 50-4195
Hillslope ice wedges and landform evolution on coastal arctic Canada. Mackay, J.R., [1995.eng] 50-3298
Holocene climate fluctuations and geomorphic impact of extreme events in Svalbard. André, M.F., [1995.eng] 50-4192
Holocene debris-flow activity in northern Sweden. Jonasson, C., [1993.eng] 50-837
Influence of local factors on solifluction rates, Spitsbergen, Svalbard. Repelwewa-Pekalowa, J., et al. [1993.eng] 50-842
Latest Quaternary foraminifers and sediment transport in Peruvets Canyon, Bering Sea. Starratt, S.W., [1995.eng] 50-3347
Lichenometric dating of arctic/alpine slope processes. McCarroll, D., [1993.eng] 50-847
Mathematical analysis of the flow of soils down a slope. Petrov, V.S., et al. [1993.rus] 50-119
Model of avalanche deceleration at a change to a more gradual slope. Bojo, C., et al. [1996.jpn] 50-6730
Mountain permafrost and slope instability in the Italian Alps: the Val Pola landslide. Dramis, F., et al. [1995.eng] 50-669
New Zealand talus-derived rock glacier climatic responses. Kirkbride, M., et al. [1995.eng] 50-6561
Nivation in the High Tatras, Poland. Rączkowska, Z., [1995.eng] 50-4193
Observations of the mobility of rock streams in the Udokan Range. Romanovskii, N.N., et al. [1996.rus] 50-6403
Paleoclimatic implications of Norwegian postglacial avalanches. Blikra, L.H., et al. [1993.eng] 50-835
Paleogeographic significance of Norwegian block field periglacial processes. Sellier, D., [1995.fre] 50-4878
Periglacial denudation in the Richardson Mountains. Fried, G., et al. [1993.eng] 50-1675
Periglacial elements in the geological structure and relief of northern Częstochowa. Kobojek, S., [1990.pol] 50-4941
Periglacial landforms and sediments in Argentina. Trombetta, D., [1991.ger] 50-1684
Periglacial landforms and sediments. Semmel, A., [1990.ger] 50-1793
Permafrost, gelifluction and fluvial sediment transfer in the Austrian Alps. Veit, H., et al. [1993.eng] 50-1676
Pleistocene slope deposits related to the Saint-Maurice Rhythmites, St. Lawrence Valley, Québec. Hétu, B., et al. [1995.fre] 50-4883

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Snow accumulation

- Protalus formation mechanisms in Norwegian sediments. Shakesby, R.A., et al. [1995.eng] 50-3328
- Quaternary glacial in the Andes. Heine, K., [1995.eng] 50-4837
- Role of climate in periglacial solifluction. Harris, C., [1993.eng] 50-845
- Scottish landform examples. 8: Solifluction sheets in the Bowmont Valley, Cheviot Hills. Harrison, S., [1993.eng] 50-3015
- Slope erosion processes in the Alps. Becht, M., [1995.eng] 50-4829
- Slope processes and climate in the Abisko Mountains, northern Sweden. Rapp, A., et al. [1993.eng] 50-836
- Solifluction and climatic variation in the Holocene. Frenzel, B., et al. [1993.eng] 50-823
- Solifluction and creep rates 1972-1991, Kapp Linné, West Spitsbergen. Åkerman, H.J., [1993.eng] 50-841
- Solifluction and related slope processes in the mountains of central Asia (Mongolia). Pekala, K., et al. [1993.eng] 50-832
- Solifluction controls in the French Alps. Pissart, A., [1993.eng] 50-839
- Stationary study of the dynamics of shoreline slopes in the Bol'shezemel'skaya tundra. Glavatskikh, V.V., et al. [1996.rus] 50-6410
- Stepland geomorphology. Slaymaker, O., ed. [1995.eng] 50-4827
- Stratified slope deposits: the stone-banked sheets and lobes model. Bertran, P., et al. [1995.eng] 50-4834
- Slope protection**
- Debris flows in the eastern Qinghai-Xizang Plateau. Tang, B.X., et al. [1994.eng] 50-4785
- Landslide hazards along the highways of the Qinghai-Xizang Plateau. Wang, C.H., [1994.eng] 50-4784
- Recent debris flow disaster and its prevention in east Qinghai-Xizang Plateau. Tang, B.X., et al. [1992.chi] 50-1495
- Slope stability**
- Avalanche prediction for persistent snow slabs. Jamieson, J.B., [1995.eng] 50-3707
- Avalanche prevention and soil control in the Mount Krížná area. Midriak, R., [1976.cze] 50-5142
- Coal mine spoil instability in discontinuous permafrost. Hardy, A.J., et al. [1996.eng] 50-6166
- Council of Europe's Open Partial Agreement on Major Hazards. EUR-OPA. Tondre, F., [1995.fre] 50-4645
- Cyclic triaxial tests of the Bootlegger Cove Formation, Anchorage, Alaska. Lade, P.V., et al. [1988.eng] 50-405
- Debris flows in the eastern Qinghai-Xizang Plateau. Tang, B.X., et al. [1994.eng] 50-4785
- Earthquake induced landslide in Anchorage, 1964. Upldike, R.G., et al. [1988.eng] 50-401
- Guidebook on debris flow control. Zhou, B.F., ed. et al. [1991.chi] 50-5008
- Holocene development of a debris slope in subarctic Québec, Canada. Marion, J., et al. [1995.eng] 50-2857
- Landslide hazards along the highways of the Qinghai-Xizang Plateau. Wang, C.H., [1994.eng] 50-4784
- Method of controlling spring snow thawing on slopes. Feodorov, L., [1993.eng] 50-2238
- Mutual influence of ice heave and interlayer swelling in clay rocks. Final report (draft). Czarda, K.A., et al. [1986.eng] 50-1690
- Nature of the displacement of dispersed rocks on slopes. Petrov, V.S., et al. [1996.rus] 50-6402
- Problems in protecting the geological environment: in the example of Eastern Siberia. Pinneker, E.V., ed. [1993.rus] 50-91
- Recent debris flow disaster and its prevention in east Qinghai-Xizang Plateau. Tang, B.X., et al. [1992.chi] 50-1495
- Slope erosion processes in the Alps. Becht, M., [1995.eng] 50-4829
- Slope stability problems in open pit coal mines in permafrost regions. Vakili, J., [1991.eng] 50-1749
- Snowmelt-induced earth and rock flows. Watanabe, N., et al. [1992.jp] 50-3136
- Undrained shear strength for liquefaction flow failure analysis. Konrad, J.M., et al. [1995.eng] 50-1824
- Using Rutschblock testing to avoid avalanches. Abromeit, D., [1995.eng] 50-2863
- Volcanic eruption at a New Zealand ski resort prompts reevaluation of hazards. Ruapehu Surveillance Group, [1996.eng] 50-5501
- Slopes**
- Effect of introduced disturbances on the development of thermoerosional processes. Glavatskikh, V.V., et al. [1996.rus] 50-6404
- Lichenometric indications of the intensity of some exogenic processes. Galanin, A.A., [1996.rus] 50-6413
- Modelling mountain slopes from the Late Vistulian in Spitsbergen. Drecki, J., [1989.pol] 50-2881
- Thermal differentiation in slopes of a small periglacial valley (Bellund, Spitsbergen). Lancelotti, M., et al. [1989.pol] 50-2910
- Slovakia**
- Characteristics of winters in a high mountain region climate in a period of new climatic norms. Kveták, Š., et al. [1991.rus] 50-3521
- Comparison of air temperature and humidity in standard and experimental shelters at Lomnický štít. Gajar, B., et al. [1991.eng] 50-3523
- Reflection of weather conditions in the chemistry of horizontal fog/cloud precipitation. Škvarčina, J., et al. [1991.eng] 50-3522
- Special problems of the precipitation conditions evaluation in mountainous areas of Slovakia. Lapin, M., et al. [1991.eng] 50-3520
- Slovakia—Carpathian Mountains**
- Avalanche prevention and soil control in the Mount Krížná area. Midriak, R., [1976.cze] 50-5142
- Slovenia**
- Ice-prone grounded transmission wires in Slovenia. Jakše, J., et al. [1996.eng] 50-5405
- Snow hazard information system in Slovenia. Horvat, A., [1995.eng] 50-4653
- Sludges**
- Alternatives for closure of solid oily waste sites on the North Slope of Alaska. Kellems, B.L., et al. [1991.eng] 50-1709
- Biological phosphorus removal: effect of low temperature. Kumar, P., et al. [1996.eng] 50-4755
- Biological treatment of waste water containing glycols from deicing agents. Nitschke, L., et al. [1996.eng] 50-3619
- Freeze/thaw treatment on waste activated sludge: a FTIR spectroscopic study. Hong, S.G., et al. [1995.eng] 50-1568
- Freeze/thaw treatment on zone settling of waste activated sludges. Chen, G.W., et al. [1996.eng] 50-5043
- Incorporation and rejection of alum sludge flocs by an advancing freezing front. Parker, P.J., et al. [1996.eng] 50-6170
- Natural freeze-thaw dewatering of aerated lagoon sludges. Desjardins, M.A., et al. [1996.fre] 50-5808
- Predicting the level of frost penetration into landfill covers. Moo-Young, H.K., Jr., et al. [1996.eng] 50-6169
- Slush**
- AC breakdown process of snow sample simulating capped snow on insulator strings. Higashiyama, Y., et al. [1996.eng] 50-5383
- Bacterial ecosystem dynamics in a high mountain lake. Alfreder, A., et al. [1996.eng] 50-5681
- Effect of sea ice surface features on radar backscatter. Ulander, L.M.H., et al. [1995.eng] 50-1813
- Forced-convection melting characteristics of liquid ice in a horizontal rectangular duct. Yamada, M., et al. [1996.eng] 50-6465
- Freezing of an aqueous sodium chloride saturated packed bed. Choi, J., et al. [1993.eng] 50-5781
- Heat flux through Weddell Sea ice cover. Lytle, V.L., et al. [1996.eng] 50-5263
- Holocene climate fluctuations and geomorphic impact of extreme events in Svalbard. André, M.F., [1995.eng] 50-4192
- Hydraulic conveying of snow and ice. (3): measurement of pipe flow. Shirakashi, M., et al. [1996.jp] 50-4934
- Hydraulic transport of snow; (4): snow overload detector for snow/water mixing tank. Murayama, K., et al. [1996.jp] 50-4926
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995.eng] 50-3123
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995.eng] 50-6046
- Ice detection apparatus for transportation safety. Stolarczyk, L.G., et al. [1995.eng] 50-3475
- Lichenometric analysis of the Kärkerieppe slush-avalanche fan, Kärkevegge, Sweden. Bull, W.B., et al. [1995.eng] 50-4191
- Liquid ice melting along a bundle of heated cylinders. Yamada, M., et al. [1996.eng] 50-4965
- Prediction of slushflow hazard—research project in Rana, Norway. Hestnes, E., et al. [1995.eng] 50-404
- Recent fluvial sediment budgets in glacial and periglacial environments, NW Spitsbergen. Barsch, D., et al. [1994.eng] 50-1584
- Review of dynamical studies on hydraulic transportation of snow. Umemura, T., [1996.jp] 50-6731
- Slush stream phenomena—process and geomorphic impact. Barsch, D., et al. [1993.eng] 50-1674
- Slushflow prediction in Rana, Norway. Hestnes, E., et al. [1993.nor] 50-402
- Slushflow prediction project in Rana, Norway. Hestnes, E., et al. [1995.eng] 50-4691
- Snowmelt and slush torrents in Swedish Lapland. Gude, M., et al. [1995.eng] 50-4188
- Terrain as a controlling factor for slush streams in Spitsbergen. Scherer, D., et al. [1994.eng] 50-1588
- Weather and snowpack conditions essential to slushflow release and downslope propagation. Hestnes, E., et al. [1994.eng] 50-403
- See [also]: Wet snow
- Smelting**
- Ancient pollution recorded in Greenland ice. Hong, S.M., et al. [1996.eng] 50-3956
- Smoke generators**
- Hail prevention in southwestern France. Dessens, J., [1986.eng] 50-4912
- Snow scavenging effects on large-area smoke screens. Slota, J.R., et al. [1991.eng] 50-764
- Snow scavenging on the winter battlefield. Slota, J.R., et al. [1990.eng] 50-735
- Snow**
- Measuring snow particle size from video radar images. Hatanaka, M., et al. [1995.eng] 50-2379
- Pneumatic regeneration system of a filtration substance in filters. Tomaides, M., et al. [1962.cze] 50-2228
- Remote-sensing data used in a polar atmosphere and cryosphere study. Hirasawa, N., et al. [1995.jp] 50-1695
- Ultraviolet radiation in the southern seas in early spring 1993. Wendler, G., et al. [1994.eng] 50-4241
- Use of remote sensing spacecraft in real-time support for disaster management. Tortorici Montaperto, A., et al. [1992.eng] 50-620
- Using group explosions on the surface of antarctic glaciers during deep seismic sounding research. Shumilov, A.V., [1993.rus] 50-4508
- See [also]: Artificial snow; Blowing snow; Colored snow; Falling snow; Slush; Wet snow
- Snow (construction material)**
- Compacted snow road. 1. Properties of snow. Eriksson, R., [1959.eng] 50-3853
- Compacted snow runway technology at McMurdo. Blaisdell, G.L., et al. [1995.eng] 50-1193
- Contributions to antarctic research IV. Elliot, D.H., ed. et al. [1995.eng] 50-1190
- Design of undersnow facilities for Byrd Station. Mellor, M., et al. [1962.eng] 50-3805
- Development of a small snow compressor and fracture strength of compacted snow columns. Miyazaki, N., et al. [1995.jp] 50-989
- Ice shell roof for use in cold areas. Kokawa, T., [1984.eng] 50-3166
- Temporary snow and ice pavement structures. Scher, R.L., [1996.eng] 50-6189
- Snow accumulation**
- 10-century comparison of prominent bipolar volcanic events in ice cores. Langway, C.C., Jr., et al. [1995.eng] 50-583
- Afforestation control of disastrous snow drifting on rugged terrain in Xinjiang. Hu, R.J., et al. [1994.eng] 50-4000
- AFGWC snow analysis model. Hall, S.J., [1986.eng] 50-2469
- Assessing the hazard of too much or too little snow in the pastoral regions of China. Gu, Z.W., et al. [1995.chi] 50-3976
- Behavior of the East Antarctic ice sheet as deduced from a coupled GCM/ice-sheet model. Verbitskii, M.I.A., et al. [1995.eng] 50-4538
- Calculating snow depth in avalanche catchments. Kanaev, L.A., et al. [1991.rus] 50-6
- Century of accumulation and temperature changes in Dronning Maud Land, Antarctica. Isaksson, E., et al. [1996.eng] 50-4352
- Climate change and GCM simulation of water resources from mountain snowpack. McGinnis, D.L., [1994.eng] 50-6690
- Climatic effects on terminus variations of a Norwegian glacier. Nesje, A., et al. [1995.eng] 50-1836
- Climatic influences on Chinese water resources. Shi, Y.F., et al. [1995.eng] 50-4231
- Computer modeling of avalanche triggering by wind. Sivardière, F., et al. [1995.eng] 50-1064
- Correlation between atmospheric pressure anomalies and snowpack accumulation. McCabe, G.J., Jr., et al. [1995.eng] 50-1551
- ECMWF analyses and predictions of the surface climate of Greenland and Antarctica. Genton, C., et al. [1995.eng] 50-1327
- Evolution of snow cover and avalanche activity in the Italian Alps during winter 1993-94. Lizzero, L., et al. [1994.ita] 50-1562
- First results of $^{15}\text{N}/^{14}\text{N}$ ratios in nitrate from alpine and polar ice cores. Freyer, H.D., et al. [1996.eng] 50-3724
- Glacio-meteorological and isotopic studies along the EGIG line, central Greenland. Fischer, H., et al. [1995.eng] 50-1873
- Glaciological data collected by JARE-35, 1994-1995. Shiraiwa, T., et al. [1996.eng] 50-5804
- Greenland and United Kingdom paleotemperatures comparisons from Greenland snow accumulation rates. Lowe, J.J., et al. [1995.eng] 50-1082
- Greenland ice sheet climate record of the past 16,500 years. Stuiver, M., et al. [1995.eng] 50-2015
- Ground-based radar for measuring snowfall rate. Houck, R.E., et al. [1995.eng] 50-3109
- Hydrologic cycle parameterization for energy balance climate models. Chu, S.P., et al. [1995.eng] 50-587
- Ice sheet surface features between 80 and 90S, along 90W. Yoshikawa, K., [1995.eng] 50-4386
- INACH expedition to Patriot Hills, Nov-Dec. 1995. Casassa, G., [1996.spa] 50-5802
- Initial snow chemistry survey of the Mogollon Rim in Arizona. Barbaris, B., et al. [1996.eng] 50-6711
- Interannual climate variability and snowpack in the western United States. Cayan, D.R., [1996.eng] 50-5529
- Landscape damage by skiing at the Schausinsland in the Black Forest, Germany. Ries, J.B., [1996.eng] 50-4234
- Laws of distribution of the snow cover on the Greater Caucasus (Soviet Union). Gurtovaya, E.E., et al. [1965.eng] 50-3427
- Long-term snow variations at Nagaoka, Japan. Nakamura, T., et al. [1996.eng] 50-4898
- Maintenance of the last great ice sheets: a UGAMP GCM study. Hall, N.M.J., et al. [1996.eng] 50-5531
- Major characteristics of snow disaster in Nagqu area of Xizang. Feng, X.Z., et al. [1995.chi] 50-3977
- Means of snow melioration. Terpilovskii, E.I.U., et al. [1992.rus] 50-1926
- Meteorological events on the Italian Alps during the winter of 1993-94. Costantini, N., et al. [1994.ita] 50-1561
- Model of Greenland and antarctic ice sheet thickness variations. Verbitskii, M.I.A., et al. [1995.eng] 50-642
- Modeling and observational study of East Antarctic surface mass balance. Connolly, W.M., et al. [1996.eng] 50-3017

Snow acoustics

- Niwot Ridge snow fence experiment: biogeochemical response to changes in the seasonal snowpack. Brooks, P.D., et al. [1995,eng] 50-2421
- Record winter snowfall of 1994-95 in U.S. West. Graf, D., et al. [1996,eng] 50-4155
- Regional forecasting of cryogenic processes and ecology of the cryolithozone. Grechishchev, S.E., [1990,rus] 50-1598
- Regional snow and water balance models. Xu, C.Y., et al. [1996,eng] 50-5835
- Rowe Glacier—annual research report 1993. Scott, R.B., [1994,eng] 50-5547
- SNOTAMS: Advisories on airport snow and ice conditions. Hamm, J., [1996,eng] 50-3685
- Snow accumulation and transport dynamics on the Ross Ice Shelf. Braaten, D.A., [1994,eng] 50-2219
- Snow accumulation rate from synthesis of microwave and altimeter data. Davis, C.H., [1995,eng] 50-162
- Snow and avalanche. Annual report 1994-95. Colorado Avalanche Information Center, [1995,eng] 50-4308
- Snow cover distribution on a Wyoming glacier. Elder, K., [1995,eng] 50-2438
- Snow cover observations in the Buryat ASSR. Nefed'eva, E.A., [1965,eng] 50-3425
- Snow damage to spruce trees during a fertilization experiment. Valinger, E., et al. [1996,eng] 50-4330
- Snow hardness variations in Patriot Hills. Harada, K., et al. [1995,eng] 50-4387
- Snow records in Nagaoka, 1913-1992. [1993,eng] 50-488
- Snow stratigraphy and accumulation rate in the Lambert Glacier basin. Ren, J.W., et al. [1995,chi] 50-5640
- Snow studies inland. Schytt, V., [1958,eng] 50-6419
- Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-2461
- Snow-mass intercomparisons in the boreal forests. Foster, J., et al. [1996,eng] 50-5837
- Snowpack controls on soil nitrogen dynamics in the Colorado alpine. Brooks, P.D., et al. [1995,eng] 50-2420
- Spring snowpack anomaly patterns and winter climatic variability. British Columbia, Canada. Moore, R.D., et al. [1996,eng] 50-3492
- SSM/I time series observations of Great Lakes ice and snow. Philant, D., [1995,eng] 50-3107
- Study on the database system of accumulated snow. Lu, A.X., et al. [1995,chi] 50-3993
- Technique for high time resolution snowpack dating. Braaten, D.A., [1995,eng] 50-776
- Temporal characteristics of Pennsylvania snowfall, 1950-1951 through 1989-1990. Acker, J.C., et al. [1995,eng] 50-970
- Was it snowing snowballs? Bartlett, A.A., [1996,eng] 50-5941
- Wind slabs: new data. Duclos, A., [1995,fre] 50-2585
- Yukon Territory snow survey bulletin & water supply forecast: April 1, 1996. Canada. Indian and Northern Affairs. Water Resources Division, [1996,eng] 50-4294
- Snow acoustics**
- Acoustic detection of avalanches at the Sionne-Anzère site, Valais, Switzerland. Christin, V., et al. [1995,fre] 50-4680
- Propagation of sound above a finite layer of snow. Nicolas, J., et al. [1985,eng] 50-3699
- Seismic detection in classifying avalanches. Sabot, F., et al. [1995,fre] 50-4642
- Seismic detection of avalanches: concept and validation of a pre-operational system. Lepretre, B., et al. [1995,fre] 50-4650
- Snow air interface**
- Advective-diffusive heat transfer in snow. Albert, M.R., [1995,eng] 50-945
- Apparatus for in situ measurement of CO₂ diffusion coefficient of snowpack. Kominami, Y., et al. [1996,jpn] 50-4924
- Application of a heat balance method to long-term snowmelt runoff analysis. Kurashima, E., et al. [1996,jpn] 50-4927
- Asian summer monsoon sensitivity to Eurasian snow cover. Douville, H., et al. [1996,eng] 50-5863
- Atmospheric CO₂ variations inferred from antarctic ice composition. Etheridge, D.M., et al. [1996,eng] 50-3446
- Biomass burning signatures in Greenland snow and atmosphere. Dibb, J.E., et al. [1996,eng] 50-3152
- Can inorganic chemical species volatilize from snow. Cragin, J.H., et al. [1995,eng] 50-2393
- Chemical composition of snow between the Ronne Ice Shelf and the South Pole. Watanabe, O., et al. [1995,eng] 50-4388
- Climate and ice-snow cover. Peng, G.B., et al. [1992,chi] 50-1168
- Climate change and GCM simulation of water resources from mountain snowpack. McGinnis, D.L., [1994,eng] 50-6690
- Clouds and snowmelt on the North Slope of Alaska. Zhang, T., et al. [1996,eng] 50-5284
- CO₂ flux through a Wyoming seasonal snowpack: diffusional and pressure pumping effects. Massman, W., et al. [1995,eng] 50-2400
- Cold climate hydrometeorology. Upadhyay, D.S., [1995,eng] 50-5508
- Comparison between neural network and statistical snowfall prediction methods. McGinnis, D.L., [1994,eng] 50-4356
- Computer modeling of avalanche triggering by wind. Sivardière, F., et al. [1995,eng] 50-1064
- Contributions of snow and fog to Greenland ice sheet ionic variations. Bergin, M.H., et al. [1995,eng] 50-586
- Controls of canopy structure on snowmelt rates in the boreal forest. Metcalfe, R.A., et al. [1995,eng] 50-3130
- Deposition of semivolatile organic chemicals by snow. Franz, T.P., Jr., [1994,eng] 50-372

- Determination of snowmelt factor in the Himalayan region. Singh, P., et al. [1996,eng] 50-5705
- Determining past atmospheric HCl mixing ratios from ice core analyses. Domine, F., et al. [1995,eng] 50-1104
- Diel variations of H₂O₂ in Greenland: a discussion of the cause and effect relationship. Bales, R.C., et al. [1995,eng] 50-634
- Directional hemispheric reflectance as an indicator of snow cover stability. Sargent, C., et al. [1995,fre] 50-4685
- Distribution of hydrogen peroxide in surface snow over antarctic ice sheet. Kamiyama, K., et al. [1996,eng] 50-3452
- Effect of ENSO and Eurasian snow cover on the Asian summer monsoon. Li, C.F., [1994,eng] 50-681
- Effect of Eurasian snow cover on regional and global climate variations. Barnett, T.P., et al. [1993,eng] 50-6042
- Effects of roof size on snow loads. Irwin, P.A., et al. [1995,eng] 50-3010
- Energy balance of snow and partially snow covered areas in western Greenland. Harding, R.J., et al. [1995,eng] 50-5088
- Estimation of snowmelt volume using air temperature and wind speed. Hasebe, M., et al. [1995,eng] 50-1958
- Evolution of factors affecting gas transmissivity of snow in the boreal forest. Hardy, J.P., et al. [1995,eng] 50-2398
- Field observations of sun crust formation in Hokkaido, Japan. Ozeki, T., et al. [1996,eng] 50-5500
- For the control of blowing snow (1)—structure of blowing snow. Takeuchi, M., [1996,jpn] 50-4930
- Glacio-meteorological and isotopic studies along the EGIG line, central Greenland. Fischer, H., et al. [1995,eng] 50-1873
- Heat balance study of melting coefficient. Yamazaki, T., [1995,jpn] 50-1172
- Himalayan summer snow cover and withdrawal of the Indian summer monsoon. Dey, B., et al. [1985,eng] 50-4970
- How AgI aerosol dispersion may effect cloud seeding detection. Warburton, J.A., et al. [1995,eng] 50-347
- Hydrological modelling of watershed snowmelt runoff. Badhust, J.C., et al. [1996,eng] 50-3728
- Impact of climate change on snow conditions in the French Alps. Martin, E., et al. [1995,fre] 50-4693
- Infrared remote sensing of snow and quartz surfaces. Wald, A.E., [1994,eng] 50-692
- Interaction of katabatic winds and the formation of blue-ice areas in East Antarctica. Van den Broeke, M.R., et al. [1995,eng] 50-459
- Interannual climate variability and snowpack in the western United States. Cayan, D.R., [1996,eng] 50-5529
- Ionic constituents of surface snow samples, 1992-1993. Osada, K., et al. [1995,eng] 50-4389
- Mathematical model for calculating thermal conductivity of snow subject to metamorphism. Gavril'ev, R.L., [1996,eng] 50-6497
- Measurement of falling velocity of rimed snowflakes. Ishizaka, M., [1995,jpn] 50-1171
- Measurements of powder snow avalanche—nature. Nishimura, K., et al. [1995,eng] 50-1058
- Measurements of powder snow avalanches—laboratory. Keller, S., [1995,eng] 50-1059
- Measurements of upward turbulent ozone fluxes above a subalpine spruce-fir forest. Zeller, K., et al. [1996,eng] 50-5289
- Model for measuring PAH deposits on snow. Sharma, M., et al. [1995,eng] 50-3037
- Model of arctic radiation fog trace gas processing. Bergin, M.H., et al. [1996,eng] 50-5764
- Modeling of snow reflectance in the visible and near infrared. Leroux, C., et al. [1995,fre] 50-4672
- O₃ and NO₂ fluxes over snow measured by eddy correlation. Stocker, D.W., et al. [1995,eng] 50-2151
- On snow cover ablation. Hoffmann, G., [1964,eng] 50-5753
- Origin of present-day antarctic precipitation from surface snow deuterium excess data. Ciais, P., et al. [1995,eng] 50-636
- Ozone deposition in a snow-covered subalpine spruce-fir forest environment. Zeller, K., et al. [1995,eng] 50-2394
- Peroxide concentrations in the Dome Summit South ice core, Law Dome, Antarctica. van Ommen, T.D., et al. [1996,eng] 50-6327
- Physicochemical properties and partitioning of organochlorine compounds in air and water. Falconer, R.L.M., [1994,eng] 50-688
- Proceedings of the 52nd annual Eastern Snow Conference, Toronto, Ontario, June 7-8, 1995. Eastern Snow Conference, [1995,eng] 50-3104
- Profiles of particle characteristics in blowing snow. Naaim, M., et al. [1995,eng] 50-1062
- Propagation of sound above a finite layer of snow. Nicolas, J., et al. [1985,eng] 50-3699
- Radiation conditions on the Greenland ice sheet. Konzelmann, T., [1994,eng] 50-69
- Radiative characteristics in forest during snowmelt season. Nakabayashi, H., et al. [1996,jpn] 50-4936
- Radiative properties of snow for clear sky solar radiation. Choudhury, B.J., [1979,eng] 50-3955
- Radiometric data and modeled snowpack conditions for Dye 2, Greenland. Mote, T.L., et al. [1996,eng] 50-4961
- Recent air pollution variations inferred from Greenland ice sheet heavy metal concentrations. Candelone, J.P., et al. [1995,eng] 50-590
- Relationship between atmospheric composition and snow composition for HCl and HNO₃. Domine, F., et al. [1995,eng] 50-2392
- Relationship between snow cover boundary and air temperature. Kislov, A.V., [1994,eng] 50-6093

Snow composition

- Saharan dust recorded in Swiss alpine snow cover. Schwikowski, M., et al. [1995,eng] 50-778
- Scaling snowdrift development rate. Lever, J.H., et al. [1995,eng] 50-3114
- Scaling snowdrift development rate. Lever, J.H., et al. [1995,eng] 50-6047
- Seasonal variability in CO₂ transport through snow in a boreal forest. Winston, G.C., et al. [1995,eng] 50-2399
- Simulation of summer snowmelt on the Greenland ice sheet using a one-dimensional model. Rowe, C.M., et al. [1995,eng] 50-585
- Simulation of wet-snow accretion by axial growth on a transmission line conductor. Poots, G., et al. [1995,eng] 50-2349
- Snow cover and climate in Japan. Ishizaka, M., [1996,jpn] 50-6732
- Snow cover effect on the heat and water balance in northwestern China. Kondo, J., et al. [1996,jpn] 50-6729
- Snow cover in the Great Plains as an indicator of climate change. Hughes, M.G., [1994,eng] 50-679
- Snow evaporation from Spitzbergen tundra surfaces. Takeuchi, Y., et al. [1995,eng] 50-3250
- Snow surface energy exchanges and snowmelt at a continental alpine site. Cline, D., [1995,eng] 50-2408
- Snowfall distribution on the seaside of Hokkaido, Japan. Tachibana, Y., [1995,eng] 50-342
- Soil-to-snow movement of synthetic organic compounds in natural snowpack. Hogan, A., et al. [1995,eng] 50-2403
- Sources of acidity in fresh snowfall elemental concentrations. Baisden, W.T., et al. [1995,eng] 50-2126
- Spatial and temporal variability of North American snow cover, 1971-1992. Brown, R.D., [1995,eng] 50-3112
- Spatial distribution of snow chemical load at the tundra-taiga transition. Pomeroy, J.W., et al. [1995,eng] 50-2412
- Spring and summer radiation regime in artificially compacted snow. Nazarov, V.D., [1992,rus] 50-148
- Spring snowpack anomaly patterns and winter climatic variability. British Columbia, Canada. Moore, R.D., et al. [1996,eng] 50-3492
- Steady-state convection in porous media and snow metamorphism. Klever, N., [1984,ger] 50-3840
- Synoptic approach to forecasting lake-effect snowfall. Ellis, A.W., et al. [1996,eng] 50-6062
- Temperature regime of artificially compacted snow of the Molodzhnaya runway. Nazarov, V.D., [1992,rus] 50-147
- Turbulent transfer over an antarctic ice shelf. Vinje, T.E., [1969,eng] 50-3953
- Validation of climate model for snow cover variations. Douville, H., et al. [1995,eng] 50-2735
- Ventilation experiments in a seasonal snow cover. Albert, M.R., et al. [1995,eng] 50-2397
- Viscosity of fluidized snow. Nishimura, K., [1996,eng] 50-5465
- Water movement in wet snow. Gray, J.M.N.T., [1996,eng] 50-3727
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995,eng] 50-3127
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995,eng] 50-4610
- Winter methane dynamics in a temperate peatland. Melloh, R.A., et al. [1996,eng] 50-6052
- Snow collapse**
- See [also]: Snowquakes
- Snow compaction**
- Artificially compacted snow and temperature regime in a glacier active layer. Nazarov, V.D., [1992,rus] 50-149
- Compacted snow road. 1. Properties of snow. Eriksson, R., [1959,eng] 50-3853
- Compacted snow runway technology at McMurdo. Blaisdell, G.L., et al. [1995,eng] 50-1193
- Development of a small snow compressor and fracture strength of compacted snow columns. Miyazaki, N., et al. [1995,jpn] 50-989
- Formation of ice film at the surface of compacted snow on roads. Matsuzawa, M., et al. [1996,jpn] 50-3502
- Snow behaviour under compaction for the production of ice. Gaméda, S., et al. [1996,eng] 50-4047
- Snow composition**
- AC breakdown process of snow sample simulating capped snow on insulator strings. Higashiyama, Y., et al. [1996,eng] 50-5383
- Acid aerosols in rime on Kyushu, Japan. Nagafuchi, O., et al. [1995,eng] 50-4957
- Acid pollutants in air and precipitation/deposition at the Sudeten Mountains, Poland. Kmiec, G., et al. [1995,eng] 50-4954
- Acid precipitation in Hokkaido (Part 2). Tani, A., et al. [1995,jpn] 50-6739
- Apparatus for in situ measurement of CO₂ diffusion coefficient of snowpack. Kominami, Y., et al. [1996,jpn] 50-4924
- Atomic emission spectrometry of Greenland snow lead impurities. Kobiński, R., et al. [1995,eng] 50-4082
- Bacterial ecosystem dynamics in a high mountain lake. Alfreider, A., et al. [1996,eng] 50-5681
- Biomass burning signatures in Greenland snow and atmosphere. Dibb, J.E., et al. [1996,eng] 50-3152
- Bismuth in recent snow from central Greenland: preliminary results. Candelone, J.P., et al. [1995,eng] 50-779
- Can inorganic chemical species volatilize from snow. Cragin, J.H., et al. [1995,eng] 50-2393
- Cation trace analysis of snow and firn samples from high-alpine sites by ion chromatography. Döschner, A., et al. [1995,eng] 50-594

Snow compression

- Cations within glacier ice, snow and river water at Xidatan coal mine. Huang, C.L., et al. [1995,chi] 50-5641
- Century of accumulation and temperature changes in Dronning Maud Land, Antarctica. Isaksson, E., et al. [1996,eng] 50-4352
- Characteristics of water quality in a forest river during the snow melting period. Tachibana, H., et al. [1994,eng] 50-4222
- Chemical composition of acid snowfall in northern part of Hokkaido. Satoh, F., et al. [1996,jpn] 50-6727
- Chemical composition of snow between the Ronne Ice Shelf and the South Pole. Watanabe, O., et al. [1995,eng] 50-4388
- Chemistry of artificial snow and its influence on the germination of mountain flora. Jones, H.G., et al. [1995,eng] 50-2428
- Chemistry of meltwater from Mount Xixia Bangma. Zhang, S., et al. [1982,chi] 50-6601
- Comparison between capillary ion analysis and ion chromatography in ice and snow. Liu, L.B., et al. [1996,chi] 50-5680
- Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996,rus] 50-6382
- Consumption of nitrogen compound from snowpack by microbiological activity. Suzuki, K., et al. [1996,jpn] 50-6728
- Cosmic dust particles in ice and snow, and their origin. Wang, D.D., et al. [1995,eng] 50-3614
- Coupling PIXE and SEM/EDAX for characterizing atmospheric aerosols in ice-cores. Laj, P., et al. [1996,eng] 50-6324
- Deposition around a coal-fired power station during a winter-time precipitation event. Jylhä, K., [1995,eng] 50-4953
- Deposition of semivolatile organic chemicals by snow. Franz, T.P., Jr., [1994,eng] 50-3772
- Diel variations of H_2O_2 in Greenland: a discussion of the cause and effect relationship. Bales, R.C., et al. [1995,eng] 50-634
- Distribution of deuterium excess in surface snow of the antarctic ice sheet. Ren, J.W., et al. [1995,eng] 50-978
- Distribution of hydrogen peroxide in surface snow over antarctic ice sheet. Kamiyama, K., et al. [1996,eng] 50-3452
- Dry depositional loading of nitrogen to an alpine snowpack. Niwot Ridge, Colorado. Cress, R.G., et al. [1995,eng] 50-2396
- Effect of acid snow and acid rain on the soils and others in Niigata Prefecture. Taguchi, Y., et al. [1996,jpn] 50-5801
- Estimation of aerosol deposition to a snow surface. Sharma, M., et al. [1995,eng] 50-3011
- Evaluation of the changes in regional wintertime deposition in Finland during 1976-1993. Sovieri, J., et al. [1995,eng] 50-4956
- Flux and fluence of major solar proton events and their record in antarctic snow. Shea, M.A., et al. [1994,eng] 50-4622
- Forest fire records inferred from Greenland ice core chemistry. Legrand, M., et al. [1996,eng] 50-3447
- Glacier river water study in Austre Okstindbrein Basin. Theakstone, W.H., et al. [1994,eng] 50-5700
- High-resolution ammonium ice core record covering a complete glacial-interglacial cycle. Fuhrer, K., et al. [1996,eng] 50-3448
- Hydrochemical indicators of subglacial drainage system structure. Tranter, M., et al. [1996,eng] 50-6086
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995,eng] 50-3125
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995,eng] 50-6043
- Hydrochemical study of snow meltwater and snow cover. Suzuki, K., [1995,eng] 50-2404
- Hydrologic pathways in an alpine watershed. Mast, M.A., et al. [1995,eng] 50-2418
- Influence of the growth mechanisms of snow particles on their chemical composition. Takahashi, T., et al. [1996,eng] 50-5610
- Initial snow chemistry survey of the Mogollon Rim in Arizona. Barbaris, B., et al. [1996,eng] 50-6711
- Ion chemistry controls for a Chinese river. Williams, M.W., et al. [1995,eng] 50-2604
- Ionic constituents of surface snow samples, 1992-1993. Osada, K., et al. [1995,eng] 50-4389
- Isotope analysis of variable subarctic plant nutrient access. Michelsen, A., et al. [1996,eng] 50-5772
- Isotopic analysis of snow on Asian glacier surfaces. Aizen, V.B., et al. [1996,eng] 50-5256
- Isotopic and ionic variations in glacier river water during three contrasting ablation seasons. Theakstone, W.H., et al. [1996,eng] 50-6085
- Isotopic tracing of nitrate sources in snowmelt runoff. Kendall, C., et al. [1995,eng] 50-2426
- Lead isotopic ratios in Greenland and antarctic snow and ice. Chisholm, W., et al. [1995,eng] 50-1256
- Leakage resistance of iced insulators and chemical data of ice and snow. Sugawara, N., et al. [1996,eng] 50-5384
- Manganese and other trace elements in urban snow near an expressway. Loranger, S., et al. [1996,eng] 50-5776
- Measurements of upward turbulent ozone fluxes above a subalpine spruce-fir forest. Zeller, K., et al. [1996,eng] 50-5289
- New radiochemical procedures for environmental actinide measurements and data quality control. Testa, C., et al. [1995,eng] 50-2344
- Nitrate transport in snowmelt in the Green Mountains, northern Vermont. Daly, D.M., [1995,eng] 50-3128
- Nutrients in the Aral Sea in winter. Tsytsarin, A.G., [1995,eng] 50-5481
- Organic carbon variations in stream waters during snowmelt. Boyer, E.W., et al. [1995,eng] 50-2422

- Origin of present-day antarctic precipitation from surface snow deuterium excess data. Ciais, P., et al. [1995,eng] 50-636
- Ozone deposition in a snow-covered subalpine spruce-fir forest environment. Zeller, K., et al. [1995,eng] 50-2394
- Peroxide concentrations in the Dome Summit South ice core, Law Dome, Antarctica. van Ommen, T.D., et al. [1996,eng] 50-6327
- Proceedings of the 52nd annual Eastern Snow Conference, Toronto, Ontario, June 7-8, 1995. Eastern Snow Conference, [1995,eng] 50-3104
- Processes controlling the chemistry of two snowmelt-dominated streams in the Rocky Mountains. Campbell, D.H., et al. [1995,eng] 50-2545
- Recent air pollution variations inferred from Greenland ice sheet heavy metal concentrations. Candelone, J.P., et al. [1995,eng] 50-590
- Reflection of weather conditions in the chemistry of horizontal fog/cloud precipitation. Škvarčina, J., et al. [1991,eng] 50-3522
- Relation of snowpack chemistry to streamwater composition. Shanley, J.B., et al. [1995,eng] 50-2425
- Relationship between atmospheric composition and snow composition for HCl and HNO₃. Domine, F., et al. [1995,eng] 50-2392
- Release of major ions and hydrogen peroxide from homogeneous, melting snow. Herrmann, R., et al. [1995,eng] 50-4014
- Simple model to estimate atmospheric concentrations of aerosol chemical species based on snow core chemistry at Summit, Greenland. Bergin, M.H., et al. [1995,eng] 50-3097
- Snow algae microbiology related to ultraviolet radiation effects. Thomas, W.H., et al. [1995,eng] 50-2814
- Snowmelt water resources from aquifers. Kimura, S., [1988,jpn] 50-2285
- Snowpack evidence of air pollution in Lapland and the Kola Peninsula. Lindroos, A.J., et al. [1995,eng] 50-4955
- Soil-to-snow movement of synthetic organic compounds in natural snowpack. Hogan, A., et al. [1995,eng] 50-2403
- Some surveys of snow chemistry in the Tien Shan of Kirghizstan and Kazakhstan. Kattelmann, R., et al. [1995,eng] 50-2411
- Spatial distribution of snow chemical load at the tundra-taiga transition. Pomeroy, J.W., et al. [1995,eng] 50-2412
- Spectrometric detection of chloride ions in snow. Vanchikova, E.V., et al. [1995,eng] 50-3791
- Stream flow hydrographic separation during watershed snowmelt. Sucker, J.K., [1995,eng] 50-2419
- Study on the actual conditions of acid snow in Hokuriku District. Yoshikawa, S., [1992,jpn] 50-3133
- Subglacial chemical erosion in a Swiss mountain glacier. Brown, G.H., et al. [1996,eng] 50-6236
- Surface water chemistry and hydrology of a small arctic drainage basin. Everett, K.R., et al. [1996,eng] 50-4847
- Technique for high time resolution snowpack dating. Braaten, D.A., [1995,eng] 50-776
- Two-year record of eolian sedimentation in the Wind River Range, Wyoming, U.S.A. Dahms, D.E., et al. [1996,eng] 50-5496
- Weathering of aeolian dusts in alpine snows. Delmas, V., et al. [1996,eng] 50-4588
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995,eng] 50-3127
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995,eng] 50-4610
- Snow compression**
- Bubble formation experiments in snow densification. Ishii, S., et al. [1995,eng] 50-3248
- Device for snow retention. Khuzin, V.Kh., [1992,rus] 50-1927
- Large strain finite-element analysis of snow. Meschke, G., et al. [1996,eng] 50-5923
- On the volume-viscous behavior of snow. Mahrenholtz, O., et al. [1995,eng] 50-2950
- Snow courses**
- Interannual climate variability and snowpack in the western United States. Cayan, D.R., [1996,eng] 50-5529
- Snow surveying in Canada: a perspective. Goodison, B.E., et al. [1987,eng] 50-4907
- Spring snowpack anomaly patterns and winter climatic variability. British Columbia, Canada. Moore, R.D., et al. [1996,eng] 50-3492
- Techniques and equipment for measurement of snowcover, including stratigraphy. Adams, W.P., et al. [1974,eng] 50-3242
- Yukon Territory snow survey bulletin & water supply forecast: April 1, 1996. Canada. Indian and Northern Affairs. Water Resources Division, [1996,eng] 50-4294
- Snow cover**
- Analysis of observations of snow cover in the Western Caucasus Mountains. Pogorelov, A.V., et al. [1991,rus] 50-1
- Bismuth in recent snow from central Greenland: preliminary results. Candelone, J.P., et al. [1995,eng] 50-779
- Carbon and water in polar lichens. Kappen, L., et al. [1995,eng] 50-3782
- Characteristics of the geocryological conditions in shallow water areas in the cryolithozone. Buldovich, S.N., [1996,rus] 50-6389
- Characteristics of the spatial variability in the pollution of snow cover. Adamenko, V.N., et al. [1992,rus] 50-384
- Climate change impact on hydrology and cryology. Selthun, N.R., [1995,eng] 50-1005

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- Climate change impacts on snow cover: modelling case studies in Switzerland and the French Western Alps. Baumgartner, M.F., et al. [1995,eng] 50-1013
- Comments on paper by González Suárez et al. Frochoso, M., et al. [1995,eng] 50-463
- Covering. Kreiman, A.B., [1982,rus] 50-2054
- Device for clearing a soil surface of snow cover. Goriaev, V.E., et al. [1982,rus] 50-1657
- Device for clearing a soil surface of snow cover. Goriaev, V.E., et al. [1982,rus] 50-1656
- Device for snow retention. Khuzin, V.Kh., [1992,rus] 50-1927
- Distribution of hydrogen peroxide in surface snow over antarctic ice sheet. Kamiyama, K., et al. [1996,eng] 50-3452
- Evaluation of winter vehicle traction with different types of tires. Lu, J.J., et al. [1995,eng] 50-5709
- Genotoxicity of snow in the Montreal metropolitan area. White, P.A., et al. [1995,eng] 50-1567
- Heat transfer in a snow cover. Zviagin, V.V., et al. [1990,rus] 50-1614
- Isotopic analysis of snow on Asian glacier surfaces. Aizen, V.B., et al. [1996,eng] 50-5256
- Migration of water vapor across the boundary between snow cover and frozen soil. Golubev, V.N., et al. [1995,rus] 50-4111
- Nutrient and persistent pollutant deposition on the Bothnian Bay ice and snow fields. Rahm, L., et al. [1995,eng] 50-1650
- Observations in a typical glacial basin of the Bol'shaya Khadata River in 1970-71. Gus'kov, A.S., [1972,rus] 50-529
- Parameterization of surface albedo for sea ice and its snow cover. Barry, R.G., [1996,eng] 50-5014
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- Representation of the distribution of the snow cover on the surface of the Earth's dry land. Richter, G.D., et al. [1965,eng] 50-3426
- Satellite systems for hazard monitoring. Barrett, E.C., et al. [1992,eng] 50-619
- Satellites for monitoring climate change. Kelkar, R.R., [1994,eng] 50-4826
- Snow cover in the Siberian forest-steppe. Zikov, I.V., [1965,eng] 50-3424
- Snow cover on winter sea ice of Amundsen and Ross seas. Sturm, M., et al. [1995,eng] 50-6505
- Snowbed bryophyte tissue composition related to air pollution. Woolgrove, C.E., et al. [1996,eng] 50-4004
- Special problems of the precipitation conditions evaluation in mountainous areas of Slovakia. Lapin, M., et al. [1991,eng] 50-3520
- Statistical structure of the snow cover field in the Western Caucasus Mountains. Pogorelov, A.V., [1991,rus] 50-2
- Synoptic look at research on snow topics. Toupin, J., [1994,fre] 50-5026
- System for recovery of oil from snow and ice surfaces. Aiken, L.B., [1995,eng] 50-3473
- Testing of radome material and special coatings for North Warning System. Crory, F.E., [1988,eng] 50-761
- Ventilation experiments in a seasonal snow cover. Albert, M.R., et al. [1995,eng] 50-2397
- Waveform model for surface and volume scattering from ice and snow. Newkirk, M.H., et al. [1996,eng] 50-3886
- Winter investigations in the Ross, Amundsen and Bellingshausen seas, 1993-1995. Jaña Obregón, R., et al. [1995,spa] 50-2583
- Snow cover distribution**
- AFGWC snow analysis model. Hall, S.J., [1986,eng] 50-2469
- Air Force Global Weather Central Surface Temperature model. Kopp, T.J., [1995,eng] 50-3300
- Algorithm for radiometric image mapping of global snow cover. Hall, D.K., et al. [1995,eng] 50-1809
- Application of DTM to extraction of snowcover information from NOAA/AVHRR image. Feng, X.Z., et al. [1995,chi] 50-3983
- Application of passive microwave retrieval algorithms to monitor global snow cover. Armstrong, R.L., et al. [1992,eng] 50-3562
- Application of SSM/I data for snow cover and climate research. Armstrong, R.L., [1995,eng] 50-4178
- Application of subspace method in snow recognition. Liu, Z.K., et al. [1990,chi] 50-6659
- Assessing the hazard of too much or too little snow in the pastoral regions of China. Gu, Z.W., et al. [1995,chi] 50-3976
- Background database of snow disaster in Nagqu area of Xizang. Sun, W.X., et al. [1995,chi] 50-3979
- Canadian development and use of snow cover information from passive microwave satellite data. Goodison, B.E., et al. [1995,eng] 50-4177
- Characteristics of the snow cover of the eastern Pyrenees. Péjouan, H., [1995,fre] 50-2592
- Characterizing multitemporal alpine snowmelt patterns for ecological inferences. Allen, T.R., et al. [1993,eng] 50-1447
- Climate and ice-snow cover. Peng, G.B., et al. [1992,chi] 50-1168
- Climatic division of snow cover environments in Japan using the mesh climatic data. Ishizaka, M., [1995,jpn] 50-997
- Comments on paper by Dey et al. Ropelewski, C.F., et al. [1984,eng] 50-4916
- Comparison between neural network and statistical snowfall prediction methods. McGinnis, D.L., [1994,eng] 50-4356
- Comparison between snow cover products derived from visible and microwave satellite observations. Basist, A., et al. [1996,eng] 50-3007

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- Comparison of geostatistical methodologies used to estimate snow water equivalent. Carroll, S.S., et al. [1996,eng] 50-4409
- Correlation between atmospheric pressure anomalies and snow-pack accumulation. McCabe, G.J., Jr., et al. [1995,eng] 50-1551
- Cryospheric indices of global change. Barry, R.G., et al. [1994,eng] 50-4789
- Cryospheric observing systems and data management. Barry, R.G., [1994,eng] 50-3415
- Current conditions and countermeasures in the snow belt. [1985,jpn] 50-2036
- Current conditions and countermeasures in the snow belt. [1988,jpn] 50-2037
- Current conditions and countermeasures in the snow belt. [1991,jpn] 50-2038
- DEM corrected ERS-1 SAR data for snow monitoring in alpine regions. Guneriusson, T., et al. [1995,eng] 50-3716
- DEM corrected ERS-1 SAR data for snow monitoring. Guneriusson, T., et al. [1996,eng] 50-3149
- Detecting and monitoring snow cover variability. Barry, R.G., et al. [1995,eng] 50-3314
- Determination of snowcovered area by satellite SAR imagery. Seglenieks, F., et al. [1995,eng] 50-3106
- Development of field technology and methods for forecasting snowfall and snow cover. [1989,jpn] 50-2041
- Differences in the duration of snow cover on Scottish ski-slopes between mild and cold winters. Harrison, S.J., [1993,eng] 50-3014
- Digital terrain information and its application in Nagqu area of Xizang. Lu, A.X., et al. [1995,chi] 50-3985
- Distributed snow process modeling: an image processing approach. Davis, R.E., et al. [1995,eng] 50-3108
- Distributed snow process modeling: an image processing approach. Davis, R.E., et al. [1995,eng] 50-2462
- Distributed snowmelt modeling using a clustering algorithm. Harrington, R.F., et al. [1995,eng] 50-2409
- Distribution of snow cover in built-up areas (e.g., Labyntang). Lukichev, V.F., [1985,rus] 50-250
- Dynamic monitoring information system for snow of remote sensing imagery. Liu, Z.K., et al. [1990,chi] 50-6657
- Dynamic research by remote sensing on typical region in the Yellow River Valley. Tian, G.L., ed. [1990,chi] 50-6649
- Earth-gridded SSM/I data set for cryospheric studies and global change monitoring. Armstrong, R.L., et al. [1995,eng] 50-1963
- Effect of ENSO and Eurasian snow cover on the Asian summer monsoon. Li, C.F., [1994,eng] 50-681
- Effect of Eurasian snow cover on regional and global climate variations. Barnett, T.P., et al. [1993,eng] 50-6042
- Effects of avalanche snow redistribution on summer streamflow variations. De Sclay, F.A., [1996,eng] 50-4333
- Eight-year time series radiometric measurement of snow and sea ice covers. Ferraro, R.R., et al. [1996,eng] 50-5769
- Empirical study on Nimbus-7 snow mass and Indian summer monsoon rainfall. Kripalani, R.H., et al. [1996,eng] 50-6226
- Establishment and application of DTM of the Qinghai-Xizang Plateau. Li, X., et al. [1995,chi] 50-3994
- Evaluating snow cover depth in a mountain basin from satellite information. Pichugina, E.L., et al. [1991,rus] 50-4
- Field observations of microwave backscatter from Weddell Sea ice. Lytle, V.L., et al. [1996,eng] 50-3148
- Forecast of spring snowmelt runoff in the upper Yellow River. Lan, Y.C., et al. [1990,chi] 50-6652
- Fuzzy region segmentation of snow remote sensing imagery. Liu, Z.K., et al. [1990,chi] 50-6660
- Global identification of snowcover using SSM/I measurements. Grody, N.C., et al. [1996,eng] 50-2704
- High-altitude distribution of the seasonal snow line in a mountain river basin. Tursunov, U.O., [1991,rus] 50-5
- Himalayan summer snow cover and withdrawal of the Indian summer monsoon. Dey, B., et al. [1985,eng] 50-4970
- Horizontal distribution of snowfall inland on Hokkaido. Lee, C.W., et al. [1972,jpn] 50-5791
- House construction in deep snow regions. Ujie, T., [1988,jpn] 50-2052
- Hydrological bibliography of Switzerland for 1992. Sevruck, B., et al. [1992,ger] 50-5028
- Impact of climate change on snow conditions in the French Alps. Martin, E., et al. [1995,fre] 50-4693
- Improved fuzzy clustering algorithm for snow recognition. Liu, Z.K., et al. [1990,chi] 50-6658
- Information system for snowmelt runoff in Qinghai Province. Feng, X.Z., et al. [1990,chi] 50-6655
- Instructions for meteorological stations and posts. Vol.3, pt.1. Meteorological observations at stations. USSR State Committee on Hydrometeorology and Environmental Control, [1985,eng] 50-5074
- Intercomparison of snow retrieval algorithms by means of spaceborne microwave radiometry. Rott, H., et al. [1995,eng] 50-4176
- ISWRS information system for runoff forecasting of the upper Yellow River. Wang, J., et al. [1990,chi] 50-6656
- Land surface studies and atmospheric effects by satellite microwave radiometry. Aschbacher, J., [1990,eng] 50-6691
- LANDSAT automated mapping of mountain snow cover. Rosenthal, W., et al. [1996,eng] 50-3312
- Laws of distribution of the snow cover on the Greater Caucasus (Soviet Union). Guriovaia, E.E., et al. [1965,eng] 50-3427
- Long-term observations for monitoring of the cryosphere. Walsh, J.E., [1995,eng] 50-3350
- Major characteristics of snow disaster in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3977
- Mapping alpine snow and ice using Landsat TM and SAR imagery at Wapta icefield. Brugman, M.M., et al. [1996,eng] 50-5545
- Mapping snow cover during the BOREAS winter experiment. Hall, D.K., et al. [1995,eng] 50-3105
- Meteorological observations at Showa Station by JARE-33 in 1992. Matsuhara, K., et al. [1995,jpn] 50-4554
- Microwave remote sensing of snow. Koike, T., et al. [1992,eng] 50-3028
- Model of predicting snow disaster using NOAA/AVHRR data in Nagqu area of Xizang. Lu, A.X., et al. [1995,chi] 50-3987
- Model of snow disaster assessment using NOAA/AVHRR data in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3988
- Monitoring snow cover on the Tibetan Plateau using passive microwave satellite data. Robinson, D.A., et al. [1995,eng] 50-4180
- NOAA satellite snow cover monitoring of the upper Yellow River. Chen, X.Z., et al. [1990,chi] 50-6653
- Output design of GIS production of snow disaster monitoring and assessment system. Li, X., et al. [1995,chi] 50-3990
- Passive microwave snow research in the Canadian High Arctic. Gan, T.Y., [1996,eng] 50-5540
- Permafrost along the Xining-Zhangye Highway. Wang, S.L., et al. [1995,chi] 50-5628
- Pixel-scale ground snow survey for passive microwave study of the arctic snow cover. Woo, M.K., et al. [1995,eng] 50-3110
- Problem of the climatic snow line. Lang, H., et al. [1973,ger] 50-3842
- Proceedings of the 52nd annual Eastern Snow Conference, Toronto, Ontario, June 7-8, 1995. Eastern Snow Conference, [1995,eng] 50-3104
- Processing satellite images to determine snow cover depth. Pichugina, E.L., [1991,rus] 50-3
- Radar survey of French Alps snow cover. Bernier, M., et al. [1996,fre] 50-5542
- Relation between the Asian monsoon, Asian snow coverage, and Okhotsk sea ice. Sekine, Y., et al. [1996,eng] 50-5896
- Relationship between snow cover boundary and air temperature. Kislov, A.V., [1994,eng] 50-6093
- Remote sensing in hydrology and water management. Haefner, H., et al. [1992,eng] 50-621
- Representation of the distribution of the snow cover on the surface of the Earth's dry land. Richter, G.D., et al. [1965,eng] 50-3426
- Role of January in the character of recent winters in the United States. Diaz, H.F., [1984,eng] 50-4914
- Satellite snow monitoring and runoff forecasting for the Yellow River. Zeng, Q.Z., [1990,chi] 50-6650
- Significance of social trends and snow cover. Oishi, T., [1988,jpn] 50-2050
- Simulation of climatic model of global snow cover evolution. Douville, H., et al. [1995,eng] 50-2736
- Small basin modeling of snow water equivalence using binary regression tree methods. Elder, K., et al. [1995,eng] 50-2406
- Snow accumulation and transport dynamics on the Ross Ice Shelf. Braaten, D.A., [1994,eng] 50-2219
- Snow and living conditions. Yoshino, M., ed. [1988,jpn] 50-2043
- Snow cover and climate in Japan. Ishizaka, M., [1996,jpn] 50-6732
- Snow cover and microrelief. Fukuoka, Y., [1988,jpn] 50-2046
- Snow cover in the Great Plains as an indicator of climate change. Hughes, M.G., [1994,eng] 50-679
- Snow cover in the mountainous regions. Yoshida, Y., [1988,jpn] 50-2048
- Snow cover in the Siberian forest-steppe. Zykov, I.V., [1965,eng] 50-3424
- Snow cover observations in the Buryat ASSR. Nefed'eva, E.A., [1965,eng] 50-3425
- Snow cover variations in a field catchment area. Shutoy, V.A., [1995,eng] 50-2729
- Snow cover. Colbeck, S.C., [1996,eng] 50-4615
- Snow distribution in Japan. Shitara, H., [1988,jpn] 50-2045
- Snow hazard information system in Slovenia. Horvat, A., [1995,eng] 50-4653
- Snow in the Chilean Andes and its natural hazards. Ugarte G., G., [1995,fre] 50-4690
- Snow in the Spanish Cordilleras. ERHIN Program. 1991/92. [1995,spa] 50-1691
- Snow monitoring from satellite data in Xizang. Feng, X.Z., et al. [1995,chi] 50-3986
- Snow monitoring in the United Kingdom using NOAA AVHRR imagery. Lucas, R.M., et al. [1994,eng] 50-167
- Snow surveying in Canada: a perspective. Goodison, B.E., et al. [1987,eng] 50-4907
- Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-2461
- Snow-mass intercomparisons in the boreal forests. Foster, J., et al. [1996,eng] 50-5837
- Snow-vegetation relations in the forest tundra of New Quebec. Hudson Bay. Payette, S., et al. [1973,fre] 50-2852
- Spatial analysis operation of background database of snow disaster. Sun, W.X., et al. [1995,chi] 50-3980
- Spatial and temporal variability of North American snow cover, 1971-1992. Brown, R.D., [1995,eng] 50-3112
- SSM/I mapped experimental environmental image products. Donahue, D.R., et al. [1992,eng] 50-3567
- Studies on prediction method of snowmelt runoff in the upper reaches of the Yellow River. Song, Q., [1990,chi] 50-6654
- Studies on the method of image processing and analysis of lake ice and snow. Li, W.J., et al. [1995,chi] 50-3995
- Studies on the methods of extracting snow information from NOAA/AVHRR image. Li, W.J., et al. [1995,chi] 50-3982
- Study of extracting remote sensing information of snow disaster in Nagqu area of Xizang. Li, Z., et al. [1995,chi] 50-3981
- Study of heavy snowfall in Tohoku District. [1989,jpn] 50-2040
- Study on estimating snow cover. [1983,jpn] 50-2042
- Study on snow disaster monitoring using remote sensing in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3978
- Study on the database system of accumulated snow. Lu, A.X., et al. [1995,chi] 50-3993
- Swedish Forest Information Atlas. Rosengren, M., et al. [1992,eng] 50-623
- Synthetic analysis method of snow depth in Nagqu area of Xizang. Zeng, Q.Z., et al. [1995,chi] 50-3984
- Terrestrial component of the cryosphere. Melnikov, P.A., et al. [1993,eng] 50-5483
- Topographical influence on Himalayan snow cover distribution. Singh, P., et al. [1995,eng] 50-4012
- Trends of the times related to snow. Yagasaki, T., [1988,jpn] 50-2049
- Tuckerman Ravine snowbed. Havens, J.M., [1961,eng] 50-5785
- Use of a GIS to develop a stratified snow survey in a mountainous agricultural landscape. Pierson, D., et al. [1995,eng] 50-3111
- Use of remotely sensed data in the hydrological modelling of the upper Columbia watershed. Kite, G.W., [1996,eng] 50-5538
- Use of satellite data for river basin snow cover surveys. Krishna, A.P., [1996,eng] 50-4015
- Validation of climate model for snow cover variations. Douville, H., et al. [1995,eng] 50-2735
- Winter of 1994-95 in France. Météo-France, [1995,fre] 50-2588
- Winter-spring snow cover distribution in the upper Yellow River. Chen, X.Z., et al. [1990,chi] 50-6651
- Snow cover effect**
- 1990 arctic sea ice reduction related to snow cover minima. Serreze, M.C., et al. [1995,eng] 50-773
- A hydrochemical model for seasonally snow-covered alpine watersheds. Wolford, R.A., et al. [1996,eng] 50-4237
- Active layer changes following forest tundra fire. Mackay, J.R., [1995,eng] 50-2807
- Active layer moisture migration in Alaskan soils. Outcalt, S.I., et al. [1996,eng] 50-4631
- Albedo of forest with crown snow. Yamazaki, T., et al. [1996,jpn] 50-3501
- Apparatus for in situ measurement of CO₂ diffusion coefficient of snowpack. Kominami, Y., et al. [1996,jpn] 50-4924
- Asian summer monsoon sensitivity to Eurasian snow cover. Douville, H., et al. [1996,eng] 50-5863
- Assessing the hazard of too much or too little snow in the pastoral regions of China. Gu, Z.W., et al. [1995,chi] 50-3976
- Assessment of global climate model simulations of arctic air temperatures. Tao, X., et al. [1996,eng] 50-5532
- Background classification for infrared seekers. Berger, R.H., [1991,eng] 50-765
- Bacterial ecosystem dynamics in a high mountain lake. Alfreider, A., et al. [1996,eng] 50-5681
- Basic study of pyroclastic flow on a snow-covered slope. Miura, A., et al. [1994,jpn] 50-2836
- Basic study on volcanic debris flows over snow slopes. Miura, A., et al. [1995,jpn] 50-6736
- C-band backscatter measurements of winter sea-ice in the Weddell Sea, Antarctica. Drinkwater, M.R., et al. [1995,eng] 50-1817
- Calculating the frequency of avalanche hazard situations. Kolesnikov, E.I., et al. [1991,rus] 50-8
- Characteristics of the seasonal freezing of rocks in the Tien Shan. Severskii, E.V., [1996,rus] 50-6368
- Characterizing multitemporal alpine snowmelt patterns for ecological inferences. Allen, T.R., et al. [1993,eng] 50-1447
- Chlorophyll distribution in a body of fresh water covered with ice. Zavoruev, V.V., et al. [1996,eng] 50-5816
- Climate and ice-snow cover. Peng, G.B., et al. [1992,chi] 50-1168
- Climate, snow cover, glaciers, and runoff in the Tien Shan, central Asia. Aizen, V.B., et al. [1995,eng] 50-2538
- Climatic controls on rates of solifluction: variations within Europe. Matthews, J.A., et al. [1993,eng] 50-849
- CO₂ flux through a Wyoming seasonal snowpack: diffusional and pressure pumping effects. Massman, W., et al. [1995,eng] 50-2400
- Cold-climate constructed wetlands. Møhlum, T., et al. [1995,eng] 50-6066
- Comparison of sensors and conditions at Smoke Week X and Smoke Week XI. Kennedy, B.W., et al. [1990,eng] 50-737
- Controls of canopy structure on snowmelt rates in the boreal forest. Metcalfe, R.A., et al. [1995,eng] 50-3130
- Deformation of frozen sandy soils with a cloddy structure during thawing. Shevchenko, L.V., et al. [1996,rus] 50-6832
- Deposition of semivolatile organic chemicals by snow. Franz, T.P., Jr., [1994,eng] 50-372
- Depth hoar influence on permafrost thermal regime. Zhang, T., et al. [1996,eng] 50-6585

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- Disposition of solar radiation in sea ice and the upper ocean. Ebert, E.E., et al. [1995,eng] 50-572
- Dynamics of heat exchange between sediment and water in a lake. Fang, X., et al. [1996,eng] 50-5970
- Ecophysiology of a snow-bed moss during snowmelt. Woolgrove, C.E., et al. [1996,eng] 50-6748
- Effect of ENSO and Eurasian snow cover on the Asian summer monsoon. Li, C.F. [1994,eng] 50-681
- Effect of Eurasian snow cover on regional and global climate variations. Barnett, T.P., et al. [1993,eng] 50-6042
- Effect of frozen ground strength on hardening performance of the Hard Mobile Launcher. Chamberlain, E.J., et al. [1989,eng] 50-3042
- Effect of introduced disturbances on the development of thermoserosional processes. Glavatskikh, V.V., et al. [1996,rus] 50-6404
- Effect of sea ice surface features on radar backscatter. Ulander, L.M.H., et al. [1995,eng] 50-1813
- Effect of snow cover anomaly on global climate. Krenke, A.N., et al. [1995,rus] 50-3969
- Effect of soil-ground and surface conditions on the insulating properties of snow cover. Konstantinov, P.A., [1996,rus] 50-6393
- Effects of forest clearcutting on snow hydrology. Meng, F.R., et al. [1995,eng] 50-768
- Effects of roof size on snow loads. Irwin, P.A., et al. [1995,eng] 50-3010
- Empirical study on Nimbus-7 snow mass and Indian summer monsoon rainfall. Kripalani, R.H., et al. [1996,eng] 50-6226
- Energy balance and hydrological processes in an arctic watershed. Hinzman, L.D., et al. [1996,eng] 50-4844
- Energy balance of snow and partially snow covered areas in western Greenland. Harding, R.J., et al. [1995,eng] 50-5088
- Energy-balance model of lake-ice evolution. Liston, G.E., et al. [1995,eng] 50-457
- Environmentally caused variation in exterior intrusion detection. Peck, L., [1995,eng] 50-888
- Estimating sea ice thickness from impulse radar sounding time of flight data. Kovacs, A., et al. [1992,eng] 50-61
- Estimating snowmelt runoff erosion indices for Canada. Hayhoe, H.N., et al. [1995,eng] 50-967
- Estimating soil temperatures and frost in the lake effect snowbelt region, Michigan, USA. Isard, S.A., et al. [1995,eng] 50-1140
- Estimation of surface albedo from NOAA AVHRR data in high latitudes. Laine, V., et al. [1996,eng] 50-5870
- Evidence of arctic-wide atmospheric aerosols from DMSP visible imagery. Shine, K.P., et al. [1984,eng] 50-4494
- Exploring the behaviour of microwaves in a snowpack using modelling techniques. Lecoate, R., [1996,eng] 50-5539
- Flame spread over fuel-spilled and/or snow-covered asphalt road. Ishida, H., et al. [1996,eng] 50-4230
- Flow and freezing boundary conditions for snow-melt infiltration into a frozen soil. Tao, Y.X., et al. [1993,eng] 50-4550
- Forest damage mapping with multitemporal ERS-1 SAR data. Rauste, Y. [1994,eng] 50-3229
- Formation characteristics of the thermal regime of rocks in the Vium River. Leibman, M.O., [1985,rus] 50-248
- Glacier river water study in Austre Okstindbreen Basin. Theakstone, W.H., et al. [1994,eng] 50-5700
- Heat flux through Weddell Sea ice cover. Lytle, V.I., et al. [1996,eng] 50-5263
- Herb reproductive timing in relation to snow conditions. Morton, M.L., [1994,eng] 50-1542
- Himalayan summer snow cover and withdrawal of the Indian summer monsoon. Dey, B., et al. [1985,eng] 50-4970
- How to make a palsa: a field experiment on permafrost formation. Seppälä, M., [1995,eng] 50-874
- Hydrologic role of soils and ecological methods of regulating water resources. Voronkov, N.A., [1995,eng] 50-3879
- Hydrological processes contributing to nitrogen leaching. Lepistö, A., [1996,eng] 50-5599
- Impacts of increased winter snow cover on upland tundra vegetation: a case example. Scott, P.A., et al. [1995,eng] 50-3848
- Individual-based model of alpine plant distributions. Humphries, H.C., et al. [1996,eng] 50-3151
- Infiltration of snowmelt and heat transfer into frozen soil. Zhao, L.T., et al. [1996,eng] 50-6480
- Influence of a structure of snow pack on biosystems in regions of severe climate. Golubev, V.N., et al. [1996,eng] 50-6437
- Integrated approach to modelling hydrology and water quality in glacierized catchments. Richards, K.S., et al. [1996,eng] 50-6083
- Isotopic tracing of nitrate sources in snowmelt runoff. Kendall, C., et al. [1995,eng] 50-2426
- Land surface studies and atmospheric effects by satellite microwave radiometry. Aschbacher, J., [1990,eng] 50-6691
- Landscape damage by skiing at the Schainzland in the Black Forest, Germany. Ries, J.B., [1996,eng] 50-4234
- Lichens of alpine meadows on the Beartooth Plateau, Montana and Wyoming. U.S.A. Eversman, S., [1995,eng] 50-2815
- Little Ice Age temperature estimated by arctic heather growth variations. Havström, M., et al. [1995,eng] 50-1121
- Major characteristics of snow disaster in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3977
- Meadow ecology in the polar Urals, Russia. Gorchakovskii, P.L., et al. [1996,eng] 50-5482
- Measurements of upward turbulent ozone fluxes above a subalpine spruce-fir forest. Zeller, K., et al. [1996,eng] 50-5289
- Mechanisms of direct and indirect climate forcing by aerosols in the arctic region. Blanchet, J.P., [1995,eng] 50-1642
- Microclimate of agricultural buildings—1. Bodrov, V.I., [1995,rus] 50-3442
- Millimetric radar backscatter from snowcover. Williams, L.D., et al. [1987,eng] 50-6200
- Model of effects of global warming of water balance of subarctic forest ecosystems. Kellomäki, S., et al. [1996,eng] 50-4750
- Model of Northern Hemisphere glaciation. Dong, B.W., et al. [1995,eng] 50-1328
- Modeling of snow reflectance in the visible and near infrared. Leroux, C., et al. [1995,fre] 50-4672
- Modeling the heating and melting of sea ice through light absorption by microalgae. Zeebe, R.E., et al. [1996,eng] 50-2844
- Modelling of permafrost depth in France during the last 120,000 years. Lebre, P., et al. [1996,fre] 50-4570
- Modelling vehicle mobility over multi-layered deep snowcover. Irwin, G.J., et al. [1995,eng] 50-50
- Mountain hemlock expansion in a subalpine ecosystem. Taylor, A.H., [1995,eng] 50-3321
- New formulation for the Bowen ratio over saturated surfaces. Andreas, E.L., et al. [1996,eng] 50-6570
- Nivation in the High Tatras, Poland. Rączkowska, Z., [1995,eng] 50-4193
- Niwot Ridge snow fence experiment: biogeochemical response to changes in the seasonal snowpack. Brooks, P.D., et al. [1995,eng] 50-2421
- Northern forest plants under the pressure of environmental changes. Laine, K., et al. [1994,eng] 50-3231
- O₃ and NO₂ fluxes over snow measured by eddy correlation. Stocker, D.W., et al. [1995,eng] 50-2151
- Ozone deposition in a snow-covered subalpine spruce-fir forest environment. Zeller, K., et al. [1995,eng] 50-2394
- Performance of lagoons experiencing seasonal ice cover. Price, D.S., et al. [1995,eng] 50-2124
- Permafrost distribution in the northern hemisphere under scenarios of climatic change. Anisimov, O.A., et al. [1996,eng] 50-6619
- Physical climatology of alpine tundra, Scout Mountain, British Columbia, Canada. Saunders, I.R., et al. [1996,eng] 50-4235
- Physically based model of the form drag associated with sstrugi. Andreas, E.L., [1995,eng] 50-237
- Polarimetric detection of objects buried in snowpack by a synthetic aperture FM-CW radar. Yamaguchi, Y., et al. [1996,eng] 50-2700
- Precision measurements and theoretical calculations for solar ultraviolet radiation. Jokela, K., et al. [1994,eng] 50-3190
- Precursory signals associated with the interannual variability of the Asian summer monsoon. Yang, S., et al. [1996,eng] 50-5530
- Proceedings of the 52nd annual Eastern Snow Conference, Toronto, Ontario, June 7-8, 1995. Eastern Snow Conference, [1995,eng] 50-3104
- Proceedings. International Symposium on Biogeochemistry of Seasonally Snow-covered Catchments, Boulder, CO, July 1-14, 1995. [1995,eng] 50-2391
- Propagation of sound above a finite layer of snow. Nicolas, J., et al. [1985,eng] 50-3699
- Protalus formation mechanisms in Norwegian sediments. Shakesby, R.A., et al. [1995,eng] 50-3328
- Radar survey of French Alps snow cover. Bernier, M., et al. [1996,fre] 50-5542
- Radiation conditions on the Greenland ice sheet. Konzelmann, T., [1994,eng] 50-469
- Radiative characteristics in forest during snowmelt season. Nakabayashi, H., et al. [1996,jpn] 50-4936
- Radiometer for the detection of avalanche victims. Šval, M., [1995,eng] 50-4692
- Recent advance of the arctic treeline along the eastern coast of Hudson Bay. Lescoep-Sinclair, K., et al. [1995,eng] 50-3041
- Reflection coefficient in microwave propagation over snow-covered terrain. Suzuki, M., [1996,eng] 50-3942
- Relation between scattering coefficient and radiation flux over land-fast sea ice. Barber, D.G., et al. [1995,eng] 50-1816
- Relation of snowpack chemistry to streamwater composition. Shanley, J.B., et al. [1995,eng] 50-2425
- Relationship between snow cover boundary and air temperature. Kislov, A.V., [1994,eng] 50-6093
- Remote sensing of East Greenland mafic intrusion lithology. Birnie, R.W., et al. [1989,eng] 50-3935
- Response of alpine vegetation canopy to experimental wind barrier. Smith, B., et al. [1996,eng] 50-3786
- Riding and strength in modeling the thickness distribution of arctic sea ice. Flato, G.M., et al. [1995,eng] 50-570
- Rock breakdown during spring thaw in Spitsbergen. Ødegård, R.S., et al. [1995,eng] 50-4831
- Role of January in the character of recent winters in the United States. Diaz, H.F., [1984,eng] 50-4914
- Satellite radar detection of Alaskan forest ecosystem types. Harrell, P.A., et al. [1995,eng] 50-3493
- Scaling of input data for macroscale hydrologic modeling. Kite, G.W., [1995,eng] 50-2544
- Search for proxy indicators of young sea ice thickness. Zabel, I.H.H., et al. [1996,eng] 50-4303
- Seasonal radar backscatter variation from boreal forests. Pulliainen, J.T., et al. [1996,eng] 50-4765
- Seasonal variability in CO₂ transport through snow in a boreal forest. Winston, G.C., et al. [1995,eng] 50-2399
- Seasonal variability in high mountain lake water chemistry. Wögrath, S., et al. [1995,eng] 50-4077
- Sensible heat flux measurements near a cold surface. Yen, Y.-C., [1995,eng] 50-879
- Simulation of climatic model of global snow cover evolution. Douville, H., et al. [1995,eng] 50-2736
- Simulation of summer snowmelt on the Greenland ice sheet using a one-dimensional model. Rowe, C.M., et al. [1995,eng] 50-585
- Snow and ice cover and climate sensitivity. Oerlemans, J., et al. [1995,eng] 50-3246
- Snow and sea ice correlation to Chinese summer air temperatures. Fu, C.B., [1983,eng] 50-4099
- Snow cover effect on the heat and water balance in northwestern China. Kondo, J., et al. [1996,jpn] 50-6729
- Snow cover. Colbeck, S.C., [1996,eng] 50-4615
- Snow damage to spruce trees during a fertilization experiment. Valinger, E., et al. [1996,eng] 50-4330
- Snow evaporation from Spitsbergen tundra surfaces. Takeuchi, Y., et al. [1995,eng] 50-3250
- Snow parameters for vehicle mobility modeling. Horrigan, T., et al. [1995,eng] 50-2708
- Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-3129
- Snow-vegetation relations in the forest tundra of New Quebec, Hudson Bay. Payette, S., et al. [1973,fre] 50-2852
- Snow. Colbeck, S.C., [1996,eng] 50-4614
- Snowmelt-induced earth and rock flows. Watanabe, N., et al. [1992,jpn] 50-3136
- Snowpack controls on soil nitrogen dynamics in the Colorado alpine. Brooks, P.D., et al. [1995,eng] 50-2420
- Snowpack influences on geomorphic processes in Green Lakes Valley, Colorado Front Range. Caine, N., [1995,eng] 50-1404
- Solifluction in the Arctic and subarctic during the Holocene. Van Vliet-Lanoë, B., [1993,eng] 50-844
- Solifluction in the Swedish mountains. Ulfstedt, A.C., [1993,eng] 50-840
- Some active and passive microwave signatures of antarctic sea ice from mid-winter to spring 1991. Gohin, F., [1995,eng] 50-161
- Spaceborne radar photography of subarctic landscapes. Vachon, P.W., et al. [1995,eng] 50-4091
- Spatial and temporal variability of North American snow cover, 1971-1992. Brown, R.D., [1995,eng] 50-3112
- Spatially distributed energy balance snowmelt model. Tarbotton, D.G., et al. [1995,eng] 50-2407
- Surface temperature from ERS-1 ATSR infrared thermal satellite data in polar regions. Stroeve, J., et al. [1996,eng] 50-6568
- Surface water chemistry and hydrology of a small arctic drainage basin. Everitt, K.R., et al. [1996,eng] 50-4847
- Surface water chemistry in alpine watersheds. Stottemyer, R., et al. [1995,eng] 50-2424
- Synoptic look at research on snow topics. Toupin, J., [1994,fre] 50-5026
- Temperature distribution in Collins Ice Cap. King George I. Haa, J.K., et al. [1995,eng] 50-3615
- Temporal evolution of under ice reflectivity. Laible, H.A., et al. [1996,eng] 50-4591
- Temporal redistribution of subalpine meadow trees. Rochefort, R.M., et al. [1996,eng] 50-4336
- Temporal weather impacts upon exterior intrusion detection systems. Ryerson, C.C., et al. [1995,eng] 50-4544
- Test of variant soil moisture conditions on the Canadian Global Forecast Model. Delage, Y., et al. [1995,eng] 50-1528
- Tests of electro-optic sensors in smoke and obscurants, Quebec, Feb.-Mar. 1989. Kennedy, B.W., et al. [1990,eng] 50-736
- Thermal environments of arctic soil organisms during winter. Coulson, S.J., et al. [1995,eng] 50-2811
- Towed geophone system for use in snow-covered terrain. King, E.C., et al. [1996,eng] 50-6225
- Traction and hardening tests of mobile missile launcher over frozen ground. Chamberlain, E.J., et al. [1988,eng] 50-2524
- Understanding the impact of climate change on mountain ecosystems: an overview. Guisan, A., et al. [1995,eng] 50-1003
- Upward flushing of sea water through first year sea ice. Hudier, E.J., et al. [1995,eng] 50-4210
- Validation of backscatter models for level and deformed sea-ice in ERS-1 SAR images. Carlström, A., et al. [1995,eng] 50-1811
- Water in lichens at subzero temperatures. Schroeter, B., et al. [1995,eng] 50-2842
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995,eng] 50-3127
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995,eng] 50-4610
- Winter surface energy budget in Denver, Colorado. Ruffieux, D., [1995,eng] 50-2152
- Snow cover stability**
- Acoustic detection of avalanches at the Sionne-Anzère site, Valais, Switzerland. Christin, V., et al. [1995,fre] 50-4680
- Automated measurements of snow temperature profiles in the Cairngorm mountains. Scotland. Purves, R.S., et al. [1995,eng] 50-2795
- Avalanche hazard forecasting at the department level: the example of Isère. Villocrosse, J., [1995,fre] 50-4664
- Avalanche prediction for persistent snow slabs. Jamieson, J.B., [1995,eng] 50-3707
- Avalanches. Armstrong, R.L., [1996,eng] 50-4978
- Basic study on volcanic debris flows over snow slopes. Miura, A., et al. [1995,jpn] 50-6736

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- Calculating the frequency of avalanche hazard situations. Kolesnikov, E.I., et al. [1991.rus] 50-8
- Can inorganic chemical species volatilize from snow. Cragin, J.H., et al. [1995.eng] 50-2393
- Climate change and snow-cover duration in the Australian Alps. Whetton, P.H., et al. [1996.eng] 50-4751
- CO₂ flux through a Wyoming seasonal snowpack: diffusional and pressure pumping effects. Massman, W., et al. [1995.eng] 50-2400
- Colorado storm and avalanches of February 1995. McCarty, D., et al. [1995.eng] 50-1098
- Control of avalanche risk in the Braulio Valley. Campaña, M., et al. [1995.ita] 50-2600
- Determining the mechanical resistance of snow by the Pandalp penetrometer. Daudon, D., et al. [1995.fre] 50-4683
- Development and stability of preferential flow paths in a layered snowpack. Schneebeli, M., [1995.eng] 50-2402
- Directional hemispheric reflectance as an indicator of snow cover stability. Sergent, C., et al. [1995.fre] 50-4685
- Effects of temperature and density on snow cover stability of the Molodzhnaya runway. Nazarov, V.D., [1992.rus] 50-146
- Effects of temperature on fracture of dry alpine snow. McClung, D.M., [1995.eng] 50-4688
- Evolution of factors affecting gas transmissivity of snow in the boreal forest. Hardy, J.P., et al. [1995.eng] 50-2398
- Evolution of snow cover and avalanche activity in the Italian Alps during winter 1993-94. Lizzero, L., et al. [1994.ita] 50-1562
- Field experiments on snow avalanche mechanics. Schweizer, J., et al. [1995.eng] 50-1056
- Forecasting avalanche risks in France—assessment and perspective. Pahaut, E., et al. [1995.fre] 50-4873
- Formation and movement of avalanches. Moskalov, I.U.D., [1966.rus] 50-3833
- Glaciers, snow and ice—dictionary of glaciology, snow and avalanche research in Switzerland. Ziehr, W., ed. [1993.ger] 50-3385
- Guide to interpretation of Swiss avalanche bulletins. Meister, R., ed. [1993.fre] 50-5075
- Hydrochemical study of snow meltwater and snow cover. Suzuki, K., [1995.eng] 50-2404
- Impact of climate change on snow conditions in the French Alps. Martin, E., et al. [1995.fre] 50-4693
- Integrated system for artificial avalanche control. Gubler, H., [1995.eng] 50-4671
- International seminar on avalanche safety, Chamonix, France, 1995. Sivardière, F., ed. [1995.fre] 50-4640
- Ion flux through a shallow snowpack: effects of initial conditions and melt sequences. Davis, R.E., et al. [1995.eng] 50-2405
- Laws of distribution of the snow cover on the Greater Caucasus (Soviet Union). Gurtovaya, E.E., et al. [1965.eng] 50-3427
- Long range forecasting of avalanche regimes and some ecological changes on Zailiyskiy Alatau. Kondrashov, I.V., et al. [1991.rus] 50-9
- MEPRA and the risk of accidental release of avalanches. Giraud, G., et al. [1995.fre] 50-4662
- Meteorological and snow conditions, avalanches and safety in Bulgarian mountains. Mikhnevski, N., [1995.eng] 50-4665
- Methods for studying snow slabs from new data. Duclos, A., et al. [1995.fre] 50-4684
- Modeling of snow reflectance in the visible and near infrared. Leroux, C., et al. [1995.fre] 50-4672
- Multilingual vocabulary—snow and avalanches. International Mountain Rescue Commission, [1991.eng] 50-5292
- New approaches to numerical mapping of avalanches. Borrel, G., [1995.fre] 50-4675
- Numerical model of powder snow avalanche: theoretical analysis and application. Naaim, M., [1995.eng] 50-4644
- Observation guidelines and recording standards for weather, snowpack and avalanches. Canadian Avalanche Association, Revelstoke, British Columbia, [1995.eng] 50-852
- Prediction of slushflow hazard—research project in Rana, Norway. Hestnes, E., et al. [1995.eng] 50-404
- Probabilistic evaluation of snow cover stability on mountain slopes. Chernous, P.A., [1995.eng] 50-4689
- PROTEON—a model for local forecasting of blowing snow. Guymarch, G., et al. [1995.fre] 50-4654
- Recent works on snow sonde. Abe, O., [1996.jpn] 50-4937
- Representation of the distribution of the snow cover on the surface of the Earth's dry land. Richter, G.D., et al. [1965.eng] 50-3426
- Seasonal variability in CO₂ transport through snow in a boreal forest. Winston, G.C., et al. [1995.eng] 50-2399
- Seismic detection in classifying avalanches. Sabot, F., et al. [1995.fre] 50-4642
- Seismic detection of avalanches: concept and validation of a pre-operational system. Lepretre, B., et al. [1995.fre] 50-4650
- Simulation models of flow type and powder type avalanches examined by gravity currents. Fukushima, Y., et al. [1996.jpn] 50-4933
- Simulation of climatic model of global snow cover evolution. Douville, H., et al. [1995.eng] 50-2736
- Skier triggered slab avalanche release—some practical implications. Schweizer, J., et al. [1995.eng] 50-4687
- Slush stream phenomena—process and geomorphic impact. Barsch, D., et al. [1993.eng] 50-1674
- Slushflow prediction in Rana, Norway. Hestnes, E., et al. [1993.nor] 50-402

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- Slushflow prediction project in Rana, Norway. Hestnes, E., et al. [1995.eng] 50-4691
- Snow gliding measurements in subalpine forests and on alpine pastures. Höller, P., [1995.eng] 50-4673
- Snow hazard information system in Slovenia. Horvat, A., [1995.eng] 50-4653
- Snow in the Chilean Andes and its natural hazards. Ugarte G., G., [1995.fre] 50-4690
- Snow surface energy exchanges and snowmelt at a continental alpine site. Cline, D., [1995.eng] 50-2408
- Snowmelt and slush torrents in Swedish Lapland. Gude, M., et al. [1995.eng] 50-4188
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- Software for snow data and avalanche forecasting. Dumas, J.L., et al. [1996.fre] 50-4964
- Some surveys of snow chemistry in the Tien Shan of Kirghizstan and Kazakhstan. Kattelmann, R., et al. [1995.eng] 50-2411
- Spatial and time variability of avalanche predictors and accuracy of their estimation. Chernous, P.A., [1995.eng] 50-4658
- Spatial distribution of snow chemical load at the tundra-taiga transition. Pomeroy, J.W., et al. [1995.eng] 50-2412
- Spatially distributed energy balance snowmelt model. Tarboton, D.G., et al. [1995.eng] 50-2407
- Spring snowpack anomaly patterns and winter climatic variability. British Columbia, Canada. Moore, R.D., et al. [1996.eng] 50-3492
- Stability criteria in avalanche hazard forecasting. Perla, R.I., [1969.eng] 50-4260
- Study on the avalanche hazard in the central Spanish Pyrenees (Aragon region). Sáez Alagón, M.T., et al. [1995.fre] 50-4682
- Sub-surface melting in a seasonal snow cover. Koh, G., et al. [1995.eng] 50-1869
- Test of the snow cover numerical model Crocus in avalanche forecasting. Mingo, L., [1995.eng] 50-4646
- Using Rutschblock testing to avoid avalanches. Abromeit, D., [1995.eng] 50-2863
- Validation of climate model for snow cover variations. Douville, H., et al. [1995.eng] 50-2735
- Verification of avalanche danger with respect to avalanche forecasting. Föhn, P.M.B., et al. [1995.fre] 50-4663
- Volcanic eruption at a New Zealand ski resort prompts reevaluation of hazards. Ruapehu Surveillance Group, [1996.eng] 50-5501
- Weather and snowpack conditions essential to slushflow release and downslope propagation. Hestnes, E., et al. [1994.eng] 50-403
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- Effects of snowpack grain size on remote sensing of river basins. Josberger, E.G., et al. [1996.eng] 50-4302
- Field observations of sun crust formation in Hokkaido, Japan. Ozeki, T., et al. [1996.eng] 50-5500
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- Influence of a structure of snow pack on biosystems in regions of severe climate. Golubev, V.N., et al. [1996.eng] 50-6437
- Instructions for meteorological stations and posts, Vol.3, pt.1. Meteorological observations at stations. USSR State Committee on Hydrometeorology and Environmental Control, [1985.eng] 50-5074
- Mathematical model for calculating thermal conductivity of snow subject to metamorphism. Gavril'ev, R.I., [1996.eng] 50-6497
- Microstructure and thermal conductivity of a model snow cover. Sato, A., et al. [1995.jpn] 50-987
- Millimetric radar backscatter from snowcover. Williams, L.D., et al. [1987.eng] 50-6200
- Modeling of snow reflectance in the visible and near infrared. Leroux, C., et al. [1995.fre] 50-4672
- Multi-temporal microwave satellite observations of plains snowpacks. Wankiewicz, A., et al. [1992.eng] 50-3563
- On the volume-viscous behavior of snow. Mahrenholtz, O., et al. [1995.eng] 50-2950
- Polarimetric detection of objects buried in snowpack by a synthetic aperture FM-CW radar. Yamaguchi, Y., et al. [1996.eng] 50-2700
- Size parameters of snow grains in scattering and emission models. Jin, Y.Q., [1995.eng] 50-4179
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- Snow cover and climate in Japan. Ishizaka, M., [1996.jpn] 50-6732

- Snow cover in the Siberian forest-steppe. Zykov, I.V., [1965.eng] 50-3424
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- Adsorption of methane on natural snow. Chaix, L., et al. [1996.eng] 50-5963
- Aircraft observations of ice formation over the Japan Sea. Asuma, Y., et al. [1995.eng] 50-6716
- Characteristics of the aggregation of needle snow crystals. Kajikawa, M., [1995.jpn] 50-3509
- Determining past atmospheric HCl mixing ratios from ice core analyses. Domine, F., et al. [1995.eng] 50-1104
- Electrification mechanisms of snow crystals (Part I). Endoh, T., [1981.eng] 50-5790
- Electrification mechanisms of snow crystals (Part III). Endoh, T., [1981.eng] 50-5799
- Ice cloud microphysics in a general circulation model. pt.3. Fowler, L.D., et al. [1996.eng] 50-5017
- Influence of the growth mechanisms of snow particles on their chemical composition. Takahashi, T., et al. [1996.eng] 50-5610
- Measurement of falling velocity of rimed snowflakes. Ishizaka, M., [1995.jpn] 50-1171
- Morphological studies on the polycrystalline snow germs. Kikuchi, K., et al. [1992.eng] 50-6644
- On snow crystals with small raindrops observed in Greenland. Harimaya, T., et al. [1993.eng] 50-6039
- On the embryo in graupel particles observed in Greenland. Harimaya, T., et al. [1992.eng] 50-6643
- Parameterization of cloud ice crystal conversion processes. pt.1. Harrington, J.Y., et al. [1995.eng] 50-3260
- Precipitation sensitivity to cloud microphysical parameters. Liu, Y.Q., et al. [1996.eng] 50-4353
- Relationship between atmospheric composition and snow composition for HCl and HNO₃. Domine, F., et al. [1995.eng] 50-2392
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- Snow crystal nuclei**
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- Experimental formula of falling velocity of snow crystals. Kajikawa, M., [1975.eng] 50-3883
- Experiments of the charging mechanism of ice particles by the ion-capture process. Asuma, Y., et al. [1983.eng] 50-5797
- Grain-scale mechanisms influencing the elution of ions from snow. Cragin, J.H., et al. [1996.eng] 50-1975
- How to paint a snowflake. Benko, J.J., [1995.eng] 50-6205
- Influence of the growth mechanisms of snow particles on their chemical composition. Takahashi, T., et al. [1996.eng] 50-5610
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- Observation of snow crystals in Antarctica and Greenland. Harada, K., [1995.eng] 50-4385
- On snow crystals with small raindrops observed in Greenland. Harimaya, T., et al. [1993.eng] 50-6039
- Proceedings. Workshop on Future Directions in Snow and Ice Research. Gallatin Gateway, MT, Oct. 3-4, 1995, [1995.eng] 50-4623
- Rapid glaciation of slightly supercooled cumulus clouds. Mason, B.J., [1996.eng] 50-5010
- Snow crystal imaging using scanning electron microscopy. I. Precipitated snow. Rango, A., et al. [1996.eng] 50-4566
- Snow crystal imaging using scanning electron microscopy. II. Metamorphosed snow. Rango, A., et al. [1996.eng] 50-4567
- Variations on the Schaeffer replication technique for snowflakes. Benko, J.J., [1995.eng] 50-3613
- Snow crystals**
- New method for measuring snow crystals (snow crystal measuring system). Kikuchi, K., et al. [1982.eng] 50-5798

Snow deformation

Study of snowflakes in antarctic clouds. Lachlan-Cope, T., [1996,eng] 50-4572

Snow deformation

AC breakdown process of snow sample simulating capped snow on insulator strings. Higashiyama, Y., et al. [1996,eng] 50-5383

Effects of temperature on fracture of dry alpine snow. McClung, D.M., [1995,eng] 50-4688

Field experiments on snow avalanche mechanics. Schweizer, J., et al. [1995,eng] 50-1056

Observations of snow deformation by a wheel. Richmond, P.W., [1995,eng] 50-49

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Bubble formation experiments in snow densification. Ishii, S., et al. [1995,eng] 50-3248

Climatic and geographic patterns in snow density dynamics, northern Eurasia. Onuchin, A.A., et al. [1996,eng] 50-4342

Comparison of arctic, antarctic, and Himalayan ice. Pathak, R.C., [1989,eng] 50-3401

Correlation of snow trafficability and physical properties. Part 1. Yong, R.N., et al. [1989,eng] 50-2602

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Exploring the behaviour of microwaves in a snowpack using modelling techniques. Leconte, R., [1996,eng] 50-5539

Fracture toughness of ice and firm determined from the modified ring test. Fischer, M.P., et al. [1995,eng] 50-458

Laws of distribution of the snow cover on the Greater Caucasus (Soviet Union). Gurtovaia, E.E., et al. [1965,eng] 50-3427

Measuring the density of snow particles and snowfall rate. Muramoto, K.I., et al. [1995,eng] 50-4573

Microstructure and thermal conductivity of a model snow cover. Sato, A., et al. [1995,jpn] 50-987

Microwave emission from density-stratified antarctic firm at 6 cm wavelength. West, R.D., et al. [1996,eng] 50-4892

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Passive microwave remote sensing of snow: volume scattering in antarctic firm. Tsang, L., et al. [1995,eng] 50-4181

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Recent works on snow sonde. Abe, O., [1996,jpn] 50-4937

Shallow ice coring and borehole casing at Dome Fuji Station, East Antarctica. Motoyama, H., et al. [1995,eng] 50-1694

Size parameters of snow grains in scattering and emission models. Jin, Y.Q., [1995,eng] 50-4179

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AFGCW snow analysis model. Hall, S.J., [1986,eng] 50-2469

Alpine ecosystem snow depths derived from tree damage. Woolridge, G.L., et al. [1996,eng] 50-4629

Analysis of observations of snow cover in the Western Caucasus Mountains. Pogorelov, A.V., et al. [1991,rus] 50-1

Application of SSM/I data for snow cover and climate research. Armstrong, R.L., [1995,eng] 50-4178

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Characteristics of the geocryological conditions in shallow water areas in the cryolithozone. Buldovich, S.N., [1996,rus] 50-6389

Characteristics of winters in a high mountain region climate in a period of new climatic norms. Kveták, Š., et al. [1991,rus] 50-3521

Climate change and snow-cover duration in the Australian Alps. Whetton, P.H., et al. [1996,eng] 50-4751

Climatic and geographic patterns in snow density dynamics, northern Eurasia. Onuchin, A.A., et al. [1996,eng] 50-4342

Coherent observation operators for surface data assimilation with application to snow depth. Urban, B., [1996,eng] 50-3008

Cryospheric indices of global change. Barry, R.G., et al. [1994,eng] 50-4789

Depth hoar influence on permafrost thermal regime. Zhang, T., et al. [1996,eng] 50-6585

Detecting and monitoring snow cover variability. Barry, R.G., et al. [1995,eng] 50-3314

Development of a Baltic Sea ice climate model. Leppäranta, M., et al. [1994,eng] 50-3202

Development of field technology and methods for forecasting snowfall and snow cover. [1989,jpn] 50-2041

Distributed snow process modelling: an image processing approach. Davis, R.E., et al. [1995,eng] 50-2462

Distribution of snow cover in built-up areas (e.g., Labytnangi). Lukichev, V.F., [1985,rus] 50-250

Dynamics of heat exchange between sediment and water in a lake. Fang, X., et al. [1996,eng] 50-5970

Earth-grid-based SSM/I data set for cryospheric studies and global change monitoring. Armstrong, R.L., et al. [1995,eng] 50-1963

Effect of soil-ground and surface conditions on the insulating properties of snow cover. Konstantinov, P.I.A., [1996,rus] 50-6393

Effect of the laying of gas pipelines on the geosystem of the cryolithozone in Western Siberia. Moskalenko, N.G., [1996,rus] 50-6849

Empirical study on Nimbus-7 snow mass and Indian summer monsoon rainfall. Kripalani, R.H., et al. [1996,eng] 50-6226

Establishment and application of DTM of the Qinghai-Xizang Plateau. Li, X., et al. [1995,chi] 50-3994

Evaluating snow cover depth in a mountain basin from satellite information. Pichugina, E.L., et al. [1991,rus] 50-4

Evaluation of SMMR satellite-derived snow depth using ground-based measurements. Tait, A., et al. [1996,eng] 50-4016

Heavy snowfalls around Sapporo the winter of 1995/1996. Kanemura, N., et al. [1996,jpn] 50-4929

Herb reproductive timing in relation to snow conditions. Morton, M.L., [1994,eng] 50-1542

How to make a palisade: a field experiment on permafrost formation. Seppälä, M., [1995,eng] 50-874

Ice thickness data, winter 1992-1993. [1995,eng] 50-985

Ice thickness data, winter 1993-1994. Final issue. [1996,eng] 50-3711

Impact of climate change on snow conditions in the French Alps. Martin, E., et al. [1995,fre] 50-4693

Instructions for meteorological stations and posts. Vol.3, pt.1. Meteorological observations at stations. USSR State Committee on Hydrometeorology and Environmental Control, [1985,eng] 50-5074

Intercomparison of snow retrieval algorithms by means of spaceborne microwave radiometry. Rott, H., et al. [1995,eng] 50-4176

Landscape damage by skiing at the Schausinsland in the Black Forest, Germany. Ries, J.B., [1996,eng] 50-4234

Laws of distribution of the snow cover on the Greater Caucasus (Soviet Union). Gurtovaia, E.E., et al. [1965,eng] 50-3427

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Long-term snow variations at Nagaoka, Japan. Nakamura, T., et al. [1996,eng] 50-4898

Mapping of winter surface conditions at Camp Grayling, Michigan. Haugen, R.K., et al. [1992,eng] 50-738

Meteorological events on the Italian Alps during the winter of 1993-94. Costantini, N., et al. [1994,ita] 50-1561

Microwave remote sensing of snow. Koike, T., et al. [1992,eng] 50-3028

Model of Northern Hemisphere glaciation. Dong, B.W., et al. [1995,eng] 50-1328

Model of predicting snow disaster using NOAA/AVHRR data in Nagqu area of Xizang, Lu, A.X., et al. [1995,chi] 50-3987

Monitoring snow cover on the Tibetan Plateau using passive microwave satellite data. Robinson, D.A., et al. [1995,eng] 50-4180

Mountainous meteorology, climatology and aerology of the lower layers of troposphere. Panenka, I., ed. [1991,eng] 50-3518

Object-GAWSER: object-oriented Guelph all-weather storm-event runoff model. Phase 1: training manual. Hinckley, J.A., Jr., [1996,eng] 50-4545

Pixel-scale ground snow survey for passive microwave study of the arctic snow cover. Woo, M.K., et al. [1995,eng] 50-3110

Precipitation, snow conditions and air temperature in Austria in the period 1981-1990. [1994,ger] 50-4266

Precursory signals associated with the interannual variability of the Asian summer monsoon. Yang, S., et al. [1996,eng] 50-5530

Problem of the climatic snow line. Lang, H., et al. [1973,ger] 50-3842

Processing satellite images to determine snow cover depth. Pichugina, E.L., [1991,rus] 50-3

Regionalization of territories according to degree of risk to cryogenic processes. Kuznetsova, I.L., et al. [1996,rus] 50-6396

Revisiting the degree-day method for snowmelt computations. Rango, A., et al. [1995,eng] 50-1653

Sea ice and snow thickness in antarctic seas, winter 1993-94. Jeffries, M.O., et al. [1995,eng] 50-6504

Small basin modeling of snow water equivalence using binary regression tree methods. Elder, K., et al. [1995,eng] 50-2406

Snow cover and microrelief. Fukuoka, Y., [1988,jpn] 50-2046

Snow cover distribution on a Wyoming glacier. Elder, K., [1995,eng] 50-2438

Snow cover in the mountainous regions. Yoshida, Y., [1988,jpn] 50-2048

Snow cover observations in the Buryat ASSR. Nefedeva, E.A., [1965,eng] 50-3425

Snow cover on winter sea ice of Amundsen and Ross seas. Sturm, M., et al. [1995,eng] 50-6505

Snow in the Spanish Cordilleras. ERHIN Program. 1991/92. [1995,spa] 50-1691

Snow mass in boreal forests derived from a modified passive microwave algorithm. Foster, J.L., et al. [1995,eng] 50-3718

Snow parameters for vehicle mobility modeling. Horrigan, T., et al. [1995,eng] 50-2708

Snow recognition and classification using ISOMIX. Li, L.X., et al. [1994,eng] 50-3999

Snow records in Nagaoka, 1913-1992. [1993,eng] 50-488

Snow survey bulletin & water supply forecast, March 1, 1996, Yukon Territory, Canada. Indian and Northern Affairs. Water Resources Division, [1996,eng] 50-3710

Snow survey bulletin & water supply forecast, May 1, 1996, Yukon Territory, Canada. Indian and Northern Affairs. Water Resources Division, [1996,eng] 50-4612

Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-2461

Snow-mass intercomparisons in the boreal forests. Foster, J., et al. [1996,eng] 50-5837

Snow-vegetation relations in the forest tundra of New Quebec, Hudson Bay. Payette, S., et al. [1973,fre] 50-2852

Snowpack water equivalent statistic derived from an observer network. Wilks, D.S., et al. [1996,eng] 50-5199

Spatial and time variability of avalanche predictors and accuracy of their estimation. Chernous, P.A., [1995,eng] 50-4658

Special problems of the precipitation conditions evaluation in mountainous areas of Slovakia. Lapin, M., et al. [1991,eng] 50-3520

SSM/I time series observations of Great Lakes ice and snow. Pilon, D., [1995,eng] 50-3107

Statistical structure of the snow cover field in the Western Caucasus Mountains. Pogorelov, A.V., [1991,rus] 50-2

Study of Alaskan snow loads. Stember, J.A., [1994,eng] 50-370

Study of heavy snowfall in Tohoku District. [1989,jpn] 50-2040

Study on estimating snow cover. [1983,jpn] 50-2442

Synthetic analysis method of snow depth in Nagqu area of Xizang. Zeng, Q.Z., et al. [1995,chi] 50-3984

Temporal analysis of ERS-1 SAR backscatter for hydrology applications. Crevier, Y., et al. [1996,eng] 50-5543

Test of the snow cover numerical model Crocus in avalanche forecasting. Mingo, L., [1995,eng] 50-4646

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AC breakdown process of snow sample simulating capped snow on insulator strings. Higashiyama, Y., et al. [1996,eng] 50-5383

Avalanche prediction for persistent snow slabs. Jamieson, J.B., [1995,eng] 50-3707

Snow disposal

Chaudiere Island proposed snow dumping facility: an environmental appraisal. Lopez, K., et al. [1981,eng] 50-1200

Ice hydraulic investigation for the snow disposal structure, Ottawa River. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1981,eng] 50-1199

Ice hydraulics of snow disposal in the Ottawa River: frazil ice. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1982,eng] 50-1198

Investigation of proposed snow dump facility. Gore & Storrie Limited, Ottawa, Ontario, [1983,eng] 50-1197

Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge, Alaska. Department of Environmental Conservation. Division of Environmental Quality, [1990,eng] 50-3913

Operations management for urban snow removal and disposal. Campbell, J.F., et al. [1995,eng] 50-1107

Possibilities and problems in the realization of snow-storage air conditioning systems. Umemura, T., [1988,jpn] 50-2278

Possibilities of regional development by snow utilization. Taneda, M., [1988,jpn] 50-2280

Report on the proposed snow dumping facilities, Ottawa River. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1980,eng] 50-1201

Snow disposal sites—the Regional Municipality of Ottawa-Carleton experience. Becking, J.J., [1986,eng] 50-1196

Snow distribution

- Snow disposal study for the designated growth centres. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1990,eng] 50-1153
- Snow in the cities—a history of America's urban response. McKelvey, B., [1995,eng] 50-1123
- Summary report on the snow disposal study for Portland, Maine. Woodard & Curran Inc., Consulting Engineers, Portland, ME, [1990,eng] 50-1203
- See [also]: Snow removal
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- Free vibrations of a snowboard. Sakata, T., et al. [1996,eng] 50-4568
- Snow electrical properties**
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- Dielectric property of snow. Kuroiwa, D., [1953,eng] 50-3789
- Electrification mechanisms of snow crystals (Part I). Endoh, T., [1981,eng] 50-5790
- Electrification mechanisms of snow crystals (Part III). Endoh, T., [1981,eng] 50-5799
- Electrification of blowing snow. Latham, J., et al. [1965,eng] 50-3947
- Electrification of snowstorms. Latham, J., et al. [1964,eng] 50-3938
- Experiments of the charging mechanism of ice particles by the ion-capture process. Asuma, Y., et al. [1983,eng] 50-5797
- Leakage resistance of iced insulators and chemical data of ice and snow. Sugawara, N., et al. [1996,eng] 50-5384
- Microwave permittivity of dry snow. Mätzler, C., [1996,eng] 50-3887
- Proceedings. Workshop on Future Directions in Snow and Ice Research. Gallatin Gateway, MT, Oct. 3-4, 1995, [1995,eng] 50-4623
- Radiometer for the detection of avalanche victims. Šval, M., [1995,eng] 50-4692
- Reflection coefficient in microwave propagation over snow-covered terrain. Suzuki, M., [1956,eng] 50-3942
- Submillimeter wave attenuation in falling snow. Suzuki, M., et al. [1979,jpn] 50-3940
- Snow erosion**
- Effect of breakup of melting snowflakes on the resulting size distribution of raindrops. Fujiyoshi, Y., et al. [1996,eng] 50-6724
- Features of nivation landforms in the Changbaishan Mts. Song, C.Q., et al. [1995,chi] 50-5627
- For the control of blowing snow (1)—structure of blowing snow. Takeuchi, M., [1996,jpn] 50-4930
- Limits of wind-tunnel modeling of snow accumulations. Naaim-Bouvet, F., [1995,eng] 50-4667
- Model of powder snow avalanches. Gauer, P., [1995,eng] 50-4648
- Modeling the spatial distribution of wind-transported snow in the ELISA system. Mases, M., et al. [1995,fre] 50-4647
- Particle concentration of snow transported by wind. Martinez, H., et al. [1995,fre] 50-4643
- PROTEON—a model for local forecasting of blowing snow. Guyomarch, G., et al. [1995,fre] 50-4654
- Scaling snowdrift development rate. Lever, J.H., et al. [1995,eng] 50-3114
- Scaling snowdrift development rate. Lever, J.H., et al. [1995,eng] 50-6047
- Wind slabs: new data. Duclos, A., [1995,fre] 50-2585
- Snow evaporation**
- Can inorganic chemical species volatilize from snow. Cragin, J.H., et al. [1995,eng] 50-2393
- Consistent treatment of the evaporation of rain and snow for use in large-scale models. Gregory, D., [1995,eng] 50-353
- Energy balance of snow and partially snow covered areas in western Greenland. Harding, R.J., et al. [1995,eng] 50-5088
- On snow cover ablation. Hofmann, G., [1964,eng] 50-5753
- Origin of present-day antarctic precipitation from surface snow deuterium excess data. Ciais, P., et al. [1995,eng] 50-636
- Snow evaporation from Spitsbergen tundra surfaces. Takeuchi, Y., et al. [1995,eng] 50-3250
- Snow fences**
- Accuracy of Tretyakov precipitation gauge: result of WMO intercomparison. Yang, D.Q., et al. [1995,eng] 50-3115
- Accuracy of Tretyakov precipitation gauge: result of WMO intercomparison. Yang, D.Q., et al. [1995,eng] 50-6044
- Alpine snow fences for avalanche and rockslide control structures. Österreichisch-Alpine Montangesellschaft (Austrian Alpine Mining Company), [1962,ger] 50-5758
- Anchoring of avalanche snow nets by exploded piles. Bouvet, P., et al. [1995,fre] 50-4679
- Avalanche countermeasure operations in the Maekura district. Takahashi, Y., et al. [1992,jpn] 50-3132
- Avalanche prevention and soil control in the Mount Krížná area. Midriak, R., [1976,cze] 50-5142
- Cost-effective snow fence usage—D.I.M.E. Baker, H.A., et al. [1995,eng] 50-3116
- Current status and trends in countermeasures against snow and cold on highways. Murakuni, M., [1988,jpn] 50-2281
- Current status of snow countermeasures on roads in the Soya district. Chiduru, Y., et al. [1995,jpn] 50-6797

- Exhibition of snow removal equipment. Tokyo, 1988. [1988,jpn] 50-2288
- Guidelines for avalanche barriers in the starting zone. BUWAL, Bundesamt für Umwelt, Wald und Landschaft, (Federal Office for Environment, Forest and Landscape). WSL, Eidgenössische Forschungsanstalt für Wald, Schnee und Landschaft (Federal Research Laboratory for Forest, Snow and Landscape), [1990,ger] 50-236
- Limits of wind-tunnel modeling of snow accumulations. Naaim-Bouvet, F., [1995,eng] 50-4667
- More words on snow countermeasures for National Highway 17 (Part 2). Abe, T., [1996,jpn] 50-6734
- More words on snow countermeasures for National Highway 17. Abe, T., [1996,jpn] 50-4939
- Niwot Ridge snow fence experiment: biogeochemical response to changes in the seasonal snowpack. Brooks, P.D., et al. [1995,eng] 50-2421
- Response of alpine vegetation canopy to experimental wind barrier. Smith, B., et al. [1996,eng] 50-3786
- Scaling snowdrift development rate. Lever, J.H., et al. [1995,eng] 50-3114
- Scaling snowdrift development rate. Lever, J.H., et al. [1995,eng] 50-6047
- Snow fences in Hokkaido to improve visibility. Fukuzawa, Y., et al. [1995,jpn] 50-6799
- Snow pressure measurements on snow net systems. Margreth, S., [1995,eng] 50-4677
- Snow-drift modelling and control. Ring, S.L., [1991,eng] 50-4906
- Study on avalanche preventive steel structures. Saito, S., et al. [1963,eng] 50-5795
- Wind tunnel experiments on snowbreaks for Hokkaido highways. Sasaki, M., et al. [1995,jpn] 50-6798
- Snow gages**
- See [also]: Precipitation gages
- Snow glide**
- See [also]: Snow slides
- Snow hardness**
- Correlation of snow trafficability and physical properties. Part 1. Yong, R.N., et al. [1989,eng] 50-2602
- Determining the mechanical resistance of snow by the Pandapal penetrometer. Daudon, D., et al. [1995,fre] 50-4683
- Skier triggered slab avalanche release—some practical implications. Schweizer, J., et al. [1995,eng] 50-4687
- Snow hardness variations in Patriot Hills. Harada, K., et al. [1995,eng] 50-4387
- Snow heat flux**
- Advective-diffusive heat transfer in snow. Albert, M.R., [1995,eng] 50-945
- Application of a heat balance method to long-term snowmelt runoff analysis. Kurashima, E., et al. [1996,jpn] 50-4927
- Bidirectional reflectance measurements of two snow types. Taylor, S., et al. [1995,eng] 50-3113
- Clouds and snowmelt on the North Slope of Alaska. Zhang, T., et al. [1996,eng] 50-5284
- Controls of canopy structure on snowmelt rates in the boreal forest. Metcalfe, R.A., et al. [1995,eng] 50-3130
- Distributed snow process modelling: an image processing approach. Davis, R.E., et al. [1995,eng] 50-3108
- Distributed snow process modelling: an image processing approach. Davis, R.E., et al. [1995,eng] 50-2462
- Effect of Eurasian snow cover on regional and global climate variations. Barnett, T.P., et al. [1993,eng] 50-6042
- Effects of capillary discontinuities on water flow and water retention in layered snowcovers. Jordan, R., [1995,eng] 50-2472
- Energy balance of snow and partially snow covered areas in western Greenland. Harding, R.J., et al. [1995,eng] 50-5088
- Heat balance study of melting coefficient. Yamazaki, T., [1995,jpn] 50-1172
- Hydrological modelling of watershed snowmelt runoff. Bathurst, J.C., et al. [1996,eng] 50-3728
- Infiltration of snowmelt and heat transfer into frozen soil. Zhao, L.T., et al. [1996,eng] 50-6480
- Infrared remote sensing of snow and quartz surfaces. Wald, A.E., [1994,eng] 50-692
- Mathematical model for calculating thermal conductivity of snow subject to metamorphism. Gavrilov, R.I., [1996,eng] 50-6497
- Microstructure and thermal conductivity of a model snow cover. Sato, A., et al. [1995,jpn] 50-987
- On snow cover ablation. Hofmann, G., [1964,eng] 50-5753
- Proceedings of the 52nd annual Eastern Snow Conference, Toronto, Ontario, June 7-8, 1995. Eastern Snow Conference, [1995,eng] 50-3104
- Radiation conditions on the Greenland ice sheet. Konzmann, T., [1994,eng] 50-69
- Radiative characteristics in forest during snowmelt season. Nakabayashi, H., et al. [1996,jpn] 50-4936
- Radiative properties of snow for clear sky solar radiation. Choudhury, B.J., [1979,eng] 50-3955
- Radiative transfer in atmosphere-sea ice-ocean system. Jin, Z., et al. [1996,eng] 50-5276
- Radiometric data and modeled snowpack conditions for Dye 2, Greenland. Mote, T.L., et al. [1996,eng] 50-4961
- Rock breakdown during spring thaw in Spitsbergen. Ødegård, R.S., et al. [1995,eng] 50-4831
- Snow cover effect on the heat and water balance in northwestern China. Kondo, J., et al. [1996,jpn] 50-6729
- Snow surface energy exchanges and snowmelt at a continental alpine site. Cline, D., [1995,eng] 50-2408

Snow hydrology

- Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-2461
- Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-3129
- Spatial and temporal variability of North American snow cover, 1971-1992. Brown, R.D., [1995,eng] 50-3112
- Steady-state convection in porous media and snow metamorphism. Klevor, N., [1984,ger] 50-3840
- Turbulent transfer over an antarctic ice shelf. Vinje, T.E., [1969,eng] 50-3953
- Snow hedges**
- Current status of snow countermeasures on roads in the Soya district. Chiduru, Y., et al. [1995,jpn] 50-6797
- Resistance to snow damage by trees on slopes. Bojo, C., et al. [1995,jpn] 50-990
- Snow highways**
- See [also]: Snow roads
- Snow hydrology**
- A hydrochemical model for seasonally snow-covered alpine watersheds. Wolford, R.A., et al. [1996,eng] 50-4237
- Albedo of dirty snow during conditions of melt. Conway, H., et al. [1996,eng] 50-5969
- Analysis of long term sulfate and nitrate budgets in a Rocky Mountain basin. Baron, J.S., et al. [1995,eng] 50-2447
- Application of a heat balance method to long-term snowmelt runoff analysis. Kurashima, E., et al. [1996,jpn] 50-4927
- Application of a surface hydrology scheme to a watershed. Leung, L.R., et al. [1996,eng] 50-6056
- Application of subspace method in snow recognition. Liu, Z.K., et al. [1990,chi] 50-6659
- ARNO rainfall-runoff model. Todini, E., [1996,eng] 50-3729
- Basic study of pyroclastic flow on a snow-covered slope. Miura, A., et al. [1994,jpn] 50-2836
- Bibliography on the hydrology of the Himalaya-Karakoram region. Young, G.J., et al. [1996,eng] 50-5273
- Canadian development and use of snow cover information from passive microwave satellite data. Goodison, B.E., et al. [1995,eng] 50-4177
- Characterizing multitemporal alpine snowmelt patterns for ecological inferences. Allen, T.R., et al. [1993,eng] 50-1447
- Chemical and isotopic tracers of snowmelt flowpaths in a subalpine watershed. Miller, E.K., et al. [1995,eng] 50-2427
- Climate change and water resources of watersheds in the Sierra Nevada. Pupacko, A., et al. [1992,eng] 50-3031
- Climate change, hydrology, and channel morphology of the Gunnison River. Parker, R.S., et al. [1992,eng] 50-3032
- Climatic trends in the Colorado-Big Thompson Project area. U.S. Bureau of Reclamation. Denver Office, Denver, CO, [1994,eng] 50-5007
- Cold climate hydrometeorology. Upadhyay, D.S., [1995,eng] 50-5508
- Comment on paper by Schaefer et al. Davies, T.D., et al. [1996,eng] 50-3647
- Comparison of geostatistical methodologies used to estimate snow water equivalent. Carroll, S.S., et al. [1996,eng] 50-4409
- Consumption of nitrogen compound from snowpack by microbiological activity. Suzuki, K., et al. [1996,jpn] 50-6728
- Contribution to the hydrological and hydrochemical response of mountain basins. Babjaková, G., et al. [1994,eng] 50-3670
- Controls of canopy structure on snowmelt rates in the boreal forest. Metcalfe, R.A., et al. [1995,eng] 50-3130
- Corn snow—today's skiing, tomorrow's meltwater. Colbeck, S.C., [1996,eng] 50-4758
- Corrections to paper by Shi et al. Shi, J.C., et al. [1995,eng] 50-1834
- Development and stability of preferential flow paths in a layered snowpack. Schneebeli, M., [1995,eng] 50-2402
- Discharge and fluvial sediment transport in a semi-arid Andean catchment. Barsch, D., et al. [1994,eng] 50-1544
- Distributed approach to modeling snowmelt runoff in alpine catchments. Bales, R., et al. [1992,eng] 50-3030
- Distributed snow process modelling: an image processing approach. Davis, R.E., et al. [1995,eng] 50-3108
- Distributed snow process modelling: an image processing approach. Davis, R.E., et al. [1995,eng] 50-2462
- Distributed snowmelt modeling using a clustering algorithm. Harrington, R.F., et al. [1995,eng] 50-2409
- Dynamic monitoring information system for snow of remote sensing imagery. Liu, Z.K., et al. [1990,chi] 50-6657
- Dynamic research by remote sensing on typical region in the Yellow River Valley. Tian, G.L., ed. [1990,chi] 50-6649
- Effect of snow hydrology on glacial runoff. Fountain, A.G., [1996,eng] 50-6084
- Effects of avalanche snow redistribution on summer streamflow variations. de Scally, F.A., [1996,eng] 50-4333
- Effects of capillary discontinuities on water flow and water retention in layered snowcovers. Jordan, R., [1995,eng] 50-2472
- Effects of contour-line strip-cutting of trees on snowmelt runoff. Shimizu, T., et al. [1996,jpn] 50-3500
- Effects of forest clearcutting on snow hydrology. Meng, F.R., et al. [1995,eng] 50-768
- Effects of snowpack grain size on remote sensing of river basins. Josberger, E.G., et al. [1996,eng] 50-4302
- Energy balance and hydrological processes in an arctic watershed. Hinzman, L.D., et al. [1996,eng] 50-4844
- Energy balance of snow and partially snow covered areas in western Greenland. Harding, R.J., et al. [1995,eng] 50-5088
- Estimating snowmelt runoff erosion indices for Canada. Hayhoe, H.N., et al. [1995,eng] 50-967

Snow ice

- Estimation of snowmelt volume using air temperature and wind speed. Hasebe, M., et al. [1995,eng] 50-1958
- Exploring the behaviour of microwaves in a snowpack using modelling techniques. Leconte, R. [1996,eng] 50-5539
- Flow and freezing boundary conditions for snow-melt infiltration into a frozen soil. Tao, Y.X., et al. [1993,eng] 50-4550
- Flow-finger continuity in serial thick-sections in a melting Sierran snowpack. McGurk, B.J., et al. [1995,eng] 50-2401
- Fluvial sediment transfer in the Central Alps. Höfner, T. [1993,ger] 50-3335
- Forecast of spring snowmelt runoff in the upper Yellow River. Lan, Y.C., et al. [1990,chi] 50-6652
- Fuzzy region segmentation of snow remote sensing imagery. Liu, Z.K., et al. [1990,chi] 50-6660
- Glacier river water study in Austre Okstindbreen Basin. Theakstone, W.H., et al. [1994,eng] 50-5700
- Grain-scale mechanisms influencing the elution of ions from snow. Cragin, J.H., et al. [1996,eng] 50-1975
- Hydrochemical processes during snowmelt in a subalpine watershed, Colorado, USA. Peters, N.E., et al. [1995,eng] 50-2423
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995,eng] 50-3125
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995,eng] 50-6043
- Hydrochemical study of snow meltwater and snow cover. Suzuki, K., [1995,eng] 50-2404
- Hydrologic pathways in an alpine watershed. Mast, M.A., et al. [1995,eng] 50-2418
- Hydrological bibliography of Switzerland for 1992. Sevrin, B., et al. [1992,ger] 50-5028
- Hydrological effects of hypothetical climate change in the East River basin, Colorado, USA. McCabe, G.J., Jr., et al. [1995,eng] 50-740
- Hydrological modelling of watershed snowmelt runoff. Bathurst, J.C., et al. [1996,eng] 50-3728
- Hydrological processes contributing to nitrogen leaching. Lepistö, A., [1996,eng] 50-5599
- Improved fuzzy clustering algorithm for snow recognition. Liu, Z.K., et al. [1990,chi] 50-6658
- Incorporating airborne data into the spatial model used to estimate snow water equivalent. Carroll, S.S., et al. [1993,eng] 50-5146
- Information system for snowmelt runoff in Qinghai Province. Feng, X.Z., et al. [1990,chi] 50-6655
- Ion chemistry controls for a Chinese river. Williams, M.W., et al. [1995,eng] 50-2604
- Ion flux through a shallow snowpack: effects of initial conditions and melt sequences. Davis, R.E., et al. [1995,eng] 50-2405
- Isotopic tracing of nitrate sources in snowmelt runoff. Kendall, C., et al. [1995,eng] 50-2426
- ISWRIS information system for runoff forecasting of the upper Yellow River. Wang, J., et al. [1990,chi] 50-6656
- Joint probability analysis for design storm evaluation. Kaur, S., et al. [1993,eng] 50-233
- Lake acidification during mountain snowmelt. Stoddard, J.L., [1995,eng] 50-4076
- Mathematical model for calculating thermal conductivity of snow subject to metamorphism. Gavril'ev, R.I., [1996,eng] 50-6497
- Meadow ecology in the polar Urals, Russia. Gorchakovskii, P.L., et al. [1996,eng] 50-5482
- Modeling measurement errors when estimating snow water equivalent. Carroll, S.S., [1995,eng] 50-2605
- Modelling the redistribution of runoff caused by global warming. Martinez, J., et al. [1994,eng] 50-5202
- Multi-temporal microwave satellite observations of plains snowpacks. Wankiewicz, A., et al. [1992,eng] 50-3563
- Nitrate transport in snowmelt in the Green Mountains, northern Vermont. Daly, D.M., [1995,eng] 50-3128
- Nitrogen deposition and release in alpine watersheds, Loch Vale, Colorado, USA. Campbell, D.H., et al. [1995,eng] 50-2416
- NOAA satellite snow cover monitoring of the upper Yellow River. Chen, X.Z., et al. [1990,chi] 50-6653
- Organic carbon variations in stream waters during snowmelt. Boyer, E.W., et al. [1995,eng] 50-2422
- Organization of the river and flood program in the National Weather Service. Stallings, E.A., et al. [1995,eng] 50-1135
- Prediction of slushflow hazard—research project in Rana, Norway. Hestnes, E., et al. [1995,eng] 50-404
- Proceedings of the 52nd annual Eastern Snow Conference, Toronto, Ontario, June 7-8, 1995. Eastern Snow Conference, [1995,eng] 50-3104
- Proceedings. International Symposium on Biogeochemistry of Seasonally Snow-covered Catchments, Boulder, CO, July 1-14, 1995, [1995,eng] 50-2391
- Processes controlling the chemistry of two snowmelt-dominated streams in the Rocky Mountains. Campbell, D.H., et al. [1995,eng] 50-2545
- Radiometric data and modeled snowpack conditions for Dye 2, Greenland. Mote, T.L., et al. [1996,eng] 50-4961
- Relation of snowpack chemistry to streamwater composition. Shanley, J.B., et al. [1995,eng] 50-2425
- Release of major ions and hydrogen peroxide from homogeneous, melting snow. Herrmann, R., et al. [1995,eng] 50-4014
- Response of snowmelt hydrology to climate change. Brubaker, K.L., et al. [1996,eng] 50-6614
- Results from the 1994 Boreal Ecosystem-Atmosphere Study (BOREAS). Sellers, P., et al. [1995,eng] 50-4574

- Review of design storm and flood studies for Salal Dam in Chenab basin. Rao, P.R., et al. [1993,eng] 50-234
- Revisiting the degree-day method for snowmelt computations—discussion. Howard, C.D.D., [1996,eng] 50-4411
- Revisiting the degree-day method for snowmelt computations. Rango, A., et al. [1995,eng] 50-1653
- RIVER3: simulation of river discharge and sediment transport. Syvitski, J.P.M., et al. [1995,eng] 50-3597
- Rocky Mountain snowmelt on talus slopes by radar satellite. Maxfield, A.W., [1996,eng] 50-5544
- Role of ice in the global water cycle. Lawford, R.G., [1993,eng] 50-5079
- Runoff and sediment yield under grazing in foothills fescue grasslands of Alberta. Naeth, M.A., et al. [1996,eng] 50-3340
- Runoff modeling of a small river basin. Ambroise, B., et al. [1996,eng] 50-6586
- Satellite snow monitoring and runoff forecasting for the Yellow River. Zeng, Q.Z., [1990,chi] 50-6650
- Seasonal freezing and soil erosion during snowmelt. Demidov, V.V., et al. [1995,eng] 50-2714
- Sediment transport and discharge in a high arctic catchment (Liefdefjorden, NW Spitsbergen). Barsch, D., et al. [1994,eng] 50-1545
- Simple energy budget algorithm for the snowmelt runoff model. Kustas, W.P., et al. [1994,eng] 50-3819
- Simulation of climatic model of global snow cover evolution. Douville, H., et al. [1995,eng] 50-2736
- Simulation of summer snowmelt on the Greenland ice sheet using a one-dimensional model. Rowe, C.M., et al. [1995,eng] 50-585
- Slushflow prediction project in Rana, Norway. Hestnes, E., et al. [1995,eng] 50-4691
- Small basin modeling of snow water equivalence using binary regression tree methods. Elder, K., et al. [1995,eng] 50-2406
- Snow and water chemistry of a headwater alpine basin, Urumqi River, Tian Shan, China. Liu, F.J., et al. [1995,eng] 50-2413
- Snow cover effect on the heat and water balance in northwestern China. Kondo, J., et al. [1996,jpn] 50-6729
- Snow cover variations in a field catchment area. Shutov, V.A., [1995,eng] 50-2729
- Snow crystal imaging using scanning electron microscopy: II. Metamorphosed snow. Rango, A., et al. [1996,eng] 50-4567
- Snow evaporation from Spitsbergen tundra surfaces. Takeuchi, Y., et al. [1995,eng] 50-3250
- Snow hydrological parameters for modelling river runoff. Kuchment, L.S., et al. [1996,eng] 50-5519
- Snow surface energy exchanges and snowmelt at a continental alpine site. Cline, D., [1995,eng] 50-2408
- Snow surveying in Canada: a perspective. Goodison, B.E., et al. [1987,eng] 50-4907
- Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-2461
- Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-3129
- Snow. Colbeck, S.C., [1996,eng] 50-4614
- Snowmelt and slush torrents in Swedish Lapland. Gude, M., et al. [1995,eng] 50-4188
- Snowmelt hydrologic model of the Upper Sheep Creek watershed. Jackson, T.H.R., [1994,eng] 50-701
- Snowmelt induced chemical changes in seven streams in the Sierra Nevada, California. Melack, J.M., et al. [1995,eng] 50-2414
- Snowmelt modelling by combining air temperature and a distributed radiation index. Cazorzi, F., et al. [1996,eng] 50-5689
- Snowmelt, global warming, and water level of Lake Biwa. Ikebuchi, S., [1992,eng] 50-3029
- Snowpack controls on soil nitrogen dynamics in the Colorado alpine. Brooks, P.D., et al. [1995,eng] 50-2420
- Snowpack influences on geomorphic processes in Green Lakes Valley, Colorado Front Range. Caine, N., [1995,eng] 50-1404
- Snowpack water equivalent statistic derived from an observer network. Wilks, D.S., et al. [1996,eng] 50-5199
- Spatially distributed energy balance snowmelt model. Tarboton, D.G., et al. [1995,eng] 50-2407
- Spring snowpack anomaly patterns and winter climatic variability, British Columbia, Canada. Moore, R.D., et al. [1996,eng] 50-3492
- Stream flow hydrographic separation during watershed snowmelt. Sueker, J.K., [1995,eng] 50-2419
- Studies on prediction method of snowmelt runoff in the upper reaches of the Yellow River. Song, Q., [1990,chi] 50-6654
- Study on snowmelt runoff prediction using weekly weather forecast. Hatta, S., et al. [1995,eng] 50-1959
- Sub-surface melting in a seasonal snow cover. Koh, G., et al. [1995,eng] 50-1869
- Surface water chemistry and hydrology of a small arctic drainage basin. Everett, K.R., et al. [1996,eng] 50-4847
- Surface water chemistry in alpine watersheds. Stottlemyer, R., et al. [1995,eng] 50-2424
- Synoptic look at research on snow topics. Toupin, J., [1994,fre] 50-5026
- Terrain as a controlling factor for slush streams in Spitsbergen. Scherer, D., et al. [1994,eng] 50-1588
- Transient hydrogeological controls on the chemistry of a seepage lake. Krabbenhoft, D.P., et al. [1995,eng] 50-2730
- Upland watershed hydrochemical response to acidification during snowmelt. Allan, C., [1995,eng] 50-5210

Snow impurities

- Use of remotely sensed data in the hydrological modelling of the upper Columbia watershed. Kite, G.W., [1996,eng] 50-5538
- Validation of climate model for snow cover variations. Douville, H., et al. [1995,eng] 50-2735
- Variation in snowmelt alimentation of annual river runoff. Bolgov, M.V., et al. [1996,eng] 50-5860
- Water movement in wet snow. Gray, J.M.N.T., [1996,eng] 50-3727
- Watershed hydrochemistry simulation. Ohte, N., et al. [1995,eng] 50-2410
- Weather and snowpack conditions essential to slushflow release and downslope propagation. Hestnes, E., et al. [1994,eng] 50-403
- Weathering of aeolian dusts in alpine snows. Delmas, V., et al. [1996,eng] 50-4588
- Winter-spring snow cover distribution in the upper Yellow River. Chen, X.Z., et al. [1990,chi] 50-6651
- Yukon Territory snow survey bulletin & water supply forecast: April 1, 1996. Canada. Indian and Northern Affairs. Water Resources Division, [1996,eng] 50-4294
- Snow ice**
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Characteristics of the geocryological conditions in shallow water areas in the cryolithozone. Buldovich, S.N., [1996,rus] 50-6389
- Ice shell roof for use in cold areas. Kokawa, T., [1984,eng] 50-3166
- Snow ice interface**
- Artificially compacted snow and temperature regime in a glacier active layer. Nazarov, V.D., [1992,rus] 50-149
- Characteristics of the geocryological conditions in shallow water areas in the cryolithozone. Buldovich, S.N., [1996,rus] 50-6389
- Dielectric properties and microwave remote sensing of snow and ice. Matsuoka, T., et al. [1995,jpn] 50-3511
- Equilibrium zone on polar glaciers. Adams, W.P., et al. [1995,eng] 50-3126
- Estimating sea ice thickness from impulse radar sounding time of flight data. Kovacs, A., et al. [1992,eng] 50-61
- Evolution conditions of recent glacier in Mount Xixia Bangma region. Xie, Z.C., et al. [1982,chi] 50-6596
- Formation of ice film at the surface of compacted snow on roads. Matsuzawa, M., et al. [1996,jpn] 50-3502
- Glacial fluctuations in New Zealand determined from snowline. Chinn, T.J.H., [1995,eng] 50-79
- Heat flux through Weddell Sea ice cover. Lytle, V.I., et al. [1996,eng] 50-5263
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995,eng] 50-3123
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995,eng] 50-6046
- Ice core records for analyzing desertification. Nakawo, M., et al. [1995,eng] 50-614
- Ice thickness data, winter 1992-1993. [1995,eng] 50-985
- Ice thickness data, winter 1993-1994. Final issue. [1996,eng] 50-3711
- Impurities in surface meltwater from a Tian Shan glacier. Goto-Azuma, K., et al. [1995,eng] 50-613
- Meltwater generation, infiltration and runoff from the Greenland ice sheet. Zou, J.H., [1993,eng] 50-699
- Methods for determining the snow line. Kerschner, H., [1990,ger] 50-1796
- Microwave emission from polar firn. West, R.D., [1994,eng] 50-662
- Microwave remote sensing of ice sheets by SAR interferometry. Nishio, F., [1995,jpn] 50-1175
- Passive microwave remote sensing of snow: volume scattering in antarctic firn. Tsang, L., et al. [1995,eng] 50-4181
- Preliminary study of melting snow and river ice by dusting using leaf mulch. Hachnel, R.B., et al. [1995,eng] 50-3120
- Radiation conditions on the Greenland ice sheet. Konzelmann, T., [1994,eng] 50-69
- Radiometric data and modeled snowpack conditions for Dye 2, Greenland. Mote, T.L., et al. [1996,eng] 50-4961
- Relation between scattering coefficient and radiation flux over land-fast sea ice. Barber, D.G., et al. [1995,eng] 50-1816
- Snow cover and ice formation on the northern slope of Mount Xixia Bangma. Xie, Z.C., [1982,chi] 50-6597
- Snow cover on winter sea ice of Amundsen and Ross seas. Sturm, M., et al. [1995,eng] 50-6505
- Snow stratigraphy and accumulation rate in the Lambert Glacier basin. Ren, J.W., et al. [1995,chi] 50-5640
- Studies on the method of image processing and analysis of lake ice and snow. Li, W.J., et al. [1995,chi] 50-3995
- Upward flushing of sea water through first year sea ice. Hudier, E.J.J., et al. [1995,eng] 50-4210
- Snow impurities**
- Acid aerosols in rime on Kyushu, Japan. Nagafuchi, O., et al. [1995,eng] 50-4957
- Acid pollutants in air and precipitation/deposition at the Sudeten Mountains, Poland. Kmiec, G., et al. [1995,eng] 50-4954
- Acid precipitation in Hokkaido (Part 2). Tani, A., et al. [1995,jpn] 50-6739
- Analyzing the composition of ecosystems of land in the Noril'sk industrial region. Igamberdiev, V.M., et al. [1994,rus] 50-277

Snow line

- Atomic emission spectrometry of Greenland snow lead impurities. Kobiński, R., et al. [1995,eng] 50-4082
- Biomass burning signatures in Greenland snow and atmosphere. Dibb, J.E., et al. [1996,eng] 50-3152
- Bismuth in recent snow from central Greenland: preliminary results. Candelone, J.P., et al. [1995,eng] 50-779
- Can inorganic chemical species volatilize from snow. Cragin, J.H., et al. [1995,eng] 50-2393
- Cations within glacier ice, snow and river water at Xidatan coal mine. Huang, C.L., et al. [1995,chi] 50-5641
- Changes in trace element speciation in Kola north surface waters during snow melt. Rodushkin, I.V., et al. [1995,eng] 50-4080
- Characteristics of the spatial variability in the pollution of snow cover. Adamenko, V.N., et al. [1992,rus] 50-384
- Chemical composition of acid snowfall in northern part of Hokkaido. Satoh, F., et al. [1996,jpn] 50-6727
- Chemical composition of snow between the Ronne Ice Shelf and the South Pole. Watanabe, O., et al. [1995,eng] 50-4388
- Contribution to the hydrological and hydrochemical response of mountain basins. Babiaková, G., et al. [1994,eng] 50-3670
- Decline of fauna in small streams in the Swedish mountain range. Olofsson, E., et al. [1995,eng] 50-4078
- Deposit of atmospheric biphenyls in the Canadian Arctic. Gregor, D., et al. [1996,eng] 50-6521
- Deposition around a coal-fired power station during a winter-time precipitation event. Jylhä, K., [1995,eng] 50-4953
- Dielectric property of snow. Kuroiwa, D., [1953,eng] 50-3789
- Directional hemispheric reflectance as an indicator of snow cover stability. Sergeant, C., et al. [1995,fr] 50-4685
- Dirty oil makes a feast for soil bacteria. Kiernan, V., [1996,eng] 50-4872
- Dry depositional loading of nitrogen to an alpine snowpack. Niwot Ridge, Colorado. Cress, R.G., et al. [1995,eng] 50-2396
- Ecogeochemical investigations. Kola Peninsula: sulphur and trace element content in snow. Ayras, M., et al. [1995,eng] 50-4081
- Ecophysiology of a snow-bed moss during snowmelt. Woolgrove, C.E., et al. [1996,eng] 50-6748
- Effect of acid snow and acid rain on the soils and others in Niigata Prefecture. Taguchi, Y., et al. [1996,jpn] 50-5801
- Evaluation of the changes in regional wintertime deposition in Finland during 1976-1993. Sovieri, J., et al. [1995,eng] 50-4956
- First results of $^{15}\text{N}/^{14}\text{N}$ ratios in nitrate from alpine and polar ice cores. Freyer, H.D., et al. [1996,eng] 50-3724
- Genotoxicity of snow in the Montreal metropolitan area. White, P.A., et al. [1995,eng] 50-1567
- Glaciers and global warming. Koerner, R.M., et al. [1995,eng] 50-5040
- Grain-scale mechanisms influencing the elution of ions from snow. Cragin, J.H., et al. [1996,eng] 50-1975
- Ice flux through a shallow snowpack: effects of initial conditions and melt sequences. Davis, R.E., et al. [1995,eng] 50-2405
- Ionic constituents of surface snow samples, 1992-1993. Osada, K., et al. [1995,eng] 50-4389
- Iron(II) in rainwater, snow, and surface seawater from a coastal environment. Zhuang, G.S., et al. [1995,eng] 50-979
- Isotopic tracers for investigating hydrological processes. Cooper, L.W., et al. [1996,eng] 50-4846
- Lake acidification during mountain snowmelt. Stoddard, J.L., [1995,eng] 50-4076
- Manganese and other trace elements in urban snow near an expressway. Loranger, S., et al. [1996,eng] 50-5776
- Model of arctic radiation fog trace gas processing. Bergin, M.H., et al. [1996,eng] 50-5764
- Nutrient and persistent pollutant deposition on the Bothnian Bay ice and snow fields. Rahm, L., et al. [1995,eng] 50-1650
- Pollution of natural ice in the Arctic and its indications. Ivanov, A.V., [1989,rus] 50-2301
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- Snowbed bryophyte tissue composition related to air pollution. Woolgrove, C.E., et al. [1996,eng] 50-4004
- Snowpack evidence of air pollution in Lapland and the Kola Peninsula. Lindroos, A.J., et al. [1995,eng] 50-4955
- Sources of acidity in fresh snowfall elemental concentrations. Baisden, W.T., et al. [1995,eng] 50-2126
- Study on the actual conditions of acid snow in Hokuriku District. Yoshikawa, S., [1992,jpn] 50-3133
- Summary report on the snow disposal study for Portland, Maine. Woodard & Curran Inc., Consulting Engineers, Portland, ME, [1990,eng] 50-1203
- Upland watershed hydrochemical response to acidification during snowmelt. Allan, C., [1995,eng] 50-5210
- Snow line**
- Alpine glacial history reconstruction in Wyoming and Argentina. Gosse, J.C., [1994,eng] 50-672
- Approaches to reconstructing the climate of the steppe-tundra biome. Barry, R.G., [1982,eng] 50-3378
- Areal extent and frontal elevations of Swiss glaciers, 1876-1957. Mercanton, P.L., [1958,eng] 50-5744
- Characteristics of the post-glacial advance and retreat in Mount Xixia Bangma region. Zheng, B.X., [1982,chi] 50-6606
- Climatic controls on glacier mass balance in Glacier Bay. Hunter, L.E., et al. [1995,eng] 50-3737
- Climatic variation of Xinjiang in recent 3000 years. Li, J.F., [1985,chi] 50-1996
- Contributions to research on Tibet. Pörtl, K.H., ed. et al. [1994,ger] 50-4774

Snow melting

- Discussion on the Quaternary glaciations in the Karakorum-West Kunlun Mountains. Li, B.Y., et al. [1994,eng] 50-1534
- Distribution and morphological types of recent glaciers in Mount Xixia Bangma region. Shi, Y.F., et al. [1982,chi] 50-6595
- Distribution, growth, and variation of glaciers in the Kunlun Mountains. Zhang, Z.S., et al. [1986,chi] 50-1989
- Early Pleistocene glaciation in the Qinling Mountains of China. Rost, K.T., [1992,ger] 50-1682
- Ecology and conservation of alpine meadows in central Himalaya, India. Ram, J., et al. [1994,eng] 50-5418
- Equilibrium zone on polar glaciers. Adams, W.P., et al. [1995,eng] 50-3126
- Geomorphological altitude zones in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4775
- Glacial fluctuations in New Zealand determined from snowline. Chinn, T.J.H., [1995,eng] 50-79
- Glacial isostatic uplift of Tibet as a consequence of a former ice sheet. Kuhle, M., [1995,eng] 50-6064
- Glacier resources and distributive characteristics in the Central Asia Tianshan Mountains. Liu, C.H., [1995,chi] 50-5630
- Glaciers and lakes in the Tianshan Mountains as indicators of climatic change. Hu, R.J., et al. [1994,eng] 50-3998
- High-altitude distribution of the seasonal snow line in a mountain river basin. Tursunov, U.O., [1991,rus] 50-5
- Himalaya, its ecology and biogeography: a review. Mani, M.S., [1994,eng] 50-5416
- Late Pleistocene equilibrium-line reconstructions in the northern Peruvian Andes. Rodbell, D.T., [1992,eng] 50-2549
- Methods for determining the snow line. Kerschner, H., [1990,ger] 50-1796
- On ancient ice-sheet and ice age in the Tibetan Plateau. Xu, D.M., et al. [1995,chi] 50-5632
- On the paleoclimatology of the Tibetan Plateau during the last glaciation. Frenzel, B., [1994,ger] 50-4777
- Past and present glacial landforms of the central Qilian Shan. Lehmkühl, F., [1995,ger] 50-6077
- Plant communities in alpine habitat with special reference to Garhwal Himalaya. Rawat, D.S., et al. [1994,eng] 50-5420
- Pleistocene glaciations in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1993,eng] 50-1677
- Present glaciation in the mountains of Central Asia. Konov-alova, G.I., [1972,rus] 50-556
- Problem of the climatic snow line. Lang, H., et al. [1973,ger] 50-3842
- Qinghai-Xizang Plateau during the maximum glaciation. Shi, Y.F., et al. [1995,chi] 50-5616
- Quaternary glaciations in the eastern and central Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4776
- Review of design storm and flood studies for Salal Dam in Chenab basin. Rao, P.R., et al. [1993,eng] 50-234
- Snow cover and ice formation on the northern slope of Mount Xixia Bangma. Xie, Z.C., [1982,chi] 50-6597
- Snow monitoring in the United Kingdom using NOAA AVHRR imagery. Lucas, R.M., et al. [1994,eng] 50-167
- Snowbed bryophyte tissue composition related to air pollution. Woolgrove, C.E., et al. [1996,eng] 50-4004
- Spatial and temporal variability of North American snow cover, 1971-1992. Brown, R.D., [1995,eng] 50-3112
- Till provenance studies of Idaho paleoglaciologists. Brugger, K.A., [1996,eng] 50-6245
- Tuckerman Ravine snowbed. Havens, J.M., [1961,eng] 50-5785
- Snow loads**
- AC breakdown process of snow sample simulating capped snow on insulator strings. Higashiyama, Y., et al. [1996,eng] 50-5383
- Anchoring of avalanche snow nets by exploded piles. Bouvet, P., et al. [1995,fr] 50-4679
- Anemometer for transmission line maintenance in heavy icing areas. Ozawa, A., et al. [1996,eng] 50-5395
- Automated roof-snow remover. Kobayashi, T., et al. [1995,jpn] 50-988
- Avalanche countermeasure operations in the Maekura district. Takahashi, Y., et al. [1992,jpn] 50-3132
- Design of girders for a bridge in Hokkaido subject to snow and wind. Endo, T., et al. [1995,jpn] 50-6807
- Design of undersnow facilities for Byrd Station. Mellor, M., et al. [1962,eng] 50-3805
- Effects of roof size on snow loads. Irwin, P.A., et al. [1995,eng] 50-3010
- Effects of wind, snow and ice on fiber optic overhead lines. Wareing, J.B., [1996,eng] 50-5349
- Failures of overhead lines due to ice and wet snow in Serbia. Vučković, Z., et al. [1996,eng] 50-5365
- Fifteen years field trials of galloping controls for overhead power lines. Havard, D.G., [1996,eng] 50-5382
- Galloping events and associated meteorological condition experienced in Hokuriku area. Kasima, H., et al. [1996,eng] 50-5380
- Galloping on overhead transmission test lines with artificial snow. Ozawa, A., et al. [1996,eng] 50-5379
- House construction in deep snow regions. Ujje, T., [1988,jpn] 50-2052
- Ice and snow damage to high voltage overhead lines in Romania. Goia, L.M., et al. [1996,eng] 50-5366
- Leakage resistance of iced insulators and chemical data of ice and snow. Sugawara, N., et al. [1996,eng] 50-5384
- Limits of wind-tunnel modeling of snow accumulations. Naaim-Bouvet, F., [1995,eng] 50-4667
- Measurements of ice and snow loads on the Tyee Lake 138 kV line. Peabody, A.B., [1996,eng] 50-5346
- Measurements on avalanche dynamics: a new installation. Rammer, L., [1995,eng] 50-4674
- Model of powder snow avalanches. Gauer, P., [1995,eng] 50-4648
- National climatic reference base for exceptional wet snow and rime ice episodes. Raison, T., et al. [1996,eng] 50-5331
- On the volume-viscous behavior of snow. Mahrenholtz, O., et al. [1995,eng] 50-2950
- Proceedings. IWAIS '96. International Workshop on Atmospheric Icing of Structures, 7th, Chicoutimi, Quebec, June 3-7, 1996. [1996,eng] 50-5329
- Research report on snowproofing of houses. Uchida, Y., ed. [1984,jpn] 50-2291
- Resistance to snow damage by trees on slopes. Bojo, C., et al. [1995,jpn] 50-990
- Scaling snowdrift development rate. Lever, J.H., et al. [1995,eng] 50-3114
- Scaling snowdrift development rate. Lever, J.H., et al. [1995,eng] 50-6047
- Snow accretion and galloping on overhead transmission lines. Ozawa, A., et al. [1996,eng] 50-5371
- Snow guards for metal roofs. Tobiasson, W., et al. [1996,eng] 50-6140
- Snow pressure measurements on snow net systems. Margreth, S., [1995,eng] 50-4677
- Snowproof houses Plan 50. [1986,jpn] 50-2293
- Study of Alaskan snow loads. Stember, J.A., [1994,eng] 50-370
- Study on avalanche preventive steel structures. Saito, S., et al. [1963,eng] 50-5795
- Temperature-controlled tests on a snow-removal system for photovoltaic panels. Gastonguay, L., et al. [1996,eng] 50-5403
- Warning system for snow on power lines using neural networks. Ohta, H., et al. [1996,eng] 50-5355
- Wet snow icing combined with strong wind—field inspections and field measurements. Eliasson, A.J., et al. [1996,eng] 50-5352
- Snow manufacturing**
- Artificial snow making equipment as seen in the patents. Seki, M., [1995,jpn] 50-1001
- Modeling winter storms over Arizona, Vol.2: microphysics model. Matthews, D.A., [1995,eng] 50-2799
- Modeling winter storms over Arizona, Vol.3: local-scale model. Medina, J.G., [1995,eng] 50-2800
- Modeling winter storms over Arizona. Final report—Volume I. Matthews, D.A., et al. [1995,eng] 50-2798
- Wastewater treatment through atomizing freeze-crystallization. White, J.A., et al. [1995,eng] 50-3117
- See [also]: Artificial snow
- Snow mechanics**
- Design and analysis of a low speed drag plow for use in deep snow. Walsh, M.R., [1991,eng] 50-6198
- Experimental study of skiing turns, pt.3. Sahashi, T., et al. [1996,eng] 50-5919
- Field experiments on snow avalanche mechanics. Schweizer, J., et al. [1995,eng] 50-1056
- Field measurements and model calibration in avalanche dynamics. Nettiuno, L., [1995,eng] 50-1057
- Heat transfer in a snow cover. Zviagin, V.V., et al. [1990,rus] 50-1614
- Large strain finite-element analysis of snow. Meschke, G., et al. [1996,eng] 50-5923
- Proceedings. Workshop on Future Directions in Snow and Ice Research. Gallatin Gateway, MT, Oct. 3-4, 1995. [1995,eng] 50-4623
- Snow behaviour under compaction for the production of ice. Gaméda, S., et al. [1996,eng] 50-4047
- Viscosity of fluidized snow. Nishimura, K., [1996,eng] 50-5465
- Snow melting**
- 1990 arctic sea ice reduction related to snow cover minima. Serreze, M.C., et al. [1995,eng] 50-773
- Ammonium salts as agents for melting of snow. Abe, H., et al. [1995,jpn] 50-5070
- Application of a snow melting system using heat pipes with electric cartridge heaters. Egawa, H., et al. [1996,eng] 50-6492
- Backscattering through the melting layer of precipitation. Russchenberg, H.W.J., et al. [1996,eng] 50-2699
- Bistatic scattering of radiowaves by a melting layer of precipitation. Zhang, W., et al. [1996,eng] 50-6335
- Cratering phenomena on aircraft anti-icing films. La Due, J., et al. [1996,eng] 50-4219
- Current technology of snow melting system using heat pipes in Japan. Sugihara, S., et al. [1996,eng] 50-6489
- DEM corrected ERS-1 SAR data for snow monitoring. Guneriusen, T., et al. [1996,eng] 50-3149
- Development of a vehicle underfloor snow-melting robot. Imai, T., et al. [1995,eng] 50-1970
- Effect of breakup of melting snowflakes on the resulting size distribution of raindrops. Fujiyoshi, Y., et al. [1996,eng] 50-6724
- Energy saving characteristics of new type road-heating system. Hokari, K., et al. [1996,eng] 50-5400
- Exhibition of snow removal equipment, Tokyo, 1988. [1988,jpn] 50-2288
- Flame spread over fuel-spilled and/or snow-covered asphalt road. Ishida, H., et al. [1996,eng] 50-4230

Snow metal friction

- Heat balance study of melting coefficient. Yamazaki, T., [1995,jpn] 50-1172
- Heated mat structure for melting ice and snow. Dyer, C.W., [1995,eng] 50-3477
- Means of determining the anti-erosion stability of soil. Vladimirov, V.Kh., [1992,rus] 50-1922
- New look at the melting layer. Drummond, F.J., et al., [1996,eng] 50-4145
- On snow cover ablation. Hofmann, G., [1964,eng] 50-5753
- Patent for use of heat storing mixtures. Kakiuchi, H., [1995,jpn] 50-5071
- Preliminary study of melting snow and river ice by dusting using leaf mulch. Hachuel, R.B., et al., [1995,eng] 50-3120
- Snow and ice removal apparatus. Stanger, T.P., [1995,eng] 50-3480
- Snow cover in the Siberian forest-steppe. Zykov, I.V., [1965,eng] 50-3424
- Snow cover observations in the Buryat ASSR. Nefedeva, E.A., [1965,eng] 50-3425
- Snow melting on walkways at waterworks. Mikazuki, S., et al., [1992,jpn] 50-3139
- Temperature-controlled tests on a snow-removal system for photovoltaic panels. Gastonguay, L., et al., [1996,eng] 50-5403
- Test results and trends in the adoption of new technology for road snow melting. Sato, I., [1988,jpn] 50-2283
- Tests clear snow, path for use of liquid anti-icing in northwest. Deep, D., et al., [1995,eng] 50-1954
- Tuckerman Ravine snowbed. Havens, J.M., [1961,eng] 50-5785
- Weathering of aeolian dusts in alpine snows. Delmas, V., et al., [1996,eng] 50-4588
- See [also]: Meltwater; Snow melting; Snowmelt
- Snow metal friction**
- See [also]: Metal snow friction
- Snow metamorphism**
- See [also]: Metamorphism (snow)
- Snow morphology**
- Bidirectional reflectance measurements of two snow types. Taylor, S., et al., [1995,eng] 50-3113
- Comparison of arctic, antarctic, and Himalayan ice. Pathak, R.C., [1989,eng] 50-3401
- Snow studies at Maudheim. Schytt, V., [1958,eng] 50-6418
- Snow studies inland. Schytt, V., [1958,eng] 50-6419
- Snow optics**
- Albedo of dry snow during conditions of melt. Conway, H., et al., [1996,eng] 50-5969
- Albedo of forest with crown snow. Yamazaki, T., et al., [1996,jpn] 50-3501
- Application of passive microwave retrieval algorithms to monitor global snow cover. Armstrong, R.L., et al., [1992,eng] 50-3562
- Bidirectional reflectance measurements of two snow types. Taylor, S., et al., [1995,eng] 50-3113
- Comparison of sensors and conditions at Smoke Week X and Smoke Week XI. Kennedy, B.W., et al., [1990,eng] 50-737
- DEM corrected ERS-1 SAR data for snow monitoring in alpine regions. Guneriusson, T., et al., [1995,eng] 50-3716
- Directional hemispheric reflectance as an indicator of snow cover stability. Sergeant, C., et al., [1995,eng] 50-4685
- Environmentally caused variation in exterior intrusion detection. Peck, L., [1995,eng] 50-888
- Estimating visibility on roads in snow by video. Ishimoto, K., et al., [1995,jpn] 50-6800
- Evaluation of SMMR satellite-derived snow depth using ground-based measurements. Tait, A., et al., [1996,eng] 50-4016
- Glaciological studies in the high central Andes using digital processing of satellite images. Llorens, R.E., et al., [1995,eng] 50-3339
- Ice cloud microphysics in a general circulation model, pt.2. Fowler, L.D., et al., [1996,eng] 50-5016
- Infrared remote sensing of snow and quartz surfaces. Wald, A.E., [1994,eng] 50-692
- LANDSAT automated mapping of mountain snow cover. Rosenthal, W., et al., [1996,eng] 50-3312
- Lidar detection of the transition from snowflakes to rain. Sassen, K., et al., [1996,eng] 50-5282
- Low brightness temperatures of Martian polar caps: CO₂ clouds or low surface emissivity? Forger, F., et al., [1995,eng] 50-2120
- Measuring geophysical parameters of the Greenland ice sheet using airborne radar altimetry. Ferraro, E.J., et al., [1995,eng] 50-1881
- Millimetric radar backscatter from snowcover. Williams, L.D., et al., [1987,eng] 50-6200
- Modeling of snow reflectance in the visible and near infrared. Leroux, C., et al., [1995,eng] 50-4672
- New method for measuring snow crystals (snow crystal measuring system). Kikuchi, K., et al., [1982,eng] 50-5798
- Obscuration in smoke and snow. Hutt, D.L., [1990,eng] 50-733
- On the scattered radiation intensity fluctuations for a focused laser beam in snowfall. Vostretsov, N.A., et al., [1994,eng] 50-1285
- Parameterization of surface albedo for sea ice and its snow cover. Barry, R.G., [1996,eng] 50-5014
- Precipitation parameters in natural obscuration. Hogan, A.W., [1990,eng] 50-734
- Proceedings. Workshop on Future Directions in Snow and Ice Research. Gallatin Gateway, MT, Oct. 3-4, 1995, [1995,eng] 50-4623

Snow recrystallization

- Radar measurements of melt zones on the Greenland ice sheet. Jezek, K.C., et al., [1994,eng] 50-4804
- Radiative properties of snow for clear sky solar radiation. Choudhury, B.J., [1979,eng] 50-3955
- Snow accumulation rate from synthesis of microwave and altimeter data. Davis, C.H., [1995,eng] 50-162
- Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces. Zibordi, G., et al., [1996,eng] 50-5467
- Snow identification from radar wind profiler spectra. Ralph, F.M., et al., [1996,eng] 50-5163
- Snow recognition and classification using ISOMIX. Li, L.X., et al., [1994,eng] 50-3999
- Snow scavenging effects on large-area smoke screens. Slat, J.R., et al., [1991,eng] 50-764
- Snow scavenging on the winter battlefield. Slat, J.R., et al., [1990,eng] 50-735
- Snowfall intensity climatologies within the contiguous United States. Ryerson, C.C., [1991,eng] 50-763
- Submesoscale variation in snow-induced obscuration. Hogan, A.W., [1991,eng] 50-762
- Tests of electro-optic sensors in smoke and obscuration. Quebec, Feb.-Mar. 1989. Kennedy, B.W., et al., [1990,eng] 50-736
- Ultraviolet (A) and short-wave radiation on the Juneau Icefield, Alaska. Quakenbush, T., et al., [1992,eng] 50-363
- Snow pellets**
- Aircraft observations of ice formation over the Japan Sea. Asuma, Y., et al., [1995,eng] 50-6716
- Comment on paper by Avila et al. Jayaratne, R., et al., [1996,eng] 50-5454
- Cratering phenomena on aircraft anti-icing films. La Due, J., et al., [1996,eng] 50-4219
- Distribution of water in hailstones. Chylek, P., et al., [1984,eng] 50-4495
- Dual polarization radar observations of thunderclouds in winter season. Sonoi, Y., et al., [1995,eng] 50-4258
- Factors affecting the stability of fall attitude of cone-like graupel. Kajikawa, M., [1996,jpn] 50-4935
- Ground and aircraft weather observations and in-flight aircraft icing. Bernstein, B.C., et al., [1996,eng] 50-5373
- Hail. Knight, N.C., [1996,eng] 50-4987
- Mesoscale and microscale characteristics of a CASP II severe ice pellet storm. Hanesiak, J.M., [1994,eng] 50-4170
- On snow crystals with small raindrops observed in Greenland. Harimaya, T., et al., [1993,eng] 50-6039
- On the embryo in graupel particles observed in Greenland. Harimaya, T., et al., [1992,eng] 50-6643
- Physical interpretation of results from the HIPLEX-1 experiment. Cooper, W.A., et al., [1984,eng] 50-4920
- Possible high ice particle production during graupel-graupel collisions. Takahashi, T., et al., [1995,eng] 50-3005
- Power law determination of ice crystal particle velocities. Mitchell, D.L., [1996,eng] 50-6558
- Production and depletion of supercooled liquid water in a Colorado winter storm. Politovich, M.K., et al., [1995,eng] 50-3560
- Radar observation of cloud electrification during thunderstorms. Jameson, A.R., et al., [1996,eng] 50-3965
- Radar study of the evolution of a lightning producing storm. Carey, L.D., et al., [1996,eng] 50-4598
- Rain production in convective clouds, pt.2. Reislin, T., et al., [1996,eng] 50-6325
- Rapid glaciation of slightly supercooled cumulus clouds. Mason, B.J., [1996,eng] 50-5010
- Role of electrified ice meltwater in thunderstorms. Kamra, A.K., et al., [1984,eng] 50-4923
- Simulation of rain production in convective clouds, pt.1. Reislin, T., et al., [1996,eng] 50-4369
- Spaceborne radiometric determination of cloud structure. Pierdicca, N., et al., [1996,eng] 50-5683
- Temperature dependence of static charging in ice growing by riming. Avila, E.E., et al., [1995,eng] 50-3004
- Thunderstorm electrification analysis: the dependence on the temperature-LWC diagram. Scavuzzo, C.M., et al., [1996,eng] 50-3342
- Thunderstorm electrification. Saunders, C.P.R., [1995,eng] 50-4075
- Snow permeability**
- Advective-diffusive heat transfer in snow. Albert, M.R., [1995,eng] 50-945
- Apparatus for in situ measurement of CO₂ diffusion coefficient of snowpack. Kominami, Y., et al., [1996,jpn] 50-4924
- CO₂ flux through a Wyoming seasonal snowpack: diffusional and pressure pumping effects. Massman, W., et al., [1995,eng] 50-2400
- Effects of capillary discontinuities on water flow and water retention in layered snowcovers. Jordan, R., [1995,eng] 50-2472
- Evolution of factors affecting gas transmissivity of snow in the boreal forest. Hardy, J.P., et al., [1995,eng] 50-2398
- Soil-to-snow movement of synthetic organic compounds in natural snowpack. Hogan, A., et al., [1995,eng] 50-2403
- Steady-state convection in porous media and snow metamorphism. Klever, N., [1984,ger] 50-3840
- Ventilation experiments in a seasonal snow cover. Albert, M.R., et al., [1995,eng] 50-2397
- Water movement in wet snow. Gray, J.M.N.T., [1996,eng] 50-3727
- Snow physics**
- Antarctic journal of the United States, vol.29, no.1, [1994,eng] 50-139
- Backscattering through the melting layer of precipitation. Russchenberg, H.W.J., et al., [1996,eng] 50-2699
- Bubble formation experiments in snow densification. Ishii, S., et al., [1995,eng] 50-3248
- Can inorganic chemical species volatilize from snow. Cragin, J.H., et al., [1995,eng] 50-2393
- CO₂ flux through a Wyoming seasonal snowpack: diffusional and pressure pumping effects. Massman, W., et al., [1995,eng] 50-2400
- Compacted snow road. 1. Properties of snow. Eriksson, R., [1959,eng] 50-3853
- Computer modeling of avalanche triggering by wind. Sivardiere, F., et al., [1995,eng] 50-1064
- Contrast between natural and simulated snowdrift experiments. Naaim-Bouvet, F., [1995,eng] 50-1063
- Diel variations of H₂O₂ in Greenland: a discussion of the cause and effect relationship. Bales, R.C., et al., [1995,eng] 50-634
- Dielectric property of snow. Kuroiwa, D., [1953,eng] 50-3789
- Effect of breakup of melting snowflakes on the resulting size distribution of raindrops. Fujiyoshi, Y., et al., [1996,eng] 50-6724
- Effects of roof size on snow loads. Irwin, P.A., et al., [1995,eng] 50-3010
- Field observations of sun crust formation in Hokkaido, Japan. Ozeki, T., et al., [1996,eng] 50-5500
- Flow-finger continuity in serial thick-sections in a melting Sierran snowpack. McGurk, B.J., et al., [1995,eng] 50-2401
- Geometry of heat and mass transfer in dry snow: a review of theory and experiment. Arons, E.M., et al., [1995,eng] 50-1401
- Grain-scale mechanisms influencing the elution of ions from snow. Cragin, J.H., et al., [1996,eng] 50-1975
- Heat transfer in a snow cover. Zviagin, V.V., et al., [1990,rus] 50-1614
- Hydrological bibliography of Switzerland for 1992. Sevrin, B., et al., [1992,ger] 50-5028
- Ion flux through a shallow snowpack: effects of initial conditions and melt sequences. Davis, R.E., et al., [1995,eng] 50-2405
- Measurements of powder snow avalanche—nature. Nishimura, K., et al., [1995,eng] 50-1058
- Measurements of powder snow avalanches—laboratory. Keller, S., [1995,eng] 50-1059
- Measuring the density of snow particles and snowfall rate. Muramoto, K.I., et al., [1995,eng] 50-4573
- Microwave permittivity of dry snow. Mätzler, C., [1996,eng] 50-3887
- Multilingual vocabulary—snow and avalanches. International Mountain Rescue Commission, [1991,eng] 50-5292
- Niwot Ridge snow fence experiment: biogeochemical response to changes in the seasonal snowpack. Brooks, P.D., et al., [1995,eng] 50-2421
- Profiles of particle characteristics in blowing snow. Naaim, M., et al., [1995,eng] 50-1062
- Radio wave scattering from melting snow particles. Zhang, W., et al., [1996,eng] 50-6622
- Release of major ions and hydrogen peroxide from homogeneous, melting snow. Herrmann, R., et al., [1995,eng] 50-4014
- Seasonal variability in CO₂ transport through snow in a boreal forest. Winston, G.C., et al., [1995,eng] 50-2399
- Simulation of summer snowmelt on the Greenland ice sheet using a one-dimensional model. Rowe, C.M., et al., [1995,eng] 50-585
- Simulation of wet-snow accretion by axial growth on a transmission line conductor. Poots, G., et al., [1995,eng] 50-2349
- Snow and ice characteristics of the Bellingshausen Sea, during the spring melt. Aldworth, E., [1995,eng] 50-1022
- Snow crystal imaging using scanning electron microscopy: I. Precipitated snow. Rangno, A., et al., [1996,eng] 50-4566
- Snow crystal imaging using scanning electron microscopy: II. Metamorphosed snow. Rangno, A., et al., [1996,eng] 50-4567
- Snow parameters for vehicle mobility modeling. Horrigan, T., et al., [1995,eng] 50-2708
- Snow surface energy exchanges and snowmelt at a continental alpine site. Cline, D., [1995,eng] 50-2408
- Snow. Colbeck, S.C., [1996,eng] 50-4614
- Soil-to-snow movement of synthetic organic compounds in natural snowpack. Hogan, A., et al., [1995,eng] 50-2403
- Sorption of nonpolar organic vapors by ice and snow. Hoff, J.T., et al., [1995,eng] 50-644
- Spatially distributed energy balance snowmelt model. Tarboton, D.G., et al., [1995,eng] 50-2407
- Sub-surface melting in a seasonal snow cover. Koh, G., et al., [1995,eng] 50-1869
- Synoptic look at research on snow topics. Toupin, J., [1994,eng] 50-5026
- Ventilation experiments in a seasonal snow cover. Albert, M.R., et al., [1995,eng] 50-2397
- Snow plasticity**
- Formation and movement of avalanches. Moskalev, I.U.D., [1966,rus] 50-3833
- Large strain finite-element analysis of snow. Meschke, G., et al., [1996,eng] 50-5923
- Snow plastics friction**
- See [also]: Plastics snow friction
- Snow precipitation**
- See [also]: Snowfall
- Snow recrystallization**
- See [also]: Metamorphism (snow)

Snow removal

Snow removal

- Alkaline snow-melting agents containing chlorides and lime for pavements and roads. Ekusa, K., et al. [1996,eng] 50-5591
- Ammonium salts as agents for melting of snow. Abe, H., et al. [1995,jpn] 50-5070
- Application of a snow melting system using heat pipes with electric cartridge heaters. Egawa, H., et al. [1996,eng] 50-6492
- Automated roof-snow remover. Kobayashi, T., et al. [1995,jpn] 50-988
- Calculation of the amount of salt required to melt ice and snow on highways. Schneider, T.R., [1962,eng] 50-3681
- Cold weather operations. [1983,eng] 50-3792
- Compositions containing ammonium salts and urea for melting of snow. Abe, H., et al. [1995,eng] 50-4595
- County improves its snow and ice control program. da Cunha, M., [1996,eng] 50-6101
- Current conditions and countermeasures in the snow belt. [1985,jpn] 50-2036
- Current conditions and countermeasures in the snow belt. [1988,jpn] 50-2037
- Current conditions and countermeasures in the snow belt. [1991,jpn] 50-2038
- Current status and problems of countermeasures against snow and cold for oil storage tanks. Toyama, S., [1988,jpn] 50-2284
- Current status and prospects of snow countermeasures in Nagaoka New Town. Komine, M., [1988,jpn] 50-2286
- Current status and trends in countermeasures against snow and cold on highways. Murakuni, M., [1988,jpn] 50-2281
- Current technology of snow melting system using heat pipes in Japan. Sugihara, S., et al. [1996,eng] 50-6489
- Development of pneumatic conveying technologies for snow. Kobayashi, T., [1995,jpn] 50-612
- Device for clearing a soil surface of snow cover. Goriaev, V.E., et al. [1982,rus] 50-1657
- Device for clearing a soil surface of snow cover. Goriaev, V.E., et al. [1982,rus] 50-1656
- Device for the removal of snow and ice from road pavements. Vetter, V.I., et al. [1992,rus] 50-1934
- Economic evaluation of snow removal systems in urban areas. Part 1. Morohashi, K., et al. [1995,jpn] 50-995
- Economic evaluation of snow-removal systems in urban areas. Part 2. Morohashi, K., et al. [1996,jpn] 50-4925
- Energy saving characteristics of new type road-heating system. Hokari, K., et al. [1996,eng] 50-5400
- Exhibition of snow removal equipment. Tokyo, 1988. [1988,jpn] 50-2288
- Handling snow on the New Jersey Turnpike. Pagan, A.R., [1995,eng] 50-3859
- How terrain and road design affect winter maintenance on the Klondike Highway. Tabler, R.D., et al. [1993,eng] 50-5595
- How to battle snow and ice. Askew, D., [1995,eng] 50-3858
- Hydraulic conveying of snow and ice. (3): measurement of pipe flow. Shirakashi, M., et al. [1996,jpn] 50-4934
- Hydraulic conveying of snow and ice, part 2. Kitahara, T., [1995,jpn] 50-996
- Icing countermeasures for small parabolic receiving antennas. Suzuki, M., et al. [1977,jpn] 50-5796
- Improvement of sidewalk snow removal within urban areas. Takahashi, S., et al. [1992,jpn] 50-3138
- Indiana streamlines permitting and ice/snow removal. Pittman, R., [1996,eng] 50-3495
- Investigation of the impact of snow removal activities on pavement markings in Virginia. Cotrell, B.H., Jr., [1995,eng] 50-2791
- Japanese and snow. Yoshino, M., [1988,jpn] 50-2044
- Machine for removing snow from railroad tracks. Mokin, N.V., et al. [1992,rus] 50-1935
- Maryland State Highway Administration tallies record winter. Kassoff, H., [1996,eng] 50-6103
- Maximum flow rate of floating snow in an open channel. Fukushima, Y., [1995,jpn] 50-3508
- New salting methods on UK highways. Cruickshank, J., [1996,eng] 50-4366
- No ice on board. Johnson, J.P., et al. [1995,eng] 50-1973
- Operations management for urban snow removal and disposal. Campbell, J.F., et al. [1995,eng] 50-1107
- Passive melting of ice and snow on solar photovoltaic arrays. Ross, M.M.D., et al. [1996,eng] 50-5370
- Pedestrian slips and falls on icy roads. Takamori, M., et al. [1995,jpn] 50-6794
- Portable shelter to protect bridges under construction from snow and cold. Kobayashi, Y., et al. [1992,jpn] 50-3134
- Possibilities of regional development by snow utilization. Taneda, M., [1988,jpn] 50-2280
- Pretreating salt with liquid calcium chloride for ice control on urban streets. Dunn, W., et al. [1995,eng] 50-3118
- Process and product for removing ice or snow from a traffic surface. Dieupart, F., [1995,eng] 50-3468
- Progress report on experimental projects for snowproof housing. Takayama, Y., [1988,jpn] 50-2287
- Relation between winter road maintenance and road safety. Savenhed, H., [1995,eng] 50-5929
- Research on technology for conquering and exploiting snow. [1988,jpn] 50-2273
- Research report on snowproofing of houses. Uchida, Y., ed. [1984,jpn] 50-2291
- Road and airfield maintenance in cold regions. Becker, J.C., et al. [1996,eng] 50-6193

- Road condition reporting vehicles (Part 2). Harada, N., et al. [1995,jpn] 50-6741
- Snow and ice control in North America. Perry, A.H., et al. [1991,eng] 50-4905
- Snow and ice control. Minnesota. Office of the Legislative Auditor. [1995,eng] 50-3596
- Snow countermeasures on metropolitan expressways. Ishizawa, M., et al. [1988,jpn] 50-2282
- Snow in the cities—a history of America's urban response. McKelvey, B., [1995,eng] 50-1123
- Snow melting on walkways at waterworks. Mikazuki, S., et al. [1992,jpn] 50-3139
- Snow removal by a blower in a straight pipe. Kobayashi, T., et al. [1995,jpn] 50-611
- Some innovations in snow and ice control equipment. [1995,eng] 50-4156
- Study on integrated system design for regional development in snowy regions. [1989,jpn] 50-2039
- Study on road surface countermeasures in winter. Hokkaido Development Bureau. Civil Engineering Research Institute. [1995,jpn] 50-6787
- Technology assessment on systems for conquering and exploiting snow. [1987,jpn] 50-2289
- Temperature-controlled tests on a snow-removal system for photovoltaic panels. Gastonguay, L., et al. [1996,eng] 50-5403
- Test results and trends in the adoption of new technology for road snow melting. Sato, I., [1988,jpn] 50-2283
- Urban snow disasters. Higashiura, M., [1988,jpn] 50-2047
- Winter maintenance: back to the basics. [1995,eng] 50-3856
- Zero-velocity deicer spreaders clear more roadway for less. Banasiak, D., [1995,eng] 50-3675
- Snow removal equipment**
- Automated roof-snow remover. Kobayashi, T., et al. [1995,jpn] 50-988
- Better visibility needed in snowplowing. [1995,eng] 50-3855
- Design and analysis of a low speed drag plow for use in deep snow. Walsh, M.R., [1991,eng] 50-6198
- Development of a vehicle underfloor snow-melting robot. Imai, T., et al. [1995,eng] 50-1970
- Development of easily handled sidewalk snow removal equipment. Kamimura, H., et al. [1992,jpn] 50-3141
- Development of pneumatic conveying technologies for snow. Kobayashi, T., [1995,jpn] 50-612
- Development of snow removal equipment for median strips. Inui, T., et al. [1992,jpn] 50-3143
- Device for clearing a soil surface of snow cover. Goriaev, V.E., et al. [1982,rus] 50-1657
- Device for clearing a soil surface of snow cover. Goriaev, V.E., et al. [1982,rus] 50-1656
- Device for loosening snow. Fedorov, V.D., et al. [1992,rus] 50-1909
- Device for the removal of snow and ice from road pavements. Vetter, V.I., et al. [1992,rus] 50-1934
- Engineers in Bosnia: an overview. Treleaven, D.L., [1996,eng] 50-5144
- Exhibition of snow removal equipment. Tokyo, 1988. [1988,jpn] 50-2288
- Hydraulic transport of snow; (4): snow overload detector for snow/water mixing tank. Murayama, K., et al. [1996,jpn] 50-4926
- Machine for removing snow from railroad tracks. Mokin, N.V., et al. [1992,rus] 50-1935
- Manual for highway winter anti-icing practices. Ketcham, S.A., et al. [1996,eng] 50-6060
- Operations management for urban snow removal and disposal. Campbell, J.F., et al. [1995,eng] 50-1107
- PennDOT responds to the challenges of January's blizzards and flooding. Chizmar, S., [1996,eng] 50-6102
- Review of dynamical studies on hydraulic transportation of snow. Umemura, T., [1996,jpn] 50-6731
- Rotary snow remover. Zalko, A.I., et al. [1992,rus] 50-1932
- Service evaluation of light de-icing and snowplowing equipment. Girardin, M., [1995,eng] 50-4037
- Snow and ice control. Minnesota. Office of the Legislative Auditor. [1995,eng] 50-3596
- Snow and ice removal apparatus. Stanger, T.P., [1995,eng] 50-3480
- Snow blowers. Kamimura, H., et al. [1992,jpn] 50-3135
- Snow in the cities—a history of America's urban response. McKelvey, B., [1995,eng] 50-1123
- Snow removal by a blower in a straight pipe. Kobayashi, T., et al. [1995,jpn] 50-611
- Snow-scoop with a tipping mechanism. Mannio, J., [1993,eng] 50-2231
- Snowplow. Emilov, A.B., et al. [1992,rus] 50-1928
- Some innovations in snow and ice control equipment. [1995,eng] 50-4156
- Technical development of snow removal and ice control machine. Kuriyama, H., [1995,jpn] 50-3510
- Technology assessment on systems for conquering and exploiting snow. [1987,jpn] 50-2289
- Tests on snowplows (continuation)—tests on improving the performance of snowplows. Hokkaido Development Bureau. [1995,jpn] 50-6740
- Thermal machine for clearing airport pavements of snow and ice. Mogutnov, A.A., [1992,rus] 50-1910
- Working tool for snow clearing. Gavrilov, I.U.M., et al. [1992,rus] 50-1908
- Snow retention**
- Anchoring of avalanche snow nets by exploded piles. Bouvet, P., et al. [1995,eng] 50-4679

Snow strength

- Avalanche countermeasure operations in the Maekura district. Takahashi, Y., et al. [1992,jpn] 50-3132
- Development of a small snow compressor and fracture strength of compacted snow columns. Miyazaki, N., et al. [1995,jpn] 50-989
- Device for snow retention. Khuzin, V.Kh., [1992,rus] 50-1927
- Effects of contour-line strip-cutting of trees on snowmelt runoff. Shimizu, T., et al. [1996,jpn] 50-3500
- Guidelines for avalanche barriers in the starting zone. BUWAL, Bundesamt für Umwelt, Wald und Landschaft, (Federal Office for Environment, Forest and Landscape). WSL, Eidgenössische Forschungsanstalt für Wald, Schnee und Landschaft (Federal Research Laboratory for Forest, Snow and Landscape). [1990,ger] 50-236
- Management of winter soil temperatures to control streambank erosion. Bohn, C., [1989,eng] 50-2464
- Modeling the flow of a powder snow avalanche over a retaining wall. Auge, A., et al. [1995,eng] 50-4676
- Possibilities of regional development by snow utilization. Taneda, M., [1988,jpn] 50-2280
- Resistance to snow damage by trees on slopes. Bojo, C., et al. [1995,jpn] 50-990
- Snow guard. Smeja, G.C., et al. [1995,eng] 50-3474
- Snow guards for metal roofs. Tobiasson, W., et al. [1996,eng] 50-6140
- Snow pressure measurements on snow net systems. Margreth, S., [1995,eng] 50-4677
- Surface modifications to reduce thaw degradation of permafrost. Zarling, J.P., et al. [1996,eng] 50-6111
- Snow roads**
- Compacted snow road. 1. Properties of snow. Eriksson, R., [1959,eng] 50-3853
- Design and analysis of a low speed drag plow for use in deep snow. Walsh, M.R., [1991,eng] 50-6198
- Temporary snow and ice pavement structures. Scher, R.L., [1996,eng] 50-6189
- Snow rubber friction**
- See [also]: Rubber snow friction
- Snow samplers**
- Apparatus for in situ measurement of CO₂ diffusion coefficient of snowpack. Kominami, Y., et al. [1996,jpn] 50-4924
- Deposit of atmospheric biphenyls in the Canadian Arctic. Gregor, D., et al. [1996,eng] 50-6521
- Recent works on snow sonde. Abe, O., [1996,jpn] 50-4937
- Techniques and equipment for measurement of snowcover, including stratigraphy. Adams, W.P., et al. [1974,eng] 50-3242
- Snow slides**
- 1996 avalanche cycle of intermountain West. Tremper, B., [1996,eng] 50-4761
- Avalanche damage at Bridal Veil, Utah. Griffith, R., [1996,eng] 50-4760
- Snow gliding measurements in subalpine forests and on alpine pastures. Höller, P., [1995,eng] 50-4673
- Snow guards for metal roofs. Tobiasson, W., et al. [1996,eng] 50-6140
- Urban snow disasters. Higashiura, M., [1988,jpn] 50-2047
- Snow stabilization**
- Guidelines for avalanche barriers in the starting zone. BUWAL, Bundesamt für Umwelt, Wald und Landschaft, (Federal Office for Environment, Forest and Landscape). WSL, Eidgenössische Forschungsanstalt für Wald, Schnee und Landschaft (Federal Research Laboratory for Forest, Snow and Landscape). [1990,ger] 50-236
- Snow guards for metal roofs. Tobiasson, W., et al. [1996,eng] 50-6140
- See [also]: Snow cover stability
- Snow stratigraphy**
- Automated measurements of snow temperature profiles in the Cairngorm mountains, Scotland. Purves, R.S., et al. [1995,eng] 50-2795
- Avalanche prediction for persistent snow slabs. Jamieson, J.B., [1995,eng] 50-3707
- Correlation of snow trafficability and physical properties. Part 1. Yong, R.N., et al. [1989,eng] 50-2602
- Effects of capillary discontinuities on water flow and water retention in layered snowcovers. Jordan, R., [1995,eng] 50-2472
- Recent works on snow sonde. Abe, O., [1996,jpn] 50-4937
- Snow and water chemistry of a headwater alpine basin, Urumqi River, Tian Shan, China. Liu, F.J., et al. [1995,eng] 50-2413
- Snow cover on winter sea ice of Amundsen and Ross seas. Sturm, M., et al. [1995,eng] 50-6505
- Snow stratigraphy and accumulation rate in the Lambert Glacier basin. Ren, J.W., et al. [1995,eng] 50-5640
- Snow studies at Maudheim. Schytt, V., [1958,eng] 50-6418
- Snow studies inland. Schytt, V., [1958,eng] 50-6419
- Techniques and equipment for measurement of snowcover, including stratigraphy. Adams, W.P., et al. [1974,eng] 50-3242
- Winter methane dynamics in a temperate peatland. Melloh, R.A., et al. [1996,eng] 50-6052
- Snow strength**
- Avalanche prediction for persistent snow slabs. Jamieson, J.B., [1995,eng] 50-3707
- Corn snow—today's skiing, tomorrow's meltwater. Colbeck, S.C., [1996,eng] 50-4758
- Correlation of snow trafficability and physical properties. Part 1. Yong, R.N., et al. [1989,eng] 50-2602
- Design of undersnow facilities for Byrd Station. Mellor, M., et al. [1962,eng] 50-3805

Snow structure

Snow surveys

- Determining the mechanical resistance of snow by the Pandalp penetrometer. Daudon, D., et al. [1995, fre] 50-4683
- Development of a small snow compressor and fracture strength of compacted snow columns. Miyazaki, N., et al. [1995, jpn] 50-989
- Effects of temperature on fracture of dry alpine snow. McClung, D.M., [1995, eng] 50-4688
- Formation and movement of avalanches. Moskalov, I.U.D., [1966, rus] 50-3833
- Methodology for predicting for winter conditions in the NATO Reference Mobility Model. Ahlvin, R.B., et al. [1995, eng] 50-48
- Modelling vehicle mobility over multi-layered deep snowcover. Irwin, G.J., et al. [1995, eng] 50-50
- Observations of snow deformation by a wheel. Richmond, P.W., [1995, eng] 50-49
- On the volume-viscous behavior of snow. Mahrenholtz, O., et al. [1995, eng] 50-2950
- Probabilistic evaluation of snow cover stability on mountain slopes. Chernous, P.A., [1995, eng] 50-4689
- Recent works on snow sonde. Abe, O., [1996, jpn] 50-4937
- Skier triggered slab avalanche release—some practical implications. Schweizer, J., et al. [1995, eng] 50-4687
- Snow structure**
See [also]: Snow cover structure
- Snow surface**
Albedo on snow surface in Patriot Hills, Antarctica. Shinohara, M., et al. [1995, eng] 50-4384
- Bidirectional reflectance measurements of two snow types. Taylor, S., et al. [1995, eng] 50-3113
- Calculating the heat transfer coefficient of dry snow. Brukhandia, V.L., et al. [1991, rus] 50-7
- Diel variations of H_2O_2 in Greenland: a discussion of the cause and effect relationship. Bales, R.C., et al. [1995, eng] 50-634
- Estimation of aerosol deposition to a snow surface. Sharma, M., et al. [1995, eng] 50-3011
- Ice sheet surface features between 80 and 90S, along 90W. Yoshikawa, K., [1995, eng] 50-4386
- Infrared remote sensing of snow and quartz surfaces. Wald, A.E., [1994, eng] 50-692
- Model for measuring PAH deposits on snow. Sharma, M., et al. [1995, eng] 50-3037
- Snow accumulation and transport dynamics on the Ross Ice Shelf. Braaten, D.A., [1994, eng] 50-2219
- Snow cover and microrelief. Fukuoka, Y., [1988, jpn] 50-2046
- Snow hardness variations in Patriot Hills. Harada, K., et al. [1995, eng] 50-4387
- See [also]: Glacier surfaces
- Snow surface temperature**
Intercomparison of snow retrieval algorithms by means of spaceborne microwave radiometry. Rott, H., et al. [1995, eng] 50-4176
- Mapping of winter surface conditions at Camp Grayling, Michigan. Haugen, R.K., et al. [1992, eng] 50-738
- Spatially distributed energy balance snowmelt model. Tarboton, D.G., et al. [1995, eng] 50-2407
- Surface temperature from ERS-1 ATSR infrared thermal satellite data in polar regions. Seave, J., et al. [1996, eng] 50-6568
- Ventilation experiments in a seasonal snow cover. Albert, M.R., et al. [1995, eng] 50-2397
- Snow survey tools**
Apparatus for in situ measurement of CO_2 diffusion coefficient of snowpack. Kominami, Y., et al. [1996, jpn] 50-4924
- Microwave permittivity of dry snow. Mätzler, C., [1996, eng] 50-3887
- Snow accumulation and transport dynamics on the Ross Ice Shelf. Braaten, D.A., [1994, eng] 50-2219
- Techniques and equipment for measurement of snowcover, including stratigraphy. Adams, W.P., et al. [1974, eng] 50-3242
- Snow surveys**
AFGWC snow analysis model. Hall, S.J., [1986, eng] 50-2469
- Algorithm for radiometric image mapping of global snow cover. Hall, D.K., et al. [1995, eng] 50-1809
- Analysis of observations of snow cover in the Western Caucasus Mountains. Pogorelov, A.V., et al. [1991, rus] 50-1
- Annual report 1995. National Snow and Ice Data Center. World Data Center-A for Glaciology. [1995, eng] 50-4604
- Application of DTM to extraction of snowcover information from NOAA/AVHRR image. Feng, X.Z., et al. [1995, chi] 50-3983
- Application of passive microwave retrieval algorithms to monitor global snow cover. Armstrong, R.L., et al. [1992, eng] 50-3562
- Application of SSM/I data for snow cover and climate research. Armstrong, R.L., [1995, eng] 50-4178
- Application of subspace method in snow recognition. Liu, Z.K., et al. [1990, chi] 50-6659
- Automated measurements of snow temperature profiles in the Cairngorm mountains, Scotland. Purves, R.S., et al. [1995, eng] 50-2795
- Background database of snow disaster in Nagqu area of Xizang. Sun, W.X., et al. [1995, chi] 50-3979
- Bibliography on the hydrology of the Himalaya-Karakoram region. Young, G.J., et al. [1996, eng] 50-5273
- Bidirectional reflectance measurements of two snow types. Taylor, S., et al. [1995, eng] 50-3113
- Biennial report 1993-1994. Alaska. University. Geophysical Institute, [1995, eng] 50-2450
- Canadian development and use of snow cover information from passive microwave satellite data. Goodison, B.E., et al. [1995, eng] 50-4177
- Characteristics of the snow cover of the eastern Pyrenees. Péjouan, H., [1995, fre] 50-2592
- Climatic and geographic patterns in snow density dynamics, northern Eurasia. Onuchin, A.A., et al. [1996, eng] 50-4342
- Climatic division of snow cover environments in Japan using the mesh climatic data. Ishizaka, M., [1995, jpn] 50-997
- Coherent observation operators for surface data assimilation with application to snow depth. Urban, B., [1996, eng] 50-3008
- Comparison between snow cover products derived from visible and microwave satellite observations. Basist, A., et al. [1996, eng] 50-3007
- Comparison of geostatistical methodologies used to estimate snow water equivalent. Carroll, S.S., et al. [1996, eng] 50-4409
- Cryospheric observing systems and data management. Barry, R.G., [1994, eng] 50-3415
- Detecting and monitoring snow cover variability. Barry, R.G., et al. [1995, eng] 50-3314
- Determination of snowcovered area by satellite SAR imagery. Seglenieks, F., et al. [1995, eng] 50-3106
- Development of field technology and methods for forecasting snowfall and snow cover. [1989, jpn] 50-2041
- Differences in the duration of snow cover on Scottish ski-slopes between mild and cold winters. Harrison, S.J., [1993, eng] 50-3014
- Digital terrain information and its application in Nagqu area of Xizang. Lu, A.X., et al. [1995, chi] 50-3985
- Distributed approach to modeling snowmelt runoff in alpine catchments. Bales, R., et al. [1992, eng] 50-3030
- Distributed snow process modeling: an image processing approach. Davis, R.E., et al. [1995, eng] 50-3108
- Distributed snow process modeling: an image processing approach. Davis, R.E., et al. [1995, eng] 50-2462
- Distributed snowmelt modeling using a clustering algorithm. Harrington, R.F., et al. [1995, eng] 50-2409
- Dynamic monitoring information system for snow of remote sensing imagery. Liu, Z.K., et al. [1990, chi] 50-6657
- Dynamic research by remote sensing on typical region in the Yellow River Valley. Tian, G.L., ed. [1990, chi] 50-6649
- Earth-gridded SSM/I data set for cryospheric studies and global change monitoring. Armstrong, R.L., et al. [1995, eng] 50-1963
- Effects of snowpack grain size on remote sensing of river basins. Josberger, E.G., et al. [1996, eng] 50-4302
- Empirical study on Nimbus-7 snow mass and Indian summer monsoon rainfall. Kripalani, R.H., et al. [1996, eng] 50-6226
- Establishment and application of DTM of the Qinghai-Xizang Plateau. Li, X., et al. [1995, chi] 50-3994
- Evaluation of SSMR satellite-derived snow depth using ground-based measurements. Tait, A., et al. [1996, eng] 50-4016
- Evolution of snow cover and avalanche activity in the Italian Alps during winter 1993-94. Lizzero, L., et al. [1994, ita] 50-1562
- Forecast of spring snowmelt runoff in the upper Yellow River. Lan, Y.C., et al. [1990, chi] 50-6652
- Fuzzy region segmentation of snow remote sensing imagery. Liu, Z.K., et al. [1990, chi] 50-6660
- Glaciers, snow and ice—dictionary of glaciology, snow and avalanche research in Switzerland. Ziehr, W., ed. [1993, ger] 50-3385
- Global identification of snowcover using SSM/I measurements. Grody, N.C., et al. [1996, eng] 50-2704
- Hydrologic bibliography of Switzerland for 1994. Sevruck, B., ed. et al. [1994, ger] 50-4596
- Improved fuzzy clustering algorithm for snow recognition. Liu, Z.K., et al. [1990, chi] 50-6658
- Information system for snowmelt runoff in Qinghai Province. Feng, X.Z., et al. [1990, chi] 50-6655
- Initial snow chemistry survey of the Mogollon Rim in Arizona. Barbaris, B., et al. [1996, eng] 50-6711
- Instructions for meteorological stations and posts, Vol.3, pt.1. Meteorological observations at stations. USSR State Committee on Hydrometeorology and Environmental Control, [1985, eng] 50-5074
- Intercomparison of snow retrieval algorithms by means of spaceborne microwave radiometry. Rott, H., et al. [1995, eng] 50-4176
- ISWRIS information system for runoff forecasting of the upper Yellow River. Wang, J., et al. [1990, chi] 50-6656
- Land surface studies and atmospheric effects by satellite microwave radiometry. Aschbacher, J., [1990, eng] 50-6691
- LANDSAT automated mapping of mountain snow cover. Rosenthal, W., et al. [1996, eng] 50-3312
- Long-term snow variations at Nagaoka, Japan. Nakamura, T., et al. [1996, eng] 50-4898
- Mapping alpine snow and ice using Landsat TM and SAR imagery at Wapta icefield. Brugman, M.M., et al. [1996, eng] 50-5545
- Mapping of winter surface conditions at Camp Grayling, Michigan. Haugen, R.K., et al. [1992, eng] 50-738
- Mapping snow cover during the BOREAS winter experiment. Hall, D.K., et al. [1995, eng] 50-3105
- Microwave remote sensing of snow. Koike, T., et al. [1992, eng] 50-3028
- Model of predicting snow disaster using NOAA/AVHRR data in Nagqu area of Xizang. Lu, A.X., et al. [1995, chi] 50-3987
- Model of snow disaster assessment using NOAA/AVHRR data in Nagqu area of Xizang. Feng, X.Z., et al. [1995, chi] 50-3988
- Modeling of snow reflectance in the visible and near infrared. Leroux, C., et al. [1995, fre] 50-4672
- Monitoring snow cover on the Tibetan Plateau using passive microwave satellite data. Robinson, D.A., et al. [1995, eng] 50-4180
- Multi-temporal microwave satellite observations of plains snowpacks. Wankiewicz, A., et al. [1992, eng] 50-3563
- NOAA satellite snow cover monitoring of the upper Yellow River. Chen, X.Z., et al. [1990, chi] 50-6653
- Observation guidelines and recording standards for weather, snowpack and avalanches. Canadian Avalanche Association, Revelstoke, British Columbia, [1995, eng] 50-852
- Organization of the river and flood program in the National Weather Service. Stallings, E.A., et al. [1995, eng] 50-1135
- Output design of GIS production of snow disaster monitoring and assessment system. Li, X., et al. [1995, chi] 50-3990
- Passive microwave remote sensing of snow: volume scattering in antarctic firn. Tsang, L., et al. [1995, eng] 50-4181
- Passive microwave snow research in the Canadian High Arctic. Gan, T.Y., [1996, eng] 50-5540
- Pixel-scale ground snow survey for passive microwave study of the arctic snow cover. Woo, M.K., et al. [1995, eng] 50-3110
- Proceedings of the 52nd annual Eastern Snow Conference, Toronto, Ontario, June 7-8, 1995. Eastern Snow Conference, [1995, eng] 50-3104
- Processing satellite images to determine snow cover depth. Pichugina, E.L., [1991, rus] 50-3
- Profession: cross country ski patrol. Ours, L., [1996, fre] 50-4870
- Radar survey of French Alps snow cover. Bernier, M., et al. [1996, fre] 50-5542
- Radiometric data and modeled snowpack conditions for Dye 2, Greenland. Mote, T.L., et al. [1996, eng] 50-4961
- Recent works on snow sonde. Abe, O., [1996, jpn] 50-4937
- Rocky Mountain snowmelt on talus slopes by radar satellite. Maxfield, A.W., [1996, eng] 50-5544
- Satellite snow monitoring and runoff forecasting for the Yellow River. Zeng, Q.Z., [1990, chi] 50-6650
- Size parameters of snow grains in scattering and emission models. Jin, Y.Q., [1995, eng] 50-4179
- Small basin modeling of snow water equivalence using binary regression tree methods. Elder, K., et al. [1995, eng] 50-2406
- Snow accumulation rate from synthesis of microwave and altimeter data. Davis, C.H., [1995, eng] 50-162
- Snow and ice research in Japan during the past 50 years. Nakamura, T., [1995, jpn] 50-606
- Snow cover in the mountainous regions. Yoshida, Y., [1988, jpn] 50-2048
- Snow hazard information system in Slovenia. Horvat, A., [1995, eng] 50-4653
- Snow in the Spanish Cordilleras. ERHIN Program. 1991/92. [1995, spa] 50-1691
- Snow mass in boreal forests derived from a modified passive microwave algorithm. Foster, J.L., et al. [1995, eng] 50-3718
- Snow monitoring from satellite data in Xizang. Feng, X.Z., et al. [1995, chi] 50-3986
- Snow monitoring in the United Kingdom using NOAA AVHRR imagery. Lucas, R.M., et al. [1994, eng] 50-167
- Snow recognition and classification using ISOMIX. Li, L.X., et al. [1994, eng] 50-3999
- Snow survey bulletin & water supply forecast, March 1, 1996. Yukon Territory, Canada. Indian and Northern Affairs. Water Resources Division, [1996, eng] 50-3710
- Snow survey bulletin & water supply forecast, May 1, 1996. Yukon Territory, Canada. Indian and Northern Affairs. Water Resources Division, [1996, eng] 50-4612
- Snow surveying in Canada: a perspective. Goodison, B.E., et al. [1987, eng] 50-4907
- Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995, eng] 50-2461
- Snow-mass intercomparisons in the boreal forests. Foster, J., et al. [1996, eng] 50-5837
- Snow-vegetation relations in the forest tundra of New Quebec, Hudson Bay. Payette, S., et al. [1973, fre] 50-2852
- Snowpack water equivalent statistic derived from an observer network. Wilks, D.S., et al. [1996, eng] 50-5199
- Some surveys of snow chemistry in the Tien Shan of Kirghizstan and Kazakhstan. Kattelmann, R., et al. [1995, eng] 50-2411
- Spatial analysis operation of background database of snow disaster. Sun, W.X., et al. [1995, chi] 50-3980
- Spatial and temporal variability of North American snow cover, 1971-1992. Brown, R.D., [1995, eng] 50-3112
- Spring snowpack anodically patterns and winter climatic variability. British Columbia, Canada. Moore, R.D., et al. [1996, eng] 50-3492
- SSM/I time series observations of Great Lakes ice and snow. Pilant, D., [1995, eng] 50-3107
- Statistical structure of the snow cover field in the Western Caucasus Mountains. Pogorelov, A.V., [1991, rus] 50-2
- Studies on prediction method of snowmelt runoff in the upper reaches of the Yellow River. Song, Q., [1990, chi] 50-6654
- Studies on the methods of extracting snow information from NOAA/AVHRR image. Li, W.J., et al. [1995, chi] 50-3982
- Study of extracting remote sensing information of snow disaster in Nagqu area of Xizang. Li, Z., et al. [1995, chi] 50-3981

Snow temperature

- Study of heavy snowfall in Tohoku District. [1989.jpn] 50-2040
- Study on estimating snow cover. [1983.jpn] 50-2042
- Study on snow disaster monitoring using remote sensing in Nagqu area of Xizang. Feng, X.Z., et al. [1995.chi] 50-3978
- Study on the database system of accumulated snow. Lu, A.X., et al. [1995.chi] 50-3993
- Synthetic analysis method of snow depth in Nagqu area of Xizang. Zeng, Q.Z., et al. [1995.chi] 50-3984
- Techniques and equipment for measurement of snowcover, including stratigraphy. Adams, W.P., et al. [1974.eng] 50-3242
- Topographical influence on Himalayan snow cover distribution. Singh, P., et al. [1995.eng] 50-4012
- Use of a GIS to develop a stratified snow survey in a mountainous agricultural landscape. Pierson, D., et al. [1995.eng] 50-3111
- Use of satellite data for river basin snow cover surveys. Krishna, A.P., [1996.eng] 50-4015
- Winter-spring snow cover distribution in the upper Yellow River. Chen, X.Z., et al. [1990.chi] 50-6651
- Yukon Territory snow survey bulletin & water supply forecast: April 1, 1996. Canada. Indian and Northern Affairs. Water Resources Division, [1996.eng] 50-4294
- Snow temperature**
- Automated measurements of snow temperature profiles in the Cairngorm mountains, Scotland. Purves, R.S., et al. [1995.eng] 50-2795
- Effects of temperature and density on snow cover stability of the Molodetzchnaya runway. Nazarov, V.D., [1992.rus] 50-146
- Effects of temperature on fracture of dry alpine snow. McClung, D.M., [1995.eng] 50-4688
- Electrification of blowing snow. Latham, J., et al. [1965.eng] 50-3947
- Microwave remote sensing of snow. Koike, T., et al. [1992.eng] 50-3028
- Passive microwave remote sensing of snow: volume scattering in antarctic firm. Tsang, L., et al. [1995.eng] 50-4181
- Permafrost and glaciers of Upper Engadin, Switzerland. Hölzle, M., [1994.ger] 50-2771
- Recent works on snow sonde. Abe, O., [1996.jpn] 50-4937
- Snow behaviour under compaction for the production of ice. Gaméda, S., et al. [1996.eng] 50-4047
- Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995.eng] 50-3129
- Temperature regime of artificially compacted snow of the Molodetzchnaya runway. Nazarov, V.D., [1992.rus] 50-147
- Test of the snow cover numerical model Crocus in avalanche forecasting. Mingo, L., [1995.eng] 50-4646
- Snow thermal properties**
- Advective-diffusive heat transfer in snow. Albert, M.R., [1995.eng] 50-945
- Air conditioning using snow thermal storage in aquifers. Umamiya, H., [1988.jpn] 50-2279
- Calculating the heat transfer coefficient of dry snow. Brukhanda, V.I., et al. [1991.rus] 50-7
- Geometry of heat and mass transfer in dry snow: a review of theory and experiment. Arons, E.M., et al. [1995.eng] 50-1401
- Heat transfer in a snow cover. Zviagin, V.V., et al. [1990.rus] 50-1614
- Mathematical model for calculating thermal conductivity of snow subject to metamorphism. Gavril'ev, R.I., [1996.eng] 50-6497
- Microstructure and thermal conductivity of a model snow cover. Sato, A., et al. [1995.jpn] 50-987
- Possibilities and problems in the realization of snow-storage air conditioning systems. Umamiya, T., [1988.jpn] 50-2278
- Possibility of using snow for home air conditioning. Nishioka, T., [1988.jpn] 50-2277
- Research on technology for conquering and exploiting snow. [1988.jpn] 50-2273
- Simulation of summer snowmelt on the Greenland ice sheet using a one-dimensional model. Rowe, C.M., et al. [1995.eng] 50-585
- Snow cover. Colbeck, S.C., [1996.eng] 50-4615
- Steady-state convection in porous media and snow metamorphism. Klever, N., [1984.ger] 50-3840
- Sub-surface melting in a seasonal snow cover. Koh, G., et al. [1995.eng] 50-1869
- Using the thermal properties of snow. Tsushima, K., [1988.jpn] 50-2274
- Ventilation experiments in a seasonal snow cover. Albert, M.R., et al. [1995.eng] 50-2397
- Snow trenches**
- Annual net balance of North Cascade glaciers, 1984-94. Pelto, M.S., [1996.eng] 50-4886
- Snow tunnels**
- Design of undersnow facilities for Byrd Station. Mellor, M., et al. [1962.eng] 50-3805
- Snow vehicles**
- Belt track for track-laying vehicles and snowmobiles. Wiesner, H.H., et al. [1991.eng] 50-2239
- Design and analysis of a low speed drag plow for use in deep snow. Walsh, M.R., [1991.eng] 50-6198
- Methodology for predicting for winter conditions in the NATO Reference Mobility Model. Ahlvin, R.B., et al. [1995.eng] 50-48
- Modelling vehicle mobility over multi-layered deep snowcover. Irwin, G.J., et al. [1995.eng] 50-50

- Observations of snow deformation by a wheel. Richmond, P.W., [1995.eng] 50-49
- Performance comparison of polecat and weasel tracked vehicles. Rula, A.A., [1958.eng] 50-3839
- Report of the Antarctic Traverse Workshop, 2-4 May 1994, Washington, DC. Blaisdell, G.L., [1994.eng] 50-4283
- Ribbon track for tracked vehicles and snowmobiles. Wiesner, H.H., et al. [1990.ger] 50-2500
- Self-propelled scooter for transporting and carrying uphill one or more persons on snow and/or ice. Bianco, N., [1993.eng] 50-2337
- Snow parameters for vehicle mobility modeling. Horrigan, T., et al. [1995.eng] 50-2708
- Snowmobile injuries in Kiruna, northern Sweden. Sundström, I., et al. [1994.eng] 50-602
- Use of snowmobiles. Sarraz-Bournet, P., [1996.fre] 50-4868
- Would a helmet law for snowmobile riders reduce head injuries. Björnstig, U., et al. [1994.eng] 50-603
- Snow water content**
- Characteristics of the spatial variability in the pollution of snow cover. Adamenko, V.N., et al. [1992.rus] 50-384
- Climatic division of snow cover environments in Japan using the mesh climatic data. Ishizaka, M., [1995.jpn] 50-997
- DEM corrected ERS-1 SAR data for snow monitoring. Guneriusen, T., et al. [1996.eng] 50-3149
- Distribution of snow cover in built-up areas (e.g., Labytnangi). Lukichev, V.F., [1985.rus] 50-250
- Effects of forest clearcutting on snow hydrology. Meng, F.R., et al. [1995.eng] 50-768
- Estimation of snowmelt volume using air temperature and wind speed. Hasebe, M., et al. [1995.eng] 50-1958
- Firn boundary as a high altitude ridge of the belt flow in mountain basins. Shcheglova, O.P., [1973.rus] 50-434
- Microwave remote sensing of snow. Koike, T., et al. [1992.eng] 50-3028
- Object-GAWSER: object-oriented Guelph all-weather storm-event runoff model. Phase 1: training manual. Hincley, J.A., Jr., [1996.eng] 50-4545
- Revisiting the degree-day method for snowmelt computations—discussion. Howard, C.D.D., [1996.eng] 50-4411
- Size parameters of snow grains in scattering and emission models. Jin, Y.Q., [1995.eng] 50-4179
- Snow behaviour under compaction for the production of ice. Gaméda, S., et al. [1996.eng] 50-4047
- Snow cover variations in a field catchment area. Shutoy, V.A., [1995.eng] 50-2729
- Snow distribution in Japan. Shitara, H., [1988.jpn] 50-2045
- Sub-surface melting in a seasonal snow cover. Koh, G., et al. [1995.eng] 50-1869
- Snow water equivalent**
- Annual net balance of North Cascade glaciers, 1984-94. Pelto, M.S., [1996.eng] 50-4886
- Application of a surface hydrology scheme to a watershed. Leung, L.R., et al. [1996.eng] 50-6056
- Application of SSM/I data for snow cover and climate research. Armstrong, R.L., [1995.eng] 50-4178
- ARNO rainfall-runoff model. Todini, E., [1996.eng] 50-3729
- Canadian development and use of snow cover information from passive microwave satellite data. Goodison, B.E., et al. [1995.eng] 50-4177
- Characteristics of runoff formation at the Kirgizskiy Alatau, Tien Shan. Aizen, V.B., et al. [1995.eng] 50-2435
- Climate, snow cover, glaciers, and runoff in the Tien Shan, central Asia. Aizen, V.B., et al. [1995.eng] 50-2538
- Colorado storms and avalanches of February 1995. McCarty, D., et al. [1995.eng] 50-1098
- Comparison of geostatistical methodologies used to estimate snow water equivalent. Carroll, S.S., et al. [1996.eng] 50-4409
- DEM corrected ERS-1 SAR data for snow monitoring in alpine regions. Guneriusen, T., et al. [1995.eng] 50-3716
- Detecting and monitoring snow cover variability. Barry, R.G., et al. [1995.eng] 50-3314
- Distributed snowmelt modeling using a clustering algorithm. Harrington, R.F., et al. [1995.eng] 50-2409
- Effects of avalanche snow redistribution on summer streamflow variations. De Scally, F.A., [1996.eng] 50-4333
- Effects of capillary discontinuities on water flow and water retention in layered snowcovers. Jordan, R., [1995.eng] 50-2472
- Evaluation of the Bridger Range winter cloud seeding experiment using control gages. Super, A.B., et al. [1983.eng] 50-4637
- Evaluation of the changes in regional wintertime deposition in Finland during 1976-1993. Sovieri, J., et al. [1995.eng] 50-4956
- Exploring the behaviour of microwaves in a snowpack using modelling techniques. Leconte, R., [1996.eng] 50-5539
- Ground-based radar for measuring snowfall rate. Houck, R.E., et al. [1995.eng] 50-3109
- Importance of the correction of precipitation measurements on the Tibetan Plateau. Ueno, K., et al. [1996.eng] 50-5775
- Incorporating airborne data into the spatial model used to estimate snow water equivalent. Carroll, S.S., et al. [1993.eng] 50-5146
- Interannual climate variability and snowpack in the western United States. Cayan, D.R., [1996.eng] 50-5529
- Intercomparison of snow retrieval algorithms by means of spaceborne microwave radiometry. Roth, H., et al. [1995.eng] 50-4176

- Modeling measurement errors when estimating snow water equivalent. Carroll, S.S., [1995.eng] 50-2605
- Multi-temporal microwave satellite observations of plains snowpacks. Wankiewicz, A., et al. [1992.eng] 50-3563
- Passive microwave snow research in the Canadian High Arctic. Gan, T.Y., [1996.eng] 50-5540
- Pixel-scale ground snow survey for passive microwave study of the arctic snow cover. Woo, M.K., et al. [1995.eng] 50-3110
- Precursory signals associated with the interannual variability of the Asian summer monsoon. Yang, S., et al. [1996.eng] 50-5530
- Radar survey of French Alps snow cover. Bernier, M., et al. [1996.fre] 50-5542
- Reflection of weather conditions in the chemistry of horizontal fog/cloud precipitation. Škvarenina, J., et al. [1991.eng] 50-3522
- Scaling of input data for macroscale hydrologic modeling. Kite, G.W., [1995.eng] 50-2544
- Simulation of soil moisture variations reflecting the hydrological cycle. Akincir, O.O., et al. [1996.eng] 50-5918
- Simulation of streamflow in a macroscale watershed using general circulation model data. Kite, G.W., et al. [1994.eng] 50-3820
- Small basin modeling of snow water equivalence using binary regression tree methods. Elder, K., et al. [1995.eng] 50-2406
- Snow cover distribution on a Wyoming glacier. Elder, K., [1995.eng] 50-2438
- Snow cover in the mountainous regions. Yoshida, Y., [1988.jpn] 50-2048
- Snow hydrological parameters for modelling river runoff. Kuchment, L.S., et al. [1996.eng] 50-5519
- Snow survey bulletin & water supply forecast, March 1, 1996, Yukon Territory, Canada. Indian and Northern Affairs. Water Resources Division, [1996.eng] 50-3710
- Snow survey bulletin & water supply forecast, May 1, 1996, Yukon Territory, Canada. Indian and Northern Affairs. Water Resources Division, [1996.eng] 50-4612
- Snow surveying in Canada: a perspective. Goodison, B.E., et al. [1987.eng] 50-4907
- Snowmelt modelling by combining air temperature and a distributed radiation index. Cazorzi, F., et al. [1996.eng] 50-5689
- Snowpack water equivalent statistic derived from an observer network. Wilks, D.S., et al. [1996.eng] 50-5199
- Spatial distribution of snow chemical load at the tundra-taiga transition. Pomeroy, J.W., et al. [1995.eng] 50-2412
- Spatially distributed energy balance snowmelt model. Tarboton, D.G., et al. [1995.eng] 50-2407
- Spring snowpack anomaly patterns and winter climatic variability. British Columbia, Canada. Moore, R.D., et al. [1996.eng] 50-3492
- Study of Alaskan snow loads. Stember, J.A., [1994.eng] 50-370
- Topographical influence on Himalayan snow cover distribution. Singh, P., et al. [1995.eng] 50-4012
- Use of a GIS to develop a stratified snow survey in a mountainous agricultural landscape. Pierson, D., et al. [1995.eng] 50-3111
- Use of remotely sensed data in the hydrological modelling of the upper Columbia watershed. Kite, G.W., [1996.eng] 50-5538
- Yukon Territory snow survey bulletin & water supply forecast: April 1, 1996. Canada. Indian and Northern Affairs. Water Resources Division, [1996.eng] 50-4294
- Snow wood friction**
- See [also]: Wood snow friction
- Snowdrifts**
- Afforestation control of disastrous snow drifting on rugged terrains in Xinjiang. Hu, R.J., et al. [1994.eng] 50-4000
- Contrast between natural and simulated snowdrift experiments. Naaim-Bouvet, F., [1995.eng] 50-1063
- Cost-effective snow fence usage—D.I.M.E. Baker, H.A., et al. [1995.eng] 50-3116
- Drifted snow affects momentum exchange over sea ice. Andreas, E.L., et al. [1994.eng] 50-2220
- Limits of wind-tunnel modeling of snow accumulations. Naaim-Bouvet, F., [1995.eng] 50-4667
- Modeling the spatial distribution of wind-transported snow in the ELISA system. Mases, M., et al. [1995.fre] 50-4647
- Physically based model of the form drag associated with sagrugi. Andreas, E.L., [1995.eng] 50-237
- Scaling snowdrift development rate. Lever, J.H., et al. [1995.eng] 50-3114
- Scaling snowdrift development rate. Lever, J.H., et al. [1995.eng] 50-6047
- SNOTAMS: Advisories on airport snow and ice conditions. Hamm, J., [1996.eng] 50-3685
- Snow hardness variations in Patriot Hills. Harada, K., et al. [1995.eng] 50-4387
- Snow-drift modelling and control. Ring, S.L., [1991.eng] 50-4906
- Study of Alaskan snow loads. Stember, J.A., [1994.eng] 50-370
- Wind slabs: new data. Duclos, A., [1995.fre] 50-2585
- Wind tunnel experiments on snowbreaks for Hokkaido highways. Sasaki, M., et al. [1995.jpn] 50-6798
- Snowfall**
- Accuracy of Tretjakov precipitation gauge: result of WMO intercomparison. Yang, D.Q., et al. [1995.eng] 50-3115

Snowflakes

Snowmelt

- Accuracy of Tetryakov precipitation gauge: result of WMO intercomparison. Yang, D.Q., et al. [1995,eng] 50-6044
- Acid precipitation in Hokkaido (Part 2). Tani, A., et al. [1995,jpn] 50-6739
- Aerial component of the soil-formation substrate in the southern part of the Maritime Territory. Elpatovskii, P.V., et al. [1995,eng] 50-3876
- AFGWC snow analysis model. Hall, S.J., [1986,eng] 50-2469
- Albedo of forest with crown snow. Yamazaki, T., et al. [1996,jpn] 50-3501
- Assessing the hazard of too much or too little snow in the pastoral regions of China. Gu, Z.W., et al. [1995,chi] 50-3976
- Atmospheric observing systems and their data management support structure. Stirling, L.M., [1994,eng] 50-3414
- Canadian Atlantic Storms Program: progress and plans of the meteorological component. Stewart, R.E., [1991,eng] 50-4416
- Characteristics of the snow cover of the eastern Pyrenees. Péjouan, H., [1995,fre] 50-2592
- Characteristics of winters in a high mountain region climate in a period of new climatic norms. Kveták, S., et al. [1991,rus] 50-3521
- Chemical composition of acid snowfall in northern part of Hokkaido. Satoh, F., et al. [1996,jpn] 50-6727
- Climate change and GCM simulation of water resources from mountain snowpack. McGinnis, D.L., [1994,eng] 50-6690
- Climatic trends in the Colorado-Big Thompson Project area. U.S. Bureau of Reclamation. Denver Office, Denver, CO, [1994,eng] 50-5007
- Climatological analysis of the snowstorm damage in Xizang. Lin, Z.Y., [1992,chi] 50-1496
- Colorado storm and avalanches of February 1995. McCarty, D., et al. [1995,eng] 50-1098
- Comparison between neural network and statistical snowfall prediction methods. McGinnis, D.L., [1994,eng] 50-4356
- Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996,rus] 50-6382
- Consistent treatment of the evaporation of rain and snow for use in large-scale models. Gregory, D., [1995,eng] 50-353
- Convergence band clouds along the west coast of Hokkaido. Kobayashi, F., et al. [1993,eng] 50-6040
- Countermeasures in the snow belt. Okada, H., [1995,jpn] 50-993
- Current conditions and countermeasures in the snow belt. [1985,jpn] 50-2036
- Current conditions and countermeasures in the snow belt. [1988,jpn] 50-2037
- Current conditions and countermeasures in the snow belt. [1991,jpn] 50-2038
- Data on the mass balance of Bashkar glacier in the Caucasus. Koronin, I.N., [1973,rus] 50-430
- Deposit of atmospheric biphenyls in the Canadian Arctic. Gregor, D., et al. [1996,eng] 50-6521
- Deposition of semivolatile organic chemicals by snow. Franz, T.P., Jr., [1994,eng] 50-372
- Development of field technology and methods for forecasting snowfall and snow cover. [1989,jpn] 50-2041
- Differences in the duration of snow cover on Scottish ski-slopes between mild and cold winters. Harrison, S.J., [1993,eng] 50-3014
- Dual wavelength radar observations of precipitation clouds. Iwanami, K., [1995,jpn] 50-607
- Encyclopedia of climate and weather. [1996,eng] 50-4973
- Energy saving characteristics of new type road-heating system. Hokari, K., et al. [1996,eng] 50-5400
- Evaluation of the Bridger Range winter cloud seeding experiment using control gages. Super, A.B., et al. [1983,eng] 50-4637
- Evaluation of the changes in regional wintertime deposition in Finland during 1976-1993. Sovieri, J., et al. [1995,eng] 50-4956
- Explicit cloud physics parameterization for operational numerical weather prediction. Schultz, P., [1995,eng] 50-1529
- Flow patterns conducive to Wyoming mountain heavy snow. Darrow, M.A., [1995,eng] 50-6685
- Forecasting avalanche flow during a snowfall using a weighted value method. Sezin, V.M., et al. [1991,rus] 50-13
- Genotoxicity of snow in the Montreal metropolitan area. White, P.A., et al. [1995,eng] 50-1567
- Ground-based radar for measuring snowfall rate. Houck, R.E., et al. [1995,eng] 50-3109
- Heavy snowfalls around Sapporo the winter of 1995/1996. Kanemura, N., et al. [1996,jpn] 50-4929
- Horizontal distribution of snowfall inland on Hokkaido. Lee, C.W., et al. [1972,jpn] 50-5791
- House construction in deep snow regions. Ujie, T., [1988,jpn] 50-2052
- How AgI aerosol dispersion may effect cloud seeding detection. Warburton, J.A., et al. [1995,eng] 50-347
- Ice cloud microphysics in a general circulation model. pt.1. Fowler, L.D., et al. [1996,eng] 50-5015
- Ice cloud microphysics in a general circulation model. pt.3. Fowler, L.D., et al. [1996,eng] 50-5017
- Importance of the correction of precipitation measurements on the Tibetan Plateau. Ueno, K., et al. [1996,eng] 50-5775
- Japanese and snow. Yoshino, M., [1988,jpn] 50-2044
- Large eddy simulation of the turbulent flow in a marine convective boundary layer with snow. Rao, G.S., et al. [1996,eng] 50-3683
- Manganese and other trace elements in urban snow near an expressway. Loranger, S., et al. [1996,eng] 50-5776
- Mesoscale precipitation structure in winter storms. Ramamurthy, M.K., et al. [1991,eng] 50-4417
- Meteorological and snow cover information disseminated by Météo-France. Pahaut, E., [1995,fre] 50-2589
- Modeling winter storms over Arizona. Vol.2: microphysics model. Mathews, D.A., [1995,eng] 50-2799
- Modeling winter storms over Arizona. Vol.3: local-scale model. Medina, J.G., [1995,eng] 50-2800
- Modeling winter storms over Arizona. Final report—Volume I. Mathews, D.A., et al. [1995,eng] 50-2798
- Numerical simulation of land-breeze-induced snowbands along the western shore of Lake Michigan. Ballentine, R.J., [1982,eng] 50-3648
- Object-GAWSER: object-oriented Guelph all-weather storm-event runoff model. Phase 1: training manual. Hinckley, J.A., Jr., [1996,eng] 50-4545
- Observation of snowfall and airflow over a low mountain barrier. Nakai, S., et al. [1995,eng] 50-341
- On favorable and unfavorable properties of continental climates for glaciation. Tronov, M.V., [1973,rus] 50-422
- On the snowfall at Aomori City due to orographic convergent winds. Rikishi, K., et al. [1995,jpn] 50-1170
- Permafrost along the Xining-Zhangye Highway. Wang, S.L., et al. [1995,chi] 50-5628
- Precipitation parameters in natural obscuration. Hogan, A.W., [1990,eng] 50-734
- Precipitation sensitivity to cloud microphysical parameters. Liu, Y.Q., et al. [1996,eng] 50-4353
- Precipitation, snow conditions and air temperature in Austria in the period 1981-1990. [1994,ger] 50-4266
- Promotion of industry in sparsely populated areas of heavy snow in Ishikawa Prefecture. Gomi, T., ed. et al. [1984,jpn] 50-2035
- Radar echoes from winter monsoon clouds in Hokkaido. Kobayashi, F., et al. [1992,eng] 50-6645
- Radar image tracking and its use in a short-term snowfall prediction system. Neill, P.P., et al. [1993,eng] 50-5248
- Record winter snowfall of 1994-95 in U.S. West. Graf, D., et al. [1996,eng] 50-4155
- Saharan dust recorded in Swiss alpine snow cover. Schwikowski, M., et al. [1995,eng] 50-778
- Significance of social trends and snow cover. Oishi, T., [1988,jpn] 50-2050
- SNOTAMS: Advisories on airport snow and ice conditions. Hamm, J., [1996,eng] 50-3685
- Snow and ice research in Japan during the past 50 years. Nakamura, T., [1995,jpn] 50-606
- Snow and living conditions. Yoshino, M., ed. [1988,jpn] 50-2043
- Snow cover in the Great Plains as an indicator of climate change. Hughes, M.G., [1994,eng] 50-679
- Snow distribution in Japan. Shiota, H., [1988,jpn] 50-2045
- Snow in the Spanish Cordilleras. ERHIN Program. 1991/92. [1995,spa] 50-1691
- Snow records in Nagaoka, 1913-1992. [1993,eng] 50-488
- Snowfall distribution on the seaside of Hokkaido, Japan. Tachibana, Y., [1995,eng] 50-342
- Snowfall generated by surface topographic effects upon wind direction. Wesley, D.A., et al. [1995,eng] 50-1079
- Snowfall intensity climatologies within the contiguous United States. Ryerson, C.C., [1991,eng] 50-763
- Software for snow data and avalanche forecasting. Dumas, J.L., et al. [1996,fre] 50-4964
- Spatial and temporal distribution of storm precipitation in southwestern British Columbia. Loukas, A., et al. [1996,eng] 50-2603
- Structure and evolution of winter cyclones in the central United States and their effects on the distribution of precipitation. Part II: arctic fronts. Wang, P.Y., et al. [1995,eng] 50-1565
- Study of heavy snowfall in Tohoku District. [1989,jpn] 50-2040
- Study on estimating snow cover. [1983,jpn] 50-2042
- Synoptic approach to forecasting lake-effect snowfall. Ellis, A.W., et al. [1996,eng] 50-6062
- Technique for nowcasting hourly snowfall. Chappell, C.F., et al. [1991,eng] 50-3262
- Technology assessment on systems for conquering and exploiting snow. [1987,jpn] 50-2289
- Temporal characteristics of Pennsylvania snowfall, 1950-1951 through 1989-1990. Acker, J.C., et al. [1995,eng] 50-970
- Trends of the times related to snow. Yagasaki, T., [1988,jpn] 50-2049
- Urban snow disasters. Higashiura, M., [1988,jpn] 50-2047
- Warning device for precipitation. Romanov, E.V., et al. [1992,rus] 50-1906
- Was it snowing snowballs? Bartlett, A.A., [1996,eng] 50-5941
- Weather and climate of a high mountain pass in the Colorado Rockies. Judson, A., [1965,eng] 50-5751
- Westside Avalanche Network. Total snow. Summary by region. Tremper, B., [1996,eng] 50-5928
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995,eng] 50-3127
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995,eng] 50-4610
- Winter of 1994-95 in France. Météo-France, [1995,fre] 50-2588
- Characteristics of the aggregation of needle snow crystals. Kajikawa, M., [1995,jpn] 50-3509
- Effect of breakup of melting snowflakes on the resulting size distribution of raindrops. Fujiyoshi, Y., et al. [1996,eng] 50-6724
- Experimental formula of falling velocity of snow crystals. Kajikawa, M., [1975,eng] 50-3883
- Fall velocity of snowflakes. Justo, J.E., et al. [1971,eng] 50-3884
- How to paint a snowflake. Benko, J.J., [1995,eng] 50-6205
- Lidar detection of the transition from snowflakes to rain. Sassen, K., et al. [1996,eng] 50-5282
- Measurement of falling velocity of rimed snowflakes. Ishizaka, M., [1995,jpn] 50-1171
- New look at the melting layer. Drummond, F.J., et al. [1996,eng] 50-4145
- Precipitation gauge. Weydert, M., et al. [1990,ger] 50-3384
- Precipitation parameters in natural obscuration. Hogan, A.W., [1990,eng] 50-734
- Simulation of wet-snow accretion by axial growth on a transmission line conductor. Poots, G., et al. [1995,eng] 50-2349
- Study of snowflakes in antarctic clouds. Lachlan-Cope, T., [1996,eng] 50-4572
- Submesoscale variation in snow-induced obscuration. Hogan, A.W., [1991,eng] 50-762
- Submillimeter wave attenuation in falling snow. Suzuki, M., et al. [1979,jpn] 50-3940
- Variations on the Schaeffer replication technique for snowflakes. Benko, J.J., [1995,eng] 50-3613
- Snowmelt**
- A hydrochemical model for seasonally snow-covered alpine watersheds. Wolford, R.A., et al. [1996,eng] 50-4237
- AC breakdown process of snow sample simulating capped snow on insulator strings. Higashiyama, Y., et al. [1996,eng] 50-5383
- Air conditioning using snow thermal storage in aquifers. Umekiya, H., [1988,jpn] 50-2279
- Albedo of dirty snow during conditions of melt. Conway, H., et al. [1996,eng] 50-5969
- Alternative road construction for stormwater management in cold climates. Stenmark, C., [1995,eng] 50-2532
- Analysis of long term sulfate and nitrate budgets in a Rocky Mountain basin. Baron, J.S., et al. [1995,eng] 50-2417
- Analyzing the composition of ecosystems of land in the Noril'sk industrial region. Igamberdiev, V.M., et al. [1994,rus] 50-277
- Application of a heat balance method to long-term snowmelt runoff analysis. Kurashima, E., et al. [1996,jpn] 50-4927
- Application of a water hydrology scheme to a watershed. Leung, L.R., et al. [1996,eng] 50-6056
- Application of subspace method in snow recognition. Liu, Z.K., et al. [1990,chi] 50-6659
- ARNO rainfall-runoff model. Todini, E., [1996,eng] 50-3729
- Basic study of pyroclastic flow on a snow-covered slope. Miura, A., et al. [1994,jpn] 50-2836
- Case studies of geoprocesses and environmental change in mountains of northern Sweden. Rapp, A., [1995,eng] 50-4187
- Changes in trace element speciation in Kola north surface waters during snow melt. Rodushkin, I.V., et al. [1995,eng] 50-4080
- Channel erosion during flooding of alpine streams. Becht, M., [1996,ger] 50-5251
- Characteristics of runoff formation at the Kirgizskiy Alaoto. Tien Shan. Aizen, V.B., et al. [1995,eng] 50-2435
- Characteristics of water quality in a forest river during the snow melting period. Tachibana, H., et al. [1994,eng] 50-4222
- Characterizing multi-temporal alpine snowmelt patterns for ecological inferences. Allen, T.R., et al. [1993,eng] 50-1447
- Chaudière Island proposed snow dumping facility: an environmental appraisal. Lopez, K., et al. [1981,eng] 50-1200
- Chemical and isotopic tracers of snowmelt flowpaths in a subalpine watershed. Miller, E.K., et al. [1995,eng] 50-2427
- Chemistry of meltwater from Mount Xixia Bangma. Zhang, S., et al. [1982,chi] 50-6601
- Climate change and snow-cover duration in the Australian Alps. Whetton, P.H., et al. [1996,eng] 50-4751
- Climate change and water resources in Vuoksi watershed. Vehviläinen, B., et al. [1994,eng] 50-3195
- Climate change and water resources of watersheds in the Sierra Nevada. Pupacko, A., et al. [1992,eng] 50-3031
- Climate change impacts on snow cover: modelling case studies in Switzerland and the French Western Alps. Baumgartner, M.F., et al. [1995,eng] 50-1013
- Climate change in mountain environments. Willis, I., et al. [1995,eng] 50-1522
- Climate change, hydrology, and channel morphology of the Gunnison River. Parker, R.S., et al. [1992,eng] 50-3032
- Climate, snow cover, glaciers, and runoff in the Tien Shan, central Asia. Aizen, V.B., et al. [1995,eng] 50-2538
- Climatic influences on Chinese water resources. Shi, Y.F., et al. [1995,eng] 50-4231
- Climatic trends in the Colorado-Big Thompson Project area. U.S. Bureau of Reclamation. Denver Office, Denver, CO, [1994,eng] 50-5007
- Clouds and snowmelt on the North Slope of Alaska. Zhang, T., et al. [1996,eng] 50-5284
- Cold climate hydrometeorology. Upadhyay, D.S., [1995,eng] 50-5508
- Comment on paper by Schaefer et al. Davies, T.D., et al. [1996,eng] 50-3647
- Snowflakes**
- Backscattering through the melting layer of precipitation. Russchenberg, H.W.J., et al. [1996,eng] 50-2699

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- Comments on paper by Dey et al. Ropelewski, C.F., et al. [1984,eng] 50-4916
- Consumption of nitrogen compound from snowpack by microbiological activity. Suzuki, K., et al. [1996,jpn] 50-6728
- Contribution to the hydrological and hydrochemical response of mountain basins. Babiaková, G., et al. [1994,eng] 50-3670
- Controls of canopy structure on snowmelt rates in the boreal forest. Metcalfe, R.A., et al. [1995,eng] 50-3130
- Decline of fauna in small streams in the Swedish mountain range. Olofsson, E., et al. [1995,eng] 50-4078
- DEM corrected ERS-1 SAR data for snow monitoring in alpine regions. Guneriusson, T., et al. [1995,eng] 50-3716
- Deposition of semivolatile organic chemicals by snow. Franz, T.P., Jr. [1994,eng] 50-372
- Detecting and monitoring snow cover variability. Barry, R.G., et al. [1995,eng] 50-3314
- Determination of snowmelt factor in the Himalayan region. Singh, P., et al. [1996,eng] 50-5705
- Development and stability of preferential flow paths in a layered snowpack. Schneebeli, M., [1995,eng] 50-2402
- Discharge and fluvial sediment transport in a semi-arid Andean catchment. Barsch, D., et al. [1994,eng] 50-1544
- Distributed approach to modeling snowmelt runoff in alpine catchments. Bales, R., et al. [1992,eng] 50-3030
- Distributed snow process modeling: an image processing approach. Davis, R.E., et al. [1995,eng] 50-3108
- Distributed snow process modelling: an image processing approach. Davis, R.E., et al. [1995,eng] 50-2462
- Distributed snowmelt modeling using a clustering algorithm. Harrington, R.F., et al. [1995,eng] 50-2409
- Dynamic monitoring information system for snow of remote sensing imagery. Liu, Z.K., et al. [1990,chi] 50-6657
- Dynamic research by remote sensing on typical region in the Yellow River Valley. Tian, G.L., ed. [1990,chi] 50-6649
- Ecophysiology of a snow-bed moss during snowmelt. Woolgrove, C.E., et al. [1996,eng] 50-6748
- Effect of climate change on hydrologic regime of two climatically different watersheds. Loukas, A., et al. [1996,eng] 50-6100
- Effect of snow hydrology on glacial runoff. Fountain, A.G., [1996,eng] 50-6084
- Effect of the geographic environment on the occurrence of surface waters from a terraced tundra plain. Szczepanik, W., [1989,pol] 50-2918
- Effects of acidification on plankton biomass in high mountain lakes. Engle, D., et al. [1995,eng] 50-2149
- Effects of avalanche snow redistribution on summer streamflow variations. de Scally, F.A., [1996,eng] 50-4333
- Effects of capillary discontinuities on water flow and water retention in layered snowcovers. Jordan, R., [1995,eng] 50-2472
- Effects of climate change on water supplies in mountainous snowmelt regions. Rango, A., [1995,eng] 50-6617
- Effects of contour-line strip-cutting of trees on snowmelt runoff. Shimizu, T., et al. [1996,jpn] 50-3500
- Effects of forest clearcutting on snow hydrology. Meng, F.R., et al. [1995,eng] 50-768
- Energy balance and hydrological processes in an arctic watershed. Hinzman, L.D., et al. [1996,eng] 50-4844
- Energy—water—mass balance and hydrological discharge. Kang, E.S., [1994,eng] 50-5576
- Eruption-triggered debris flow on snow-clad volcanoes. Pierson, T.C., [1995,eng] 50-1655
- Estimating snowmelt runoff erosion indices for Canada. Hayhoe, H.N., et al. [1995,eng] 50-967
- Estimating soil temperatures and frost in the lake effect snow-belt region. Michigan, USA. Isard, S.A., et al. [1995,eng] 50-1140
- Estimation of climate change effect on the runoff: catchment-scale application of SOIL-model. Roos, J., et al. [1994,eng] 50-3194
- Estimation of snowmelt volume using air temperature and wind speed. Hasebe, M., et al. [1995,eng] 50-1958
- Evidence of paleoclimatic snow melt in lacustrine mountain deposits. Norris, R.D., et al. [1996,eng] 50-5082
- Evolution of factors affecting gas transmissivity of snow in the boreal forest. Hardy, J.P., et al. [1995,eng] 50-2398
- Flow and freezing boundary conditions for snow-melt infiltration into a frozen soil. Tao, Y.X., et al. [1993,eng] 50-4550
- Flow-finger continuity in serial thick-sections in a melting Sierran snowpack. McGurk, B.J., et al. [1995,eng] 50-2401
- Fluvial morphology and streamflow on Deception Island, Antarctica. Inbar, M., [1995,eng] 50-4190
- Fluvial sediment transfer in the Central Alps. Höfner, T., [1993,ger] 50-3335
- Forecast of spring snowmelt runoff in the upper Yellow River. Lan, Y.C., et al. [1990,chi] 50-6652
- Fuzzy region segmentation of snow remote sensing imagery. Liu, Z.K., et al. [1990,chi] 50-6660
- Glacial-hydrological studies of the Syr Darya basin. Kamalov, B.A., [1973,rus] 50-426
- Grain-scale mechanisms influencing the elution of ions from snow. Cragin, J.H., et al. [1996,eng] 50-1975
- Heat balance study of melting coefficient. Yamazaki, T., [1995,jpn] 50-1172
- Hydrochemical processes during snowmelt in a subalpine watershed, Colorado, USA. Peters, N.E., et al. [1995,eng] 50-2423
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995,eng] 50-3125
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995,eng] 50-6043
- Hydrochemical study of snow meltwater and snow cover. Suzuki, K., [1995,eng] 50-2404
- Hydrogeochemistry of Fraser River, British Columbia. Cameron, E.M., [1996,eng] 50-5815
- Hydrologic pathways in an alpine watershed. Mast, M.A., et al. [1995,eng] 50-2418
- Hydrological effects of hypothetical climate change in the East River basin, Colorado, USA. McCabe, G.J., Jr., et al. [1995,eng] 50-740
- Hydrological modelling of watershed snowmelt runoff. Bathurst, J.C., et al. [1996,eng] 50-3728
- Hydrological processes contributing to nitrogen leaching. Lepistö, A., [1996,eng] 50-5599
- Hydrometeorological aspects of flood hazards in Canada. Lawford, R.G., et al. [1995,eng] 50-1853
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995,eng] 50-3123
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995,eng] 50-6046
- Impacts of climate variability and change on Canadian wetlands. Woo, M.K., [1992,eng] 50-4805
- Improved fuzzy clustering algorithm for snow recognition. Liu, Z.K., et al. [1990,chi] 50-6658
- Inexpensive water collectors for study of surface water acidification during snowmelt. Gaskin, G.J., et al. [1995,eng] 50-1569
- Infiltration of snowmelt and heat transfer into frozen soil. Zhao, L.T., et al. [1996,eng] 50-6480
- Information system for snowmelt runoff in Qinghai Province. Feng, X.Z., et al. [1990,chi] 50-6655
- Integrated approach to modelling hydrology and water quality in glacierized catchments. Richards, K.S., et al. [1996,eng] 50-6083
- Investigation of proposed snow dump facility. Gore & Storrie Limited, Ottawa, Ontario, [1983,eng] 50-1197
- Ion chemistry controls for a Chinese river. Williams, M.W., et al. [1995,eng] 50-2604
- Ion flux through a shallow snowpack: effects of initial conditions and melt sequences. Davis, R.E., et al. [1995,eng] 50-2405
- Isotopic analysis of groundwater in the Taklimakan Desert. Ushiki, H., et al. [1991,jpn] 50-1435
- Isotopic and ionic variations in glacier river water during three contrasting ablation seasons. Theakstone, W.H., et al. [1996,eng] 50-6085
- Isotopic tracers for investigating hydrological processes. Cooper, L.W., et al. [1996,eng] 50-4846
- Isotopic tracing of nitrate sources in snowmelt runoff. Kendall, C., et al. [1995,eng] 50-2426
- ISWRS information system for runoff forecasting of the upper Yellow River. Wang, J., et al. [1990,chi] 50-6656
- Joint probability analysis for design storm evaluation. Kaur, S., et al. [1993,eng] 50-233
- Lake acidification during mountain snowmelt. Stoddard, J.L., [1995,eng] 50-4076
- Method of controlling spring snow thawing on slopes. Feodorov, L., [1993,eng] 50-2238
- Modeling the effects of climate change, air pollutants and land use on freshwater ecosystems: summary. Kauppi, L., et al. [1994,eng] 50-3192
- Modeling the effects of climatic change on phosphorus transport from a drainage basin. Bilealidin, A., et al. [1994,eng] 50-3199
- Modelling the redistribution of runoff caused by global warming. Martinec, J., et al. [1994,eng] 50-5202
- Nitrate transport in snowmelt in the Green Mountains, northern Vermont. Daly, D.M., [1995,eng] 50-3128
- Nitrogen deposition and release in alpine watersheds, Loch Vale, Colorado, USA. Campbell, D.H., et al. [1995,eng] 50-2416
- Nivation in the High Tatras, Poland. Rączkowska, Z., [1995,eng] 50-4193
- NOAA satellite snow cover monitoring of the upper Yellow River. Chen, X.Z., et al. [1990,chi] 50-6653
- Object-GAWSER: object-oriented Guelph all-weather storm-event runoff model. Phase 1: training manual. Hincley, J.A., Jr., [1996,eng] 50-4545
- Organic carbon variations in stream waters during snowmelt. Boyer, E.W., et al. [1995,eng] 50-2422
- Paleogeographic significance of Norwegian block field periglacial processes. Sellier, D., [1995,fre] 50-4878
- Periodic water saturation of ice wedges: results of an oxygen-18 and deuterium study. Lauriol, B., et al. [1995,fre] 50-667
- Pesticide degradation in an arctic lake and watershed. Falconer, R.L.M., et al. [1995,eng] 50-1131
- Plant nutrient runoff in Norwegian watersheds. Haraldsen, T.K., et al. [1995,eng] 50-741
- Possibilities of regional development by snow utilization. Taneda, M., [1988,jpn] 50-2280
- Prediction of slushflow hazard—research project in Rana, Norway. Hestnes, E., et al. [1995,eng] 50-404
- Preliminary considerations for runoff modelling in GCMS. Versegny, D., [1994,eng] 50-5701
- Proceedings of the 52nd annual Eastern Snow Conference, Toronto, Ontario, June 7-8, 1995. Eastern Snow Conference, [1995,eng] 50-3104
- Proceedings. International Symposium on Biogeochemistry of Seasonally Snow-covered Catchments. Boulder, CO, July 1-14, 1995, [1995,eng] 50-2391
- Processes controlling the chemistry of two snowmelt-dominated streams in the Rocky Mountains. Campbell, D.H., et al. [1995,eng] 50-2545
- Purification kit for potabilizing meltwater. Gopal, R., et al. [1991,eng] 50-3402
- Radar measurements of melt zones on the Greenland ice sheet. Jezek, K.C., et al. [1994,eng] 50-4804
- Radiative characteristics in forest during snowmelt season. Nakabayashi, H., et al. [1996,jpn] 50-4936
- Radiometric data and modeled snowpack conditions for Dye 2, Greenland. Mote, T.L., et al. [1996,eng] 50-4961
- Reconstructed runoff from the high arctic basin Bayvela based on mass-balance measurements. Hagen, J.O., et al. [1995,eng] 50-4013
- Regional snow and water balance models. Xu, C.Y., et al. [1996,eng] 50-5835
- Relation of snowpack chemistry to streamwater composition. Shanley, J.B., et al. [1995,eng] 50-2425
- Release of major ions and hydrogen peroxide from homogeneous, melting snow. Herrmann, R., et al. [1995,eng] 50-4014
- Remote sensing in hydrology and water management. Haefer, H., et al. [1992,eng] 50-621
- Research on technology for conquering and exploiting snow. [1988,jpn] 50-2273
- Response of snowmelt hydrology to climate change. Brubaker, K.L., et al. [1996,eng] 50-6614
- Review of design storm and flood studies for Salal Dam in Chenab basin. Rao, P.R., et al. [1993,eng] 50-234
- Revisiting the degree-day method for snowmelt computations—discussion. Howard, C.D.D., [1996,eng] 50-4411
- Revisiting the degree-day method for snowmelt computations. Rango, A., et al. [1995,eng] 50-1653
- RIVER3: simulation of river discharge and sediment transport. Syvitski, J.P.M., et al. [1995,eng] 50-3597
- Rock breakdown during spring thaw in Spitsbergen. Odgård, R.S., et al. [1995,eng] 50-4831
- Rocky Mountain snowmelt on talus slopes by radar satellite. Maxfield, A.W., [1996,eng] 50-5544
- Runoff and sediment yield under grazing in foothills fescue grasslands of Alberta. Naeth, M.A., et al. [1996,eng] 50-3340
- Runoff modeling of a small river basin. Ambrose, B., et al. [1996,eng] 50-6586
- Russian soil depletion by snowmelt. Chernyshev, E.V., et al. [1995,eng] 50-2148
- Satellite snow monitoring and runoff forecasting for the Yellow River. Zeng, Q.Z., [1990,chi] 50-6650
- Scaling of input data for macroscale hydrologic modeling. Kite, G.W., [1995,eng] 50-2544
- Seasonal freezing and soil erosion during snowmelt. Demidov, V.V., et al. [1995,eng] 50-2714
- Seasonal variability in high mountain lake water chemistry. Wögrath, S., et al. [1995,eng] 50-4077
- Seasonal variations of stream water chemistry in Spitsbergen. Potschin, M., et al. [1994,ger] 50-1587
- Sediment transport and discharge in a high arctic catchment (Liefdefjorden, NW Spitsbergen). Barsch, D., et al. [1994,eng] 50-1545
- Sedimentary structures of cold-climate coastal dunes, eastern Hudson Bay, Canada. Ruz, M.H., et al. [1995,eng] 50-3862
- Simple energy budget algorithm for the snowmelt runoff model. Kustas, W.P., et al. [1994,eng] 50-3819
- Simulation of soil moisture variations reflecting the hydrological cycle. Akinremi, O.O., et al. [1996,eng] 50-5918
- Simulation of summer snowmelt on the Greenland ice sheet using a one-dimensional model. Rowe, C.M., et al. [1995,eng] 50-585
- Slush stream phenomena—process and geomorphic impact. Barsch, D., et al. [1993,eng] 50-1674
- Slushflow prediction project in Rana, Norway. Hestnes, E., et al. [1995,eng] 50-4691
- Snow and water chemistry of a headwater alpine basin, Urumqi River, Tian Shan, China. Liu, F.J., et al. [1995,eng] 50-2413
- Snow cover effect on the heat and water balance in northwestern China. Kondo, J., et al. [1996,jpn] 50-6729
- Snow cover variations in a field catchment area. Shutov, V.A., [1995,eng] 50-2729
- Snow disposal sites—the Regional Municipality of Ottawa-Carleton experience. Becking, J.I., [1986,eng] 50-1196
- Snow disposal study for the designated growth centres. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1990,eng] 50-1153
- Snow evaporation from Spitsbergen tundra surfaces. Takeuchi, Y., et al. [1995,eng] 50-3250
- Snow hydrological parameters for modelling river runoff. Kuchment, L.S., et al. [1996,eng] 50-5519
- Snow in the Spanish Cordilleras. ERHIN Program. 1991/92. [1995,spa] 50-1691
- Snow surface energy exchanges and snowmelt at a continental alpine site. Cline, D., [1995,eng] 50-2408
- Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al. [1995,eng] 50-2461
- Snowbed bryophyte tissue composition related to air pollution. Woolgrove, C.E., et al. [1996,eng] 50-4004
- Snowmelt and slush torrents in Swedish Lapland. Gude, M., et al. [1995,eng] 50-4188

Snowmobiles

- Snowmelt hydrologic model of the Upper Sheep Creek watershed. Jackson, T.H.R., [1994,eng] 50-701
- Snowmelt induced chemical changes in seven streams in the Sierra Nevada, California. Melack, J.M., et al., [1995,eng] 50-2414
- Snowmelt modelling by combining air temperature and a distributed radiation index. Cazorzi, F., et al., [1996,eng] 50-5689
- Snowmelt water resources from aquifers. Kimura, S., [1988,jpn] 50-2285
- Snowmelt, global warming, and water level of Lake Biwa. Ikebuchi, S., [1992,eng] 50-3029
- Snowmelt-induced earth and rock flows. Watanabe, N., et al., [1992,jpn] 50-3136
- Snowpack controls on soil nitrogen dynamics in the Colorado alpine. Brooks, P.D., et al., [1995,eng] 50-2420
- Soil properties beneath ceanthus and pine stands in the eastern Sierra Nevada. Johnson, D.W., [1995,eng] 50-630
- Spatially distributed energy balance snowmelt model. Tarboton, D.G., et al., [1995,eng] 50-2407
- Stream flow hydrographic separation during watershed snowmelt. Sueker, J.K., [1995,eng] 50-2419
- Streamflow generation in a headwater basin on the Precambrian Shield. Wels, C., et al., [1991,eng] 50-3680
- Streamwater quality variations in a Colorado alpine environment. Caine, N., [1995,eng] 50-4189
- Studies on prediction method of snowmelt runoff in the upper reaches of the Yellow River. Song, Q., [1990,chi] 50-6654
- Study on snowmelt runoff prediction using weekly weather forecast. Hatta, S., et al., [1995,eng] 50-1959
- Sub-surface melting in a seasonal snow cover. Koh, G., et al., [1995,eng] 50-1869
- Suprapermfrost groundwater seepage in gravelly terrain. Resolute, N.W.T. Canada. Woo, M.K., et al., [1995,eng] 50-668
- Surface water chemistry and hydrology of a small arctic drainage basin. Everett, K.R., et al., [1996,eng] 50-4847
- Surface water chemistry in alpine watersheds. Stottmeyer, R., et al., [1995,eng] 50-2424
- Terrain as a controlling factor for slush streams in Spitsbergen. Scherer, D., et al., [1994,eng] 50-1588
- Terrestrial component of the cryosphere. Melnikov, P.A., et al., [1993,eng] 50-5483
- Transient hydrogeological controls on the chemistry of a seepage lake. Krabbenhoft, D.P., et al., [1995,eng] 50-2730
- Upland watershed hydrochemical response to acidification during snowmelt. Allan, C., [1995,eng] 50-5210
- Variation in snowmelt alimentation of annual river runoff. Bolgov, M.V., et al., [1996,eng] 50-5860
- Water chemistry and periphyton in an alpine wetland. Tetz, D., [1995,eng] 50-4161
- Weather and snowpack conditions essential to slushflow release and downslope propagation. Hestnes, E., et al., [1994,eng] 50-403
- Winter-spring snow cover distribution in the upper Yellow River. Chen, X.Z., et al., [1990,chi] 50-6651

See [also]: Meltwater; Snow melting

Snowmobiles

See [also]: Snow vehicles

Snowplows

See [also]: Snow removal equipment

Snowquakes

- Acoustic detection of avalanches at the Sionne-Anzère site, Valais, Switzerland. Christin, V., et al., [1995,fre] 50-4680
- Seismic detection in classifying avalanches. Sabot, F., et al., [1995,fre] 50-4642
- Seismic detection of avalanches: concept and validation of a pre-operational system. Lepretre, B., et al., [1995,fre] 50-4650

Snowsheds

- Current status and trends in countermeasures against snow and cold on highways. Murakami, M., [1988,jpn] 50-2281
- Exhibition of snow removal equipment, Tokyo, 1988. [1988,jpn] 50-2288
- More words on snow countermeasures for National Highway 17. Abe, T., [1996,jpn] 50-4939

Snowstorms

- Applications of fuzzy cluster analysis to integrated assessment of snow disaster. Feng, X.Z., et al., [1995,chi] 50-3989
- Assessing the hazard of too much or too little snow in the pastoral regions of China. Gu, Z.W., et al., [1995,chi] 50-3976
- Avalanche report 1992/93. Documentation and experts-contributions. Luzian, R., et al., [1995,ger] 50-4167
- Casualties due to snow and ice phenomena. Ikarashi, T., [1995,jpn] 50-605
- Characteristics of the snow cover of the eastern Pyrenees. Pélouan, H., [1995,fre] 50-2592
- Climatological analysis of the snowstorm damage in Xizang. Lin, Z.Y., [1992,chi] 50-1496
- Colorado storm and avalanches of February 1995. McCarty, D., et al., [1995,eng] 50-1098
- Convergence band clouds along the west coast of Hokkaido. Kobayashi, F., et al., [1993,eng] 50-6040
- Countermeasures in the snow belt. Okada, H., [1995,jpn] 50-993
- Current conditions and countermeasures in the snow belt. [1985,jpn] 50-2036
- Current conditions and countermeasures in the snow belt. [1988,jpn] 50-2037
- Current conditions and countermeasures in the snow belt. [1991,jpn] 50-2038

- Development of field technology and methods for forecasting snowfall and snow cover. [1989,jpn] 50-2041
- Doppler radar analysis of a severe spring snowstorm. Shields, M.T., et al., [1993,eng] 50-5250
- Doppler radar observation of vortex-type snowstorm in Hokkaido. Shirouka, R., et al., [1994,eng] 50-6041
- Electrification of blowing snow. Latham, J., et al., [1965,eng] 50-3947
- Electrification of snowstorms. Latham, J., et al., [1964,eng] 50-3938
- Fargo snowstorm of 6-8 January 1989. Weisman, R.A., [1996,eng] 50-6061
- Forecasting avalanches from freshly fallen, snowstorm and wet snow in the Anzobskiy Pass region. Kharitonov, G.G., et al., [1991,rus] 50-12
- Forecasting snowstorm avalanches along the Ust'-Kamenogorsk-Zyryanovsk highway. Kolesnikov, E.I., et al., [1991,rus] 50-10
- Forecasting the impacts of strong wintertime post-cold front winds in the northern plains. Kapela, A.F., et al., [1995,eng] 50-350
- Forty years of disaster mitigation in Xinjiang. Zhu, L.R., ed, et al., [1993,chi] 50-4166
- Ground-based radar for measuring snowfall rate. Houck, R.E., et al., [1995,eng] 50-3109
- Heavy snowfalls around Sapporo the winter of 1995/1996. Kanemura, N., et al., [1996,jpn] 50-4929
- Historical record of blizzards/major snow events in the British Isles, 1880-1989. Wild, R., et al., [1996,eng] 50-3961
- Ice and snow damage to high voltage overhead lines in Romania. Goia, L.M., et al., [1996,eng] 50-5366
- Japanese and snow. Yoshino, M., [1988,jpn] 50-2044
- Limits of wind-tunnel modeling of snow accumulations. Naaim-Bouvet, F., [1995,eng] 50-4667
- Major characteristics of snow disaster in Naggu area of Xizang. Feng, X.Z., et al., [1995,chi] 50-3977
- Measurements of ice and snow loads on the Tyee Lake 138 kV line. Peabody, A.B., [1996,eng] 50-5346
- Mesoscale structures along wind-parallel bands in lake-effect snows. Krutovich, D.A.R., [1993,eng] 50-5249
- Meteorological observations at Showa Station by JARE-33 in 1992. Matsuhara, K., et al., [1995,jpn] 50-4554
- Model of snow disaster assessment using NOAA-AVHRR data in Naggu area of Xizang. Feng, X.Z., et al., [1995,chi] 50-3988
- Modeling winter storms over Arizona. Vol.2: micropysics model. Matthews, D.A., [1995,eng] 50-2799
- Modeling winter storms over Arizona. Vol.3: local-scale model. Medina, J.G., [1995,eng] 50-2800
- Modeling winter storms over Arizona. Final report—Volume 1. Matthews, D.A., et al., [1995,eng] 50-2798
- National climatic reference base for exceptional wet snow and rime ice episodes. Raison, T., et al., [1996,eng] 50-5331
- National winter storms operations plan. [1995,eng] 50-1073
- Observational studies and numerical simulations of marine convective boundary layers. Rao, G.S., [1994,eng] 50-673
- On the snowfall at Aomori City due to orographic convergent winds. Rikiishi, K., et al., [1995,jpn] 50-1170
- PeanDOT responds to the challenges of January's blizzards and flooding. Chizmar, S., [1996,eng] 50-6102
- Performance of equipment for traffic report management systems. Obayashi, K., et al., [1992,jpn] 50-3137
- Predicting winter weather. Williams, J., [1995,eng] 50-3686
- Radar echoes from winter monsoon clouds in Hokkaido. Kobayashi, F., et al., [1992,eng] 50-6645
- Record winter snowfall of 1994-95 in U.S. West. Graf, D., et al., [1996,eng] 50-4155
- Report of avalanche accident at Pangka in 1995, Khumbu region, Nepal. Yamada, T., et al., [1996,jpn] 50-4928
- Snow and ice research in Japan during the past 50 years. Nakamura, T., [1995,jpn] 50-606
- Snow and industry. Itakura, K., [1988,jpn] 50-2051
- Snow and living conditions. Yoshino, M., ed, [1988,jpn] 50-2043
- Snow countermeasures on metropolitan expressways. Ishizawa, M., et al., [1988,jpn] 50-2282
- Snow disasters and countermeasure against it. Ikarashi, T., [1995,jpn] 50-604
- Snow distribution in Japan. Shitara, H., [1988,jpn] 50-2045
- Snow in the cities—a history of America's urban response. McKelvey, B., [1995,eng] 50-1123
- Snowfall intensity climatologies within the contiguous United States. Ryerson, C.C., [1991,eng] 50-763
- Snowstorms. Cohen, J., [1996,eng] 50-4999
- Sources of acidity in fresh snowfall elemental concentrations. Baisden, W.T., et al., [1995,eng] 50-2126
- Spatial and temporal distribution of storm precipitation in southwestern British Columbia. Loukas, A., et al., [1996,eng] 50-2603
- Study of heavy snowfall in Tohoku District. [1989,jpn] 50-2040
- Study on estimating snow cover. [1983,jpn] 50-2042
- Supercooled liquid water in Colorado Front Range winter storms. Rasmussen, R.M., et al., [1991,eng] 50-3264
- Technique for nowcasting hourly snowfall. Chappell, C.F., et al., [1991,eng] 50-3262
- Technology assessment on systems for conquering and exploiting snow. [1987,jpn] 50-2289
- Urban snow disasters. Higashijima, M., [1988,jpn] 50-2047
- Video monitoring of atmospheric icing. Wareing, J.B., et al., [1995,eng] 50-204

- Warning system for snow on power lines using neural networks. Ohta, H., et al., [1996,eng] 50-5355
- Weather and climate of a high mountain pass in the Colorado Rockies. Judson, A., [1965,eng] 50-5751
- Westwide Avalanche Network. Total snow. Summary by region. Tremper, B., [1996,eng] 50-5928
- Wet snow icing combined with strong wind—field inspections and field measurements. Eliasson, A.J., et al., [1996,eng] 50-5352
- Winter of 1994-95 in France. Météo-France, [1995,fre] 50-2588
- Winter road traffic census. Ueki, S., et al., [1992,jpn] 50-3140
- Winter storms over Canada. Stewart, R.E., et al., [1995,eng] 50-1852
- Wintertime precipitation enhancement in the Great Dividing Range of Australia. Carter, E.J., [1994,eng] 50-686

Societies

See [also]: Organizations

Sodar

- Infrasound signatures of a polar low in the Norwegian and Barents Sea on 23-27 March 1992. Ørbæk, J.B., et al., [1995,eng] 50-2026

Soil aggregates

- Aggregate degradation in the frost heave test. Hill, J., [1977,eng] 50-2320
- Calculation of water transport in the LR 90 test. Onalp, A., [1977,eng] 50-2325
- Effect of mode of compaction on frost heave. Burns, J., [1977,eng] 50-2318
- Forecast of rain erosion of tundra soils on the Yamal Peninsula. Grigor'ev, V.I.A., et al., [1996,eng] 50-5448
- Frost heave research at the University of Nottingham. James, R.H., [1977,eng] 50-2312
- Frost-heave test as a compliance requirement. Sherwood, P.T., [1977,eng] 50-2317
- Grading, degradation and compaction considerations in relation to specimen preparation. Hughes, R., [1977,eng] 50-2316
- Heaving pressures and frost heave. Kettle, R.J., [1977,eng] 50-2324
- Indirect assessment of frost susceptibility. Hurt, K.G., [1977,eng] 50-2327
- Natural cleaning of oiled coarse sediment shorelines in arctic and Atlantic Canada. Owens, E.H., et al., [1994,eng] 50-6231
- Proceedings. Colloquium on Frost Heave Testing and Research, Nottingham, England, May 18, 1977. [1977,eng] 50-2311
- Soil sample compaction degradation related to grading variations. Pike, D.C., [1977,eng] 50-2321

Soil air interface

- Aerosol deposition to an alpine tundra ecosystem. Sievering, H., et al., [1996,eng] 50-5964
- Air convection embankments for roadway construction in permafrost zones. Goering, D.J., [1996,eng] 50-6107
- Aircraft measurements of the stable carbon isotopic ratio of atmospheric methane over Siberia. Sugawara, S., et al., [1996,eng] 50-6051
- Arctic Flux Study: a regional view of trace gas release. Weller, G., et al., [1995,eng] 50-3809
- Boreal forest and the polar front. Pielke, R.A., et al., [1995,eng] 50-2847
- Calculated and measured air and soil freeze-thaw frequencies. Baker, D.G., et al., [1995,eng] 50-1217
- Carbon cycle in the high arctic tundra of Spitsbergen. Wüthrich, C., et al., [1994,eng] 50-1595
- Comparison of methods used to create estimate of air-freezing index. Steurer, P.M., et al., [1995,eng] 50-360
- Control of tundra methane emission by microbial oxidation. Whalen, S.C., et al., [1996,eng] 50-4850
- Controls on CH₄ flux from an Alaskan boreal wetland. Moosavi, S.C., et al., [1996,eng] 50-6053
- Datasets of the scintillation experiment at Seville, New Mexico. Otto, W.D., et al., [1996,eng] 50-3849
- Ecological controls on peatland methane emissions in discontinuous permafrost. Bubier, J.L., et al., [1995,eng] 50-2803
- Energy partitioning at treeline forest and tundra sites and its sensitivity to climate change. Lafleur, P.M., et al., [1995,eng] 50-600
- Estimating soil temperatures and frost in the lake effect snow-belt region, Michigan, USA. Isard, S.A., et al., [1995,eng] 50-1140
- Estimation of daily evapotranspiration from one time-of-day thermal infrared temperature. Li, F.Q., et al., [1990,chi] 50-6662
- Evaluation of respiration of Russian soils. Kudeiarov, V.N., et al., [1996,eng] 50-5086
- Evolution of factors affecting gas transmissivity of snow in the boreal forest. Hardy, J.P., et al., [1995,eng] 50-2398
- Fluxes of momentum and heat measured at Seville, New Mexico. Hill, R.J., et al., [1996,eng] 50-3850
- Forecasting earth surface temperature for the optimal application of frost protection methods. Krasovitski, B., et al., [1996,eng] 50-5021
- High-latitude forest ecophysiology during global warming. Kohlmaier, G.H., et al., [1995,eng] 50-771
- Impact of global warming on tundra and forest ecosystems. Plöchl, M., et al., [1995,eng] 50-4865
- Impacts of climate variability and change on Canadian wetlands. Woo, M.K., [1992,eng] 50-4805
- Initial assessment of multi-scale measures of CO₂ and H₂O flux in the Siberian taiga. Hollinger, D.Y., et al., [1995,eng] 50-3810

Soil analysis

- Landscape patterns of carbon dioxide exchange in tundra ecosystems. Oberbauer, S.F., et al. [1996,eng] 50-4849
- Methane emissions from wetlands at northern treeline. Rouse, W.R., et al. [1995,eng] 50-75
- Methane flux along a Siberian tundra transect. Christensen, T.R., et al. [1995,eng] 50-1334
- Microbial responses to nitrogen additions in alpine tundra soil. Fisk, M.C., et al. [1996,eng] 50-6065
- Nitrous oxide emission from an agricultural soil subjected to different freeze-thaw cycles. Chen, Y., et al. [1995,eng] 50-5687
- Permafrost and climate change: geotechnical implications. Williams, P.J., [1995,eng] 50-5238
- Potential role of peatland dynamics in ice-age initiation. Klinger, L.F., et al. [1996,eng] 50-4587
- Recent cooling along Hudson Strait, from permafrost temperature measurements. Allard, M., et al. [1995,eng] 50-76
- Response of soil carbon to climate change. McGuire, A.D., et al. [1995,eng] 50-4866
- Results from the 1994 Boreal Ecosystem-Atmosphere Study (BOREAS). Sellers, P., et al. [1995,eng] 50-4574
- Results of the millimeter-wave instrument operated at Seville, New Mexico. Otto, W.D., et al. [1996,eng] 50-5666
- Siberian tundra CO₂ flux as a source of seasonal CO₂ variations. Zimov, S.A., et al. [1996,eng] 50-5868
- Simulation of soil moisture variations reflecting the hydrological cycle. Akinremi, O.O., et al. [1996,eng] 50-5918
- Snow cover effect on the heat and water balance in northwestern China. Kondo, J., et al. [1996,jpn] 50-6729
- Soil-mediated effects of atmospheric deposition on eastern U.S. spruce-fir forests. Johnson, D.W., et al. [1992,eng] 50-4055
- Soil-to-snow movement of synthetic organic compounds in natural snowpack. Hogan, A., et al. [1995,eng] 50-2403
- Spatial energy budgets in alpine tundra. Greenland, D., [1993,eng] 50-4802
- Strength sensitivity index for assessing climate warming effects on permafrost. Ladanyi, B., [1996,eng] 50-6110
- Test of variant soil moisture conditions on the Canadian Global Forecast Model. Delage, Y., et al. [1995,eng] 50-1528
- Three dimensional modelling of a soil heat exchanger-storage system for greenhouses. Gauthier, C., et al. [1996,eng] 50-6445
- Tropical toxins ruin arctic catch. Pearce, F., [1995,eng] 50-968
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995,eng] 50-3127
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995,eng] 50-4610
- Winter methane dynamics in a temperate peatland. Melloh, R.A., et al. [1996,eng] 50-6052
- Winter-time convection in open-graded embankments. Goering, D.J., et al. [1996,eng] 50-3827
- Soil analysis**
- Antagonism of bacteria isolated from the soils of Western Spitsbergen, Bellsund region. Jóźwik, Z., [1993,eng] 50-2187
- Canadian permafrost distribution during the Holocene. Zoltai, S.C., [1995,eng] 50-1453
- Comparison criteria for environmental chemical analyses of split samples sent to different laboratories. Grant, C.L., et al. [1996,eng] 50-5912
- Composition and construction of late Pleistocene end moraines, Durango, Colorado. Johnson, M.D., et al. [1995,eng] 50-1859
- Correlation between Pleistocene involutions in English soil and Canadian thermokarst. Munton, J.B., et al. [1995,eng] 50-1803
- Development of a field method for ammonium picrate/picric acid in soil and water. Thorne, P.G., et al. [1995,eng] 50-2440
- Distinguishing natural organics from diesel contaminants in soils. Dworjan, P., [1996,eng] 50-6113
- Effects of understory alder on forest soil fertility. Wurtz, T.L., [1995,eng] 50-1090
- Enhanced preservation of volatile organic compounds in soil with sodium bisulfate. Hewitt, A.D., [1995,eng] 50-2566
- Forms of unusual patterned ground: examples from the Falkland Islands, South Atlantic. Wilson, P., [1995,eng] 50-2718
- Ice-volume forcing of East Asian winter monsoon variations in the past 800,000 years. Ding, Z.L., et al. [1995,eng] 50-965
- Isotopic analysis of phosphorus in soils and crops of Xinjiang. Wu, G.H., et al. [1991,chi] 50-5130
- Late Holocene record of aeolian and fire activity in northern Québec, Canada. Filion, L., et al. [1991,eng] 50-3304
- Material interactions when sampling groundwater. Parker, L.V., [1995,eng] 50-2456
- Mineralogical and chemical analysis of Taklimakan Desert soil samples. Ishii, T., et al. [1991,jpn] 50-1428
- Obtaining and transferring soils for in-vial analysis of volatile organic compounds. Hewitt, A.D., et al. [1996,eng] 50-4547
- Operational method to determine the optical density of humic acid in soils. Zhang, C.Y., et al. [1991,chi] 50-5137
- Organic carbon variations in stream waters during snowmelt. Boyer, E.W., et al. [1995,eng] 50-2422
- Processes in soils and paleosoils—a new method for the study of weathering. Nemecek, E., et al. [1995,eng] 50-1037
- Rapid screening of metals using portable high-resolution x-ray fluorescence spectrometers. Hewitt, A.D., [1995,eng] 50-1075
- Selenium in the saline podsol and desert soils of the northern foothills of Tian Shan. Wang, Z.Q., [1991,chi] 50-5131
- Snowpack controls on soil nitrogen dynamics in the Colorado alpine. Brooks, P.D., et al. [1995,eng] 50-2420

- Soil isotopic evidence of Quaternary atmospheric circulation variations in North America. Amundson, R., et al. [1996,eng] 50-2722
- Soil/weathering rate relations from glacial sediment chemical evolution. Taylor, A., et al. [1995,eng] 50-1806
- Solifluction and climatic variation in the Holocene. Frenzel, B., ed, et al. [1993,eng] 50-823
- Solifluction and creep rates 1972-1991, Kapp Linné, West Spitsbergen. Åkerman, H.J., [1993,eng] 50-841
- Solifluction controls in the French Alps. Pissart, A., [1993,eng] 50-839
- Studies on the soils and land resources of Xinjiang. Xinjiang Institute of Biology, Pedology, and Desert Research of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang shengwu tuang shamo yanjiusuo), Urumqi, [1991,chi] 50-5106
- Study on improving the pretreatment in mechanical analysis of soils by suction tube. Liao, B.L., et al. [1991,chi] 50-5136
- Study on Quaternary moraine debris of Mount Xixia Bangma region. Zhang, S.Y., [1982,chi] 50-6603
- Swiss alpine palaeoclimate during the Holocene: pollen analytical evidence and general features. Burga, C.A., [1993,eng] 50-825
- Taymyr Peninsula vegetation response to climatic changes. Koshtikarova, V.L., [1995,eng] 50-4701
- Thermoluminescence ages of loess and associated sediments in central Nebraska, USA. Pye, K., et al. [1995,eng] 50-2166
- Using integrated numerical analytical microcomputer software in alkaline soil analysis. Yao, G.R., et al. [1991,chi] 50-5117
- VOC determination in soils prepared by vapor fortification. Hewitt, A.D., et al. [1995,eng] 50-2441
- X ray fluorescence screening for metals in soil. Hewitt, A.D., [1995,eng] 50-2442
- X ray fluorescence spectrum analysis of the total mineral content of soils. Chen, T.M., et al. [1991,chi] 50-5135
- Soil cement**
- Cement and lime for deep stabilization of soil. A chemical-physical study of stabilization effects. Åhnberg, H., et al. [1995,swe] 50-2168
- Elasticity of partially saturated frozen sand. Jacoby, M., et al. [1996,eng] 50-4323
- Evaluation of reducing method of total heave amounts using soil-cement mixtures. Fukuda, M., et al. [1992,eng] 50-25
- Soil chemistry**
- Acclimation of tree function and structure to climate change and implications to forest carbon balance. Hari, P., et al. [1994,eng] 50-3204
- Adsorption-desorption of TNT and RDX in soils. Xue, S.K., et al. [1995,eng] 50-1686
- Analysis of the water and salt balance of the irrigated areas in the Yangtze Basin. Song, Y.D., et al. [1991,chi] 50-5121
- Analytical methods for explosives contamination on army installations. Jenkins, T.F., et al. [1995,eng] 50-1094
- Antagonism of bacteria isolated from the soils of Western Spitsbergen, Bellsund region. Jóźwik, Z., [1993,eng] 50-2187
- Application of chemical fertilizers in Xinjiang. Huang, Z.W., et al. [1991,chi] 50-5128
- Arctic bioremediation: a case study. Liddell, B.V., et al. [1991,eng] 50-1752
- Arctic soil microbial biomass response to fertilizer additions. Jonasson, S., et al. [1996,eng] 50-6230
- Argid of Xinjiang—a calcicorthid soil. Li, S.G., et al. [1991,chi] 50-5113
- Bioreactor with liquid suspensions of *Alcaligenes eutrophus* JMP134. McKay, D.J., et al. [1995,eng] 50-5660
- Bioremediation of a petroleum-contaminated cryic soil. Walworth, J.L., et al. [1995,eng] 50-781
- Carbon cycle in the high arctic tundra of Spitsbergen. Wüthrich, C., et al. [1994,eng] 50-1595
- Characteristics and formation of magnesian alkaline soils. Tian, C.Y., et al. [1991,chi] 50-5116
- Characterization of eastern U.S. spruce-fir soils. Fernandez, I.J., [1992,eng] 50-4051
- Chemical weathering in high arctic soils, Spitsbergen. Blümel, W.D., et al. [1994,ger] 50-1593
- Composition, properties and radiocarbon age of humus in paleosoils. Chichagova, O.A., [1995,eng] 50-1047
- Contamination of groundwaters. Adriano, D.C., ed, et al. [1994,eng] 50-5515
- Control of tundra methane emission by microbial oxidation. Whalen, S.C., et al. [1996,eng] 50-4850
- Controls on CH₄ flux from an Alaskan boreal wetland. Moosavi, S.C., et al. [1996,eng] 50-6053
- Development of a field method for ammonium picrate/picric acid in soil and water. Thorne, P.G., et al. [1995,eng] 50-2440
- Development of colorimetric field screening methods for munitions compounds in soil. Jenkins, T.F., et al. [1995,eng] 50-1095
- Differentiation of the composition and properties due to podzolization on the Baikal-Patom plateau. Kuz'min, V.A., [1995,eng] 50-3871
- Distinguishing natural organics from diesel contaminants in soils. Dworjan, P., [1996,eng] 50-6113
- Effect of disturbance on forest soil microbiology in the Himalaya. Joshi, S.R., et al. [1994,eng] 50-5433
- Effect of fertilizer on the quality and productivity of Jiashi melons. Zhao, G.H., et al. [1991,chi] 50-5124
- Effect of irrigation on the quality and productivity of Jiashi melons. Chang, Q., et al. [1991,chi] 50-5125

- Effects of tree litter decomposition on forest soil composition. Harris, M.M., et al. [1996,eng] 50-3309
- Engineering geological characteristics of solifluctive soil (Yamal Peninsula). Platov, N.A., et al. [1985,rus] 50-244
- Evaluation of respiration of Russian soils. Kudeiarov, V.N., et al. [1996,eng] 50-5086
- Evolution of soils in the basin of the middle reach of the Ber-elekh River (Upper Kolyma River). Pavlov, B.A., et al. [1995,eng] 50-3877
- Fertilizers and enzyme activity of Jiashi melon field soils. Yue, H.X., et al. [1991,chi] 50-5126
- Formation of ice between hydrotalcite particles measured by thermoporometry. Titulaer, M.K., et al. [1996,eng] 50-6330
- Heavy metals in the podsol desert soils of the Fukang region. Xie, Y.Y., et al. [1991,chi] 50-5133
- Holding-time estimates for soils containing explosives. Grant, C.L., et al. [1995,eng] 50-944
- Humus conditions of oligotrophic tundra soils in Spitsbergen. Weber, L., et al. [1994,ger] 50-1594
- Implications for changes in arctic plant biodiversity from environmental manipulation experiments. Callaghan, T.V., et al. [1995,eng] 50-3897
- In situ remediation of hydrocarbon contaminated soil and groundwater. Gould, T.F., et al. [1996,eng] 50-6116
- Innovative bioventing system construction/operation in cold regions. Strickland, K.K., et al. [1996,eng] 50-6136
- Isotopic analysis of phosphorus in soils and crops of Xinjiang. Wu, G.H., et al. [1991,chi] 50-5130
- Landscape patterns of carbon dioxide exchange in tundra ecosystems. Oberbauer, S.F., et al. [1996,eng] 50-4849
- Leaf extract allelopathic effects on arctic graminoids. Michelsen, A., et al. [1995,eng] 50-1091
- Long-term plant persistence on highly acidic soils. Palazzo, A.J., et al. [1995,eng] 50-5593
- Material interactions when sampling groundwater. Parker, L.V., [1995,eng] 50-2456
- Methane flux along a Siberian tundra transect. Christensen, T.R., et al. [1995,eng] 50-1334
- Microbial responses to nitrogen additions in alpine tundra soil. Fisk, M.C., et al. [1996,eng] 50-6065
- Mineralogical and chemical analysis of Taklimakan Desert soil samples. Ishii, T., et al. [1991,jpn] 50-1428
- Mountain meadow soils of the western Kunlun Mountains. Zhang, L.D., et al. [1991,chi] 50-5114
- Mountain meadow soils of Xizang. Zhang, B., [1991,chi] 50-5115
- Nitrogen fixers in early primary succession at Glacier Bay. Kohls, S.J., et al. [1995,eng] 50-3747
- Nitrogen soil dynamics in an arctic lowland ecosystem. Chapin, D.M., [1996,eng] 50-4340
- Nutrient availability and uptake by tundra plants. Schimel, J.P., et al. [1996,eng] 50-4848
- Operational method to determine the optical density of humic acid in soils. Zhang, C.Y., et al. [1991,chi] 50-5137
- Oxygen supplies for bioremediation in tundra soils. White, D.M., et al. [1996,eng] 50-6135
- Periglacial overlying strata in the Bavarian forest. Völkel, J., [1993,eng] 50-1679
- Petroleum hydrocarbon removal via volatilization and biodegradation at McGrath, Alaska. Ramert, P.C., et al. [1996,eng] 50-6115
- Phyto-recultivation of technologically disturbed lands. Valeeva, E.I., [1994,rus] 50-293
- Plant ecology during desertification of an arctic salt marsh. Srivastava, D.S., et al. [1996,eng] 50-4523
- Potential role of peatland dynamics in ice-age initiation. Klinger, L.F., et al. [1996,eng] 50-4587
- Preservation of volatile organic compounds for testing in soil samples. Hewitt, A.D., [1995,eng] 50-780
- Response of soil carbon to climate change. McGuire, A.D., et al. [1995,eng] 50-4866
- Review of the geochemistry of methane in natural gas hydrate. Kvenvolden, K.A., [1995,eng] 50-6229
- Russian soil depletion by snowmelt. Chernyshev, E.V., et al. [1995,eng] 50-2148
- Salt precipitation and accumulation in the Taklimakan Desert. Okada, A., et al. [1991,jpn] 50-1429
- Selection of cold-tolerant plants for growth in soils contaminated with organics. Rogers, H.B., et al. [1995,eng] 50-4609
- Selenium in the saline podsol and desert soils of the northern foothills of Tian Shan. Wang, Z.Q., [1991,chi] 50-5131
- Simple field screening method for white phosphorus (P₄) in sediment. Walsh, M.E., et al. [1995,eng] 50-2328
- Simulated transport of three cations through porous media. Grant, S.A., et al. [1995,eng] 50-5598
- Soil formation in floodplains in high latitudes. Gafurov, F.G., et al. [1992,rus] 50-22
- Soil nutrient dynamics in East African alpine ecosystems. Rehder, H., [1994,eng] 50-3055
- Soil properties beneath cañthrus and pine stands in the eastern Sierra Nevada. Johnson, D.W., [1995,eng] 50-630
- Soil studies in the region of southern Bellsund area (Western Spitsbergen). Klimowicz, Z., et al. [1993,eng] 50-2205
- Soil-mediated effects of atmospheric deposition on eastern U.S. spruce-fir forests. Johnson, D.W., et al. [1992,eng] 50-4055
- Soils and melon cultivation in Jiashi County, Xinjiang. Li, P.Q., et al. [1991,chi] 50-5123

Soil classification

- Studies on the soils and land resources of Xinjiang. Xinjiang Institute of Biology, Pedology, and Desert Research of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang shengwu turang shamo yanjiusuo), Urumqi, [1991,chi] 50-5106
- Study on a high-efficiency new type of urea fertilizer using ^{15}N . Xiong, J.M., et al. [1991,chi] 50-5129
- Study on alfalfa seedling cultivation technology in saline hardpan soil. Ma, S.Z., et al. [1991,chi] 50-5122
- Study on improving the pretreatment in mechanical analysis of soils by suction tube. Liao, B.L., et al. [1991,chi] 50-5136
- Study on Quaternary moraine debris of Mount Xixia Bangma region. Zhang, S.Y., [1982,chi] 50-6603
- Study on the causes and control of bitter pit in apples. Yu, Q.L., et al. [1991,chi] 50-5127
- Study on the dynamics of chemical elements in desert saline soil-plant systems. Wang, Z.Q., et al. [1991,chi] 50-5132
- Takyr soils and cold desert gypsic soils in the western Kunlun Mountains. Gu, G.A., et al. [1992,chi] 50-1494
- Transformation of an enzyme pool in cultivated podsol soil. Freger, V.M., [1994,rus] 50-279
- Transport of TNT and RDX in soils. Selim, H.M., et al. [1995,eng] 50-1688
- Two-year record of eolian sedimentation in the Wind River Range, Wyoming, U.S.A. Dahms, D.E., et al. [1996,eng] 50-5496
- Using integrated numerical analytical microcomputer software in alkaline soil analysis. Yao, G.R., et al. [1991,chi] 50-5117
- Vertical migration of diesel into silty sand subject to cyclic freeze-thaw. Biggar, K.W., et al. [1996,eng] 50-6117
- VII. Contents of Cu, Mn, Zn, Pb and Cd in plants and soil on Western Spitsbergen—Bellsund region. Józwiak, Z., et al. [1993,eng] 50-2188
- VOC determination in soils prepared by vapor fortification. Hewitt, A.D., et al. [1995,eng] 50-2441
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995,eng] 50-3127
- Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995,eng] 50-4610
- X ray fluorescence screening for metals in soil. Hewitt, A.D. [1995,eng] 50-2442
- X ray fluorescence spectrum analysis of the total mineral content of soils. Chen, T.M., et al. [1991,chi] 50-5135
- Soil classification**
- Advanced classification system for Xinjiang soils. Li, Z.X., [1991,chi] 50-5112
- Argid of Xinjiang—a calciorthid soil. Li, S.G., et al. [1991,chi] 50-5113
- Characteristics and formation of magnesian alkaline soils. Tian, C.Y., et al. [1991,chi] 50-5116
- Characterization of eastern U.S. spruce-fir soils. Fernandez, I.J., [1992,eng] 50-4051
- Conception for the rehabilitation of transportation infrastructures in northern regions. Ladanyi, B., [1994,fre] 50-4946
- Description of Kolyma River landscapes and soils. Smith, C.A.S., et al. [1995,eng] 50-4698
- Diagnostics of solonchaks: a class of salt-rich soils. Pankova, E.I., et al. [1995,eng] 50-3874
- Discussion on the division and correlation of Holocene series in Xinjiang. Bai, M.X., [1985,chi] 50-2007
- Drilling and sampling of permafrost for site investigation purposes: a review. Riddle, C.H., et al. [1991,eng] 50-1747
- Frost-heave test as a compliance requirement. Sherwood, P.T., [1977,eng] 50-2317
- Genetic and ecological significance of alpine debris mulch soils. Liu, C.D., [1992,chi] 50-1493
- Identification of paleosol types and their applicability for paleoclimatic reconstructions. Morozova, T., [1995,eng] 50-1046
- Land classification, land structure and comprehensive natural zonation of Xinjiang. Fan, Z.L., et al. [1991,chi] 50-5107
- Land in Xinjiang conducive to poplar tree farming. Jia, Z.J., et al. [1991,chi] 50-5118
- Low-yield land and its amelioration in Xinjiang. Zhang, B.Q., et al. [1991,chi] 50-5118
- Mapping of soil groups on Germania Peninsula in Spitsbergen. Eberle, J., et al. [1994,ger] 50-1592
- Mesomorphous soil formation in the cryogenic taiga semihumid sector of central Siberia. Ershov, I.U.I., [1995,eng] 50-2146
- Methods for classifying apparently homogeneous loess sequences. Molnár, B., et al. [1995,eng] 50-1041
- Mountain meadow soils of the western Kunlun Mountains. Zhang, L.D., et al. [1991,chi] 50-5114
- Mountain meadow soils of Xizang. Zhang, B., [1991,chi] 50-5115
- Natural vegetation complexes of the Northern Dvina River floodplain. Velkov, N.V., [1995,eng] 50-4699
- Organic carbon storage in the soils of the Russian Federation. Orlov, D.S., et al. [1996,eng] 50-5085
- Pleistocene soil evolution in a Russian upland. Sycheva, S.A., [1995,eng] 50-2147
- Pre-Illinoian glacial stratigraphy in north-central Missouri. Rovey, C.W., III, et al. [1996,eng] 50-4585
- Rangelands of Xizang (Tibet). Mou, X.D., et al. [1992,chi] 50-2296
- Soil formation in floodplains in high latitudes. Gafurov, F.G., et al. [1992,rus] 50-22

- Soil frost heave and bearing tests. Lausanne, Switzerland. Federal Institute of Technology. Laboratory of Soil Mechanics. (École Polytechnique Fédérale de Lausanne. Laboratoire de mécanique des sols) (Eidgenössische Technische Hochschule), [1988,fre] 50-1669
- Soil studies in the region of southern Bellsund area (Western Spitsbergen). Klimowicz, Z., et al. [1993,eng] 50-2205
- Soil thermal properties for the design of underground structures in cold regions. Steinmanis, J.E., et al. [1996,eng] 50-6146
- Soils of Xizang (Tibet). Gao, Y.X., et al. [1985,chi] 50-2297
- Solifluction in northern Finland: past and present. Seppälä, M., [1993,eng] 50-830
- Studies on the soils and land resources of Xinjiang. Xinjiang Institute of Biology, Pedology, and Desert Research of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang shengwu turang shamo yanjiusuo), Urumqi, [1991,chi] 50-5106
- Using computers for MSS image analysis in land use classification. Cheng, X.J., et al. [1991,chi] 50-5111
- Using integrated numerical analytical microcomputer software in alkaline soil analysis. Yao, G.R., et al. [1991,chi] 50-5117
- Soil compaction**
- Aggregate degradation in the frost heave test. Hill, J., [1977,eng] 50-2320
- Assessing frost damage in compacted clay liners. Benson, C.H., et al. [1995,eng] 50-1133
- Cement and lime for deep stabilization of soil. A chemical-physical study of stabilization effects. Ahnberg, H., et al. [1995,awe] 50-2168
- Effect of mode of compaction on frost heave. Burns, J., [1977,eng] 50-2318
- Experimental studies on the resistance of frozen ground to maximum thermo-erosion washout. Pendin, V.V., et al. [1996,rus] 50-6407
- Frost-heave test as a compliance requirement. Sherwood, P.T., [1977,eng] 50-2317
- Full depth testing of frost susceptible soils. Final report. Rice, D.C., [1982,eng] 50-1689
- Glacial influence on offshore Norwegian sediment properties. Sætem, J., et al. [1996,eng] 50-5320
- Grading, degradation and compaction considerations in relation to specimen preparation. Hughes, R., [1977,eng] 50-2316
- Mechanical behavior of frozen earth materials under high pressure triaxial test conditions. Chamberlain, E.J., et al. [1970,eng] 50-3310
- Performance of landfill cover systems in cold climates. Lee, J.Y., [1994,eng] 50-371
- Pore size effects on road subgrade frost susceptibility. Wood, L.E., et al. [1982,eng] 50-2028
- Pressure studies on frost heave in soil and glaciers. Radd, F.J., et al. [1966,eng] 50-1409
- Relation between permeability and pore size distribution of compacted clayey silts. Garcia-Bengochea, I., [1978,eng] 50-2802
- Resilient modulus of cohesive soils and the effect of freeze-thaw. Lee, W.J., et al. [1995,eng] 50-578
- Revegetation of shrub tundra in disturbed soils. Harper, K.A., et al. [1996,eng] 50-5490
- Soil deformation and stress analysis under a rolling wheel. Foster, W.A., Jr., et al. [1995,eng] 50-47
- Soil sample compaction degradation related to grading variations. Pike, D.C., [1977,eng] 50-2321
- Sources of variability in a constant boundary temperature frost heave test. Lomas, K.J., [1981,eng] 50-2143
- Study and application of strong tamping to prevent frost heave. Han, H.G., et al. [1989,chi] 50-1385
- Suction measurements on compacted till specimens. Fredlund, D.G., et al. [1995,eng] 50-1154
- Winter effects on hydraulic conductivity of compacted clay—discussion. Day, R.W., et al. [1996,eng] 50-5207
- Soil composition**
- Application of chemical fertilizers in Xinjiang. Huang, Z.W., et al. [1991,chi] 50-5128
- Argid of Xinjiang—a calciorthid soil. Li, S.G., et al. [1991,chi] 50-5113
- Characteristics and formation of magnesian alkaline soils. Tian, C.Y., et al. [1991,chi] 50-5116
- Characteristics of the seasonal freezing of rocks in the Tien Shan. Severskii, E.V., [1996,rus] 50-6368
- Characterization of eastern U.S. spruce-fir soils. Fernandez, I.J., [1992,eng] 50-4051
- Composition, properties and radiocarbon age of humus in peatsoils. Chichagova, O.A., [1995,eng] 50-1047
- Decomposition of needle litter in a forest ecosystem. Berg, B., et al. [1995,eng] 50-2731
- Determination of alpine treeline variations from soil charcoal sediments. Carcaillat, C., et al. [1996,eng] 50-4746
- Development of an Alaskan North Slope soils database for drill cuttings reclamation. Schumacher, J.P., et al. [1991,eng] 50-1722
- Diagnostics of solonchaks: a class of salt-rich soils. Pankova, E.I., et al. [1995,eng] 50-3874
- Differentiation of the composition and properties due to podzolization on the Baikal-Patom plateau. Kuz'min, V.A., [1995,eng] 50-3871
- Distinguishing natural organics from diesel contaminants in soils. Dworjan, P., [1996,eng] 50-6113
- Effect of fertilizer on the quality and productivity of Jiashi melons. Zhao, G.H., et al. [1991,chi] 50-5124

- Effect of fines content on frost heave. Tester, R.E., et al. [1996,eng] 50-6752
- Effect of irrigation on the quality and productivity of Jiashi melons. Chang, Q., et al. [1991,chi] 50-5125
- Effect of the mineral composition of soils on the coastal vegetation of the Chukotskiy Peninsula. Sergienko, L.A., [1991,rus] 50-1308
- Fertilizers and enzyme activity of Jiashi melon field soils. Yue, H.X., et al. [1991,chi] 50-5126
- Heavy metals in the podsol desert soils of the Fukang region. Xie, Y.Y., et al. [1991,chi] 50-5133
- Humus conditions of oligotrophic tundra soils in Spitsbergen. Weber, L., et al. [1994,ger] 50-1594
- Isotopic analysis of phosphorus in soils and crops of Xinjiang. Wu, G.H., et al. [1991,chi] 50-5130
- Lithium and boron geochemistry of salt lakes in the Qaidam Basin. Zheng, X.Y., [1986,chi] 50-1992
- Loess distribution, origin, and chronology. Pécsi, M., [1990,ger] 50-1794
- Marine clay deposits in ice water around the South Shetlands. Zhou, F.G., et al. [1989,chi] 50-6781
- Mountain meadow soils of the western Kunlun Mountains. Zhang, L.D., et al. [1991,chi] 50-5114
- Mountain meadow soils of Xizang. Zhang, B., [1991,chi] 50-5115
- Operational method to determine the optical density of humic acid in soils. Zhang, C.Y., et al. [1991,chi] 50-5137
- Organic carbon storage in the soils of the Russian Federation. Orlov, D.S., et al. [1996,eng] 50-5085
- Organic compounds in a permafrost sediment core from Siberia. Matsumoto, G.I., et al. [1995,eng] 50-3844
- Pedogenic processes and evolution of the soils on moraines in alpine periglacial environments. Liu, G.N., et al. [1995,chi] 50-5631
- Periglacial overlying strata in the Bavarian forest. Völkel, J., [1993,eng] 50-1679
- Plant functional diversity and resource control of primary production in Alaskan arctic tundras. Shaver, G.R., [1995,eng] 50-3900
- Quaternary eolian deposits at a salt lake in the Qaidam Basin. Wang, J.D., et al. [1986,chi] 50-1994
- Quaternary of the loess plateau. Sun, J.Z., ed. et al. [1991,chi] 50-2010
- Rapid screening of metals using portable high-resolution x-ray fluorescence spectrometers. Hewitt, A.D., [1995,eng] 50-1075
- Rapid test for the determination of frost susceptibility of soils. Leary, R.M., [1977,eng] 50-4259
- Role of principles and methods in loess-paleosol investigations. Pécsi, M., [1995,eng] 50-1035
- Selenium in the saline podsol and desert soils of the northern foothills of Tian Shan. Wang, Z.Q., [1991,chi] 50-5131
- Soil formation in floodplains in high latitudes. Gafurov, F.G., et al. [1992,rus] 50-22
- Soils and melon cultivation in Jiashi County, Xinjiang. Li, P.Q., et al. [1991,chi] 50-5123
- Soils of Xizang (Tibet). Gao, Y.X., et al. [1985,chi] 50-2297
- Stratigraphy of slope deposits and soils in the northeastern Great Basin and vicinity. Kleber, A., [1993,eng] 50-1681
- Studies on the soils and land resources of Xinjiang. Xinjiang Institute of Biology, Pedology, and Desert Research of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang shengwu turang shamo yanjiusuo), Urumqi, [1991,chi] 50-5106
- Study on a high-efficiency new type of urea fertilizer using ^{15}N . Xiong, J.M., et al. [1991,chi] 50-5129
- Study on alfalfa seedling cultivation technology in saline hardpan soil. Ma, S.Z., et al. [1991,chi] 50-5122
- Study on improving the pretreatment in mechanical analysis of soils by suction tube. Liao, B.L., et al. [1991,chi] 50-5136
- Study on Quaternary moraine debris of Mount Xixia Bangma region. Zhang, S.Y., [1982,chi] 50-6603
- Study on the causes and control of bitter pit in apples. Yu, Q.L., et al. [1991,chi] 50-5127
- Study on the dynamics of chemical elements in desert saline soil-plant systems. Wang, Z.Q., et al. [1991,chi] 50-5132
- Study on theoretical problems of peat resources of the Qinghai-Xizang Plateau. Sun, G.Y., [1992,chi] 50-1497
- Takyr soils and cold desert gypsic soils in the western Kunlun Mountains. Gu, G.A., et al. [1992,chi] 50-1494
- Using integrated numerical analytical microcomputer software in alkaline soil analysis. Yao, G.R., et al. [1991,chi] 50-5117
- X ray fluorescence spectrum analysis of the total mineral content of soils. Chen, T.M., et al. [1991,chi] 50-5135
- Soil conservation**
- Analysis of the water and salt balance of the irrigated areas in the Yangqi Basin. Song, Y.D., et al. [1991,chi] 50-5121
- Application of chemical fertilizers in Xinjiang. Huang, Z.W., et al. [1991,chi] 50-5128
- Debris flows in the eastern Qinghai-Xizang Plateau. Tang, B.X., et al. [1994,eng] 50-4785
- Desertification and its control in China. Zhu, Z.D., et al. [1989,chi] 50-1851
- Drought and salt resistant plants in arid regions of China. Omara, K., et al. [1991,jpn] 50-1442
- Ecology and conservation of alpine meadows in central Himalaya, India. Ram, J., et al. [1994,eng] 50-5418
- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: introduction. Reynolds, J.F., et al. [1996,eng] 50-4839

Soil creep

- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: progress and prospects. Tenhunen, J.D., et al. [1996.eng] 50-4857
- Effect of disturbance on forest soil microbiology in the Himalaya. Joshi, S.R., et al. [1994.eng] 50-5433
- Effect of fertilizer on the quality and productivity of Jiashi melons. Zhao, G.H., et al. [1991.chi] 50-5124
- Effect of irrigation on the quality and productivity of Jiashi melons. Chang, Q., et al. [1991.chi] 50-5125
- Environmental degradation in the northeastern Qinghai-Xizang Plateau. Zheng, Y.C., [1994.eng] 50-4786
- Fertilizers and enzyme activity of Jiashi melon field soils. Yue, H.X., et al. [1991.chi] 50-5126
- Fuzzy mathematics in evaluating the tillability of land in Xinjiang. Ji, F. [1991.chi] 50-5109
- Grassland ecosystems in eastern Inner Mongolia. Nemoto, M., [1991.jpn] 50-1440
- High altitude flora of western Himalaya: peculiarities and conservation. Aswal, B.S., [1994.eng] 50-5421
- High altitudes of the Himalaya (biogeography, ecology & conservation). Pangtey, Y.P.S., ed. et al. [1994.eng] 50-5415
- Japan-China Joint Study on Desertification. Apr. 1990-Mar. 1991. Japan. Science and Technology Agency. Research and Development Bureau (Kagaku gijyusochu Kenkyu kaihatsukyoku). [1991.jpn] 50-1421
- Ladakh: an update on natural resources. Dhar, U., et al. [1994.eng] 50-5423
- Long-term plant persistence on highly acidic soils. Palazzo, A.J., et al. [1995.eng] 50-5593
- Low-yield land and its amelioration in Xinjiang. Zhang, B.Q., et al. [1991.chi] 50-5118
- Management of winter soil temperatures to control streambank erosion. Bohn, C., [1989.eng] 50-2464
- Plan for the Japan-China joint study of the Taklimakan Desert. Japan. Science and Technology Agency. Research and Development Bureau, [1991.jpn] 50-1422
- Progress report on studies to explain the mechanisms of desertification. [1989.jpn] 50-2034
- Protected areas and conservation of rare endemic plants in the Himalaya. Rawat, G.S., [1994.eng] 50-5422
- Research on the natural resources and environment of the Ordos Plateau in Inner Mongolia. Li, B., ed. et al. [1990.chi] 50-2011
- Resource ecology for soil conservation in the cold deserts of the Himalaya. Gupta, R.K., [1994.eng] 50-5426
- Road-related disturbances in an arctic watershed. Leadley, P.W., et al. [1996.eng] 50-4856
- Runoff index values for frozen soil areas of the Pacific Northwest. McCool, D.K., et al. [1995.eng] 50-3525
- Satellite imagery for soil conservation in the loess plateau. Wang, C.Y., ed. et al. [1990.chi] 50-4165
- Soil degradation in the steppes of northern Mongolia. Opp, C., et al. [1993.eng] 50-1680
- Soils and melon cultivation in Jiashi County, Xinjiang. Li, P.Q., et al. [1991.chi] 50-5123
- Soils of the agricultural areas of Bayingolin Mongol Autonomous Prefecture in Xinjiang. Li, S.H., [1991.chi] 50-5120
- Studies on the soils and land resources of Xinjiang. Xinjiang Institute of Biology, Pedology, and Desert Research of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang shengwu turang shamo yanjiusuo). Urumqi, [1991.chi] 50-5106
- Study of remote sensing application in the loess plateau of north Shaanxi Province. Chinese Academy of Sciences. Institute of Remote Sensing Applications, Beijing (Zhongguo kexueyuan Yaogan yingyong yanjiusuo). [1991.chi] 50-6646
- Study on a high-efficiency new type of urea fertilizer using ^{15}N . Xiong, J.M., et al. [1991.chi] 50-5129
- Study on alfalfa seedling cultivation technology in saline hardpan soil. Ma, S.Z., et al. [1991.chi] 50-5122
- Study on soil erosion in Inner Mongolia. Zhao, Y., et al. [1989.chi] 50-3269
- Study on the causes and control of bitter pit in apples. Yu, Q.L., et al. [1991.chi] 50-5127
- Tall and hard fescue responses to periodic soil water deficits. Brar, G.S., et al. [1995.eng] 50-2475
- Vegetation dynamics and animal behaviour in an alpine pasture of the Garhwal Himalaya. Sundriyal, R.C., [1994.eng] 50-5427
- See [also]: Slope protection; Soil erosion
- Soil creep**
- Axial loading of foundations embedded in frozen soils. Selvadurai, A.P.S., et al. [1995.eng] 50-173
- Behavior of a sand in frozen and unfrozen states. Swan, C.W., [1996.eng] 50-6147
- Cone penetration test (CPT) in cold regions engineering. Fortier, R., et al. [1996.eng] 50-6145
- Creep and creep strength of frozen soil. Ma, W., et al. [1995.eng] 50-4519
- Creep and strength behaviour of frozen swelling clayey soils. Zhang, J.M., et al. [1989.chi] 50-1369
- Creep and yield model of frozen soil under triaxial compression. Fish, A.M., [1995.eng] 50-172
- Creep of frozen soil by damage mechanics. Miao, T.D., et al. [1995.eng] 50-1556
- Discussion of paper by Biggar et al. Juárez-Badillo, E., et al. [1995.eng] 50-582
- Finite element analysis of the creep of debris containing thin ice bodies. Azizi, F., et al. [1995.eng] 50-183
- Frozen soil-structure interfaces. Ladanyi, B., [1995.eng] 50-3806

Soil erosion

- Gelifluction in the alpine periglacial environment of the Tianshan Mountains, China. Liu, G.N., et al. [1996.eng] 50-6704
- Gelifluction rates as global change indicators. Kirkby, M.J., [1995.eng] 50-4195
- Literature review on mechanical properties of frozen soil. Chen, X.S., et al. [1992.eng] 50-26
- Mutual influence of ice heave and interlayer swelling in clay rocks. Final report (draft). Czudza, K.A., et al. [1986.eng] 50-1690
- New method for predicting the long-term strength of frozen soils. Roman, L.T., et al. [1992.eng] 50-27
- Nonlinear creep of artificially frozen Emscher marl. Klein, J., [1978.ger] 50-3852
- Norwegian gelifluction stages from dated buried soils. Nesje, A., [1993.eng] 50-828
- Permafrost foundation creep prediction from cone penetration tests. Ladanyi, B., et al. [1995.eng] 50-1825
- Photoviscoelastic modeling of the creep of frozen soil. Zhao, X.S., et al. [1996.eng] 50-6743
- Rates of heave and surface rotation of periglacial frost boils in the White Mountains, California. Wilkerson, F.D., [1995.eng] 50-3785
- Reinforcing the permafrost foundation of the Gornegrat Observatory. Vonder Mühl, D., et al. [1995.ger] 50-4174
- Seismic refraction soundings 1993 on rock glacier permafrost in north-western Svalbard. Wagner, S., [1995.eng] 50-851
- Some tensile creep characteristics of frozen loess. Shen, Z.Y., et al. [1995.chi] 50-5622
- Study of practicability of photoviscoelastic simulation test for frozen soil's creep. Wang, T.D., et al. [1995.chi] 50-5624
- Triaxial compressive strength of frozen soil under constant deformation rates. Zhu, Y.L., et al. [1989.chi] 50-1368
- Soil dating**
- Aeolian facies belts in the Taklimakan Desert. Li, B.S., et al. [1995.eng] 50-4127
- Alpine glacial history reconstruction in Wyoming and Argentina. Gosse, J.C., [1994.eng] 50-672
- Boundary of permafrost region in east China during last glacial epoch. Xu, S.Y., et al. [1989.chi] 50-1357
- Buried loess in the Bohai Sea bottom and exposed along the coast. Liu, J.P., et al. [1995.chi] 50-4125
- Composition, properties and radiocarbon age of humus in paleosols. Chichagova, O.A., [1995.eng] 50-1047
- Contributions to the glacial history of Liefdefjord/NW Spitsbergen. Furrer, G., [1994.ger] 50-1579
- Dating of Holocene solifluction in the Austrian Alps. Veit, H., [1993.eng] 50-826
- Desert and lake deposits in the Taklimakan Desert. Endo, K., et al. [1991.jpn] 50-1423
- Discussion on the division and correlation of Holocene series in Xinjiang. Bai, M.X., [1985.chi] 50-2007
- Drill cores from Qarhan Salt Lake. Yang, S.X., [1992.chi] 50-1488
- Dynamics of rock glaciers: data from Tröllaskagi, north Iceland. Whalley, W.B., et al. [1995.eng] 50-4833
- Estimating long-term rockfall accretion rates by lichenometry. Luckman, B.H., et al. [1995.eng] 50-4836
- Evolution and age of shorelines along Woodford, northern Spitsbergen. Brückner, H., et al. [1994.eng] 50-1582
- Geomorphological studies on the arid regions of northwest China. Yang, X.P., [1991.ger] 50-2770
- Holocene mass movement on Scottish mountains. Ballantyne, C.K., [1993.eng] 50-831
- Holocene solifluction at Okstundan, northern Norway: a reassessment. Worsley, P., [1993.eng] 50-829
- Holocene solifluction in the Swiss Alps: dating and climatic implications. Gamper, M., [1993.eng] 50-824
- Late Pleistocene environment of north China. Zheng, H.H., et al. [1991.chi] 50-1844
- Late Pleistocene sedimentary environment near Urumqi. Han, S.T., et al. [1985.chi] 50-1998
- Late Quaternary climatic fluctuations of the Venezuelan Andes. Yurelich, R., ed. [1991.eng] 50-5643
- Late Quaternary sediments of the Qinghai-Xizang Plateau. Frenzel, B., et al. [1994.ger] 50-4779
- Lichenometric dating of arc/alpine slope processes. McCarroll, D., [1993.eng] 50-847
- Loess distribution, origin, and chronology. Pécsi, M., [1990.ger] 50-1794
- Loess layer and the palaeoclimate of northern piedmont of Tian Shan. Zhang, H.Y., et al. [1985.chi] 50-2003
- Loess-paleosol dating method. Zhu, Z.Y., [1995.eng] 50-1050
- Norwegian gelifluction stages from dated buried soils. Nesje, A., [1993.eng] 50-828
- On the paleoclimatology of the Tibetan Plateau during the last glaciation. Frenzel, B., [1994.ger] 50-4777
- Paleoclimatic models of Chinese loess and paleosol sequences. Thompson, R., et al. [1995.eng] 50-2542
- Paleoenvironmental implications of modern periglacial eolian deposits. Dijkman, J.W.A., et al. [1991.eng] 50-5172
- Pedogenic processes and evolution of the soils on moraines in alpine periglacial environments. Liu, G.N., et al. [1995.chi] 50-5631
- Postglacial microbiological weathering of granite rocks mountains. André, M.F., [1995.eng] 50-4832
- Postglacial sedimentation in the Liefdefjord area, NW Spitsbergen. Baumhauer, R., et al. [1994.ger] 50-1581
- Preliminary study on fossil dunes in the Qaidam Basin. Zhong, D.C., [1986.chi] 50-1990
- Quaternary eolian deposits at a salt lake in the Qaidam Basin. Wang, J.D., et al. [1986.chi] 50-1994
- Quaternary loess and stratigraphy in Inner Mongolia. Dong, G.R., et al. [1986.chi] 50-1991
- Quaternary of the loess plateau. Sun, J.Z., ed. et al. [1991.chi] 50-2010
- Radiocarbon date list VIII: Canada, Greenland, Iceland, and Antarctica. Manley, W.F., ed. et al. [1996.eng] 50-5927
- Radiocarbon dating of buried soils with particular reference to Holocene solifluction. Matthews, J.A., [1993.eng] 50-846
- Radiocarbon dating of glacial moraines in California. Dorn, R.L., [1996.eng] 50-6098
- Relevance of thermoluminescence dating of Pleistocene loess to volcanic eruptive history. Berger, G.W., et al. [1995.eng] 50-2118
- Solifluction and climate in the Holocene: a North American perspective. Smith, D.J., [1993.eng] 50-834
- Solifluction and climatic variation in the Holocene. Frenzel, B., ed. et al. [1993.eng] 50-823
- Solifluction and climatic variation in the Holocene: discussion and synthesis. Matthews, J.A., et al. [1993.eng] 50-848
- Solifluction in northern Eurasia: a review. Serebrianniy, L.R., et al. [1993.eng] 50-833
- Some paleomagnetic study results in the Kuntzei Lake region of the Qaidam Basin. An, Z.S., [1986.chi] 50-1993
- Stratigraphy of slope deposits and soils in the northeastern Great Basin and vicinity. Kleber, A., [1993.eng] 50-1681
- Study on theoretical problems of peat resources of the Qinghai-Xizang Plateau. Sun, G.Y., [1992.chi] 50-1497
- Thermoluminescence ages of loess and associated sediments in central Nebraska, USA. Pye, K., et al. [1995.eng] 50-2166
- Soil erosion**
- Alpine tree line soil erosion derived from bedrock geomorphological map analysis. Stocker, E., [1996.ger] 50-6678
- Avalanche prevention and soil control in the Mount Krížna area. Midriak, R., [1976.cze] 50-5142
- Case studies of geoprocesses and environmental change in mountains of northern Sweden. Rapp, A., [1995.eng] 50-4187
- Catline rehabilitation and restoration. Bolstad, R., [1971.eng] 50-3245
- Characteristics of the development of thermo-erosional gullies on mid-alassy slopes. Varlamov, S.P., [1996.eng] 50-6405
- Creation of high-productive seeding meadows on disturbed arctic lands. Tikhmenev, E.A., [1991.eng] 50-1744
- Cryogenic state of soil in the cryolithozone (Yakutia). Gavril'ev, P.P., et al. [1996.rus] 50-6844
- Desertification and its control in China. Zhu, Z.D., et al. [1989.chi] 50-1851
- Disturbance and recovery of arctic Alaskan vegetation. Walker, D.A., [1996.eng] 50-4841
- Effect of disturbance on forest soil microbiology in the Himalaya. Joshi, S.R., et al. [1994.eng] 50-5433
- Effects of mammals on ecosystem change at the Pleistocene-Holocene boundary. Zimov, S.A., et al. [1995.eng] 50-3895
- Environmental degradation in the northeastern Qinghai-Xizang Plateau. Zheng, Y.C., [1994.eng] 50-4786
- Estimating snowmelt runoff erosion indices for Canada. Hayhoe, H.N., et al. [1995.eng] 50-967
- Evaluating the stability of natural complexes in tundra under technogenic disturbances. Demanov, V.E., et al. [1994.rus] 50-259
- Forecast of rain erosion of tundra soils on the Yamal Peninsula. Grigorev, V.I.A., et al. [1996.eng] 50-5448
- Forecasting gully erosion in Yamburg. Skubitskaia, M.G., [1996.rus] 50-6406
- Influence of ocean dredging on Barents Sea biota. Matishov, G.G., et al. [1995.eng] 50-3062
- Influence of pocket gophers on the status of nutrients in alpine soils. Litaor, M.L., et al. [1996.eng] 50-4951
- Landscape damage by skiing at the Schauinsland in the Black Forest, Germany. Ries, J.B., [1996.eng] 50-4234
- Late Holocene record of aeolian and fire activity in northern Québec, Canada. Filion, L., et al. [1991.eng] 50-3304
- Means of determining the anti-erosion stability of soil. Vladimirov, V.Kh., [1992.rus] 50-1922
- Method for calculating the anti-erosion stability of tundra soils on the Yamal Peninsula and its basis. Grigorev, V.I.A., et al. [1995.rus] 50-4102
- Method of controlling spring snow thawing on slopes. Fedorov, L., [1993.eng] 50-2238
- Pedogenesis and vegetation in desert areas of Inner Mongolia. Hata, T., [1991.jpn] 50-1441
- Periglacial denudation in the Richardson Mountains. Fried, G., et al. [1993.eng] 50-1675
- Regionalization of territories according to degree of risk to cryogenic processes. Kuznetsova, I.L., et al. [1996.rus] 50-6396
- Resource ecology for soil conservation in the cold deserts of the Himalaya. Gupta, R.K., [1994.eng] 50-5426
- Road-related disturbances in an arctic watershed. Leadley, P.W., et al. [1996.eng] 50-4856
- Runoff and sediment yield under grazing in foothills fescue grasslands of Alberta. Naeth, M.A., et al. [1996.eng] 50-3340
- Runoff index values for frozen soil areas of the Pacific Northwest. McCool, D.K., et al. [1995.eng] 50-3525
- Russian soil depletion by snowmelt. Chernyshev, E.V., et al. [1995.eng] 50-2148
- Satellite imagery for soil conservation in the loess plateau. Wang, C.Y., ed. et al. [1990.chi] 50-4165
- Seasonal freezing and soil erosion during snowmelt. Demidov, V.V., et al. [1995.eng] 50-2714

Soil fluidization

- Sedimentation during needle ice growth in soil. Branson, J., et al. [1996,eng] 50-3646
- Soil degradation in the steppes of northern Mongolia. Opp, C., et al. [1993,eng] 50-1680
- Soil freeze-thaw effects on bank erodibility and stability. Gatto, L.W. [1995,eng] 50-2706
- Study of remote sensing application in the loess plateau of north Shaanxi Province. Chinese Academy of Sciences. Institute of Remote Sensing Applications, Beijing (Zhongguo kexueyuan Yaogan yingyong yanjiusuo). [1991,chi] 50-6646
- Study on soil erosion in Inner Mongolia. Zhao, Y., et al. [1989,chi] 50-3269
- Use of remote sensing spacecraft in real-time support for disaster management. Tortorici Montaperto, A., et al. [1992,eng] 50-620
- Vegetation dynamics and animal behaviour in an alpine pasture of the Garhwal Himalaya. Sundriyal, R.C., [1994,eng] 50-5427

See [also]: Gullies; Soil conservation

Soil fluidization

See [also]: Thixotropy

Soil formation

- Aeolian facies belts in the Taklimakan Desert. Li, B.S., et al. [1995,eng] 50-4127
- Argid of Xinjiang—a calcicorthid soil. Li, S.G., et al. [1991,chi] 50-5113
- Buried loess in the Bohai Sea bottom and exposed along the coast. Liu, J.P., et al. [1995,chi] 50-4125
- Changes in the lithology and pedology of tills from the Warta Glaciation in the Bekhatow mine. Baraniecka, M.D., et al. [1993,pol] 50-3653
- Characteristics and formation of magnesian alkaline soils. Tian, C.Y., et al. [1991,chi] 50-5116
- Characterization of eastern U.S. spruce-fir soils. Fernandez, I.J., [1992,eng] 50-4051
- Chemical weathering in high arctic soils, Spitsbergen. Blümel, W.D., et al. [1994,ger] 50-1593
- Cryogenic fissures as a factor of soil anisotropy. Kulikov, A.I., [1996,eng] 50-5449
- Dating of Holocene solifluction in the Austrian Alps. Veit, H., [1993,eng] 50-826
- Dating of soil development on Sierra Nevada moraines. Bach, A.J., et al. [1996,eng] 50-4630
- Determination of the mineral composition of similar types of paleosols intercalated in loess sequences. Gerei, L., et al. [1995,eng] 50-1044
- Determination of total carbonate content in some representative loess-paleosol profiles. Gerei, L., et al. [1995,eng] 50-1043
- Developmental conditions of the Farnham bog, Québec. Lavoie, M., et al. [1995,fre] 50-4885
- Differentiation of the composition and properties due to podzolization on the Baikal-Patom plateau. Kuz'min, V.A., [1995,eng] 50-3871
- Ecologic-genetic analysis of tundra-steppe soils in northeastern Siberia. Cherniakhovskii, D.A., [1996,eng] 50-5447
- Ecological significance of German mountain periglacial deposits. Frühauf, M., [1990,ger] 50-4565
- Evolution of soils in the basin of the middle reach of the Berlek River (Upper Kolyma River). Pavlov, B.A., et al. [1995,eng] 50-3877
- Forms of unusual patterned ground: examples from the Falkland Islands. South Atlantic. Wilson, P., [1995,eng] 50-2718
- Forms of unusual patterned ground: examples from the Falkland Islands. South Atlantic. Wilson, P., [1995,eng] 50-2718
- Genetic and ecological significance of alpine debris mulch soils. Liu, C.D., [1992,chi] 50-1493
- Geomorphological studies on the arid regions of northwest China. Yang, X.P., [1991,ger] 50-2770
- Holocene climatic, vegetation and pollen data of Siberia adjacent to the Laptev Sea. Naidina, O.D., [1995,eng] 50-2091
- Holocene solifluction in the Swiss Alps: dating and climatic implications. Garper, M., [1993,eng] 50-824
- Identification of paleosol types and their applicability for paleoclimatic reconstructions. Morozova, T., [1995,eng] 50-1046
- Impact of fires on mountain sod-taiga soils under larch forests in Mongolia. Krasnoshechikov, I.U.N., [1995,eng] 50-2715
- Land form development and pedogenesis: the effects of the last glacial cycle in the forest of Fougères (Ille et Villaine, Brittany, France). Van Vliet-Lanoë, B., et al. [1995,fre] 50-2996
- Late Pleistocene soil formation on coastal lowlands of northern Yakutia. Gubin, S.V., [1995,eng] 50-963
- Late Quaternary sediments of the Qinghai-Xizang Plateau. Frenzel, B., et al. [1994,ger] 50-4779
- Lithium and boron geochemistry of salt lakes in the Qaidam Basin. Zheng, X.Y., [1986,chi] 50-1992
- Loess distribution, origin, and chronology. Pécsi, M., [1990,ger] 50-1794
- Loess layer and the palaeoclimate of northern piedmont of Tian Shan. Zhang, H.Y., et al. [1985,chi] 50-2003
- Loess-paleosol dating method. Zhu, Z.Y., [1995,eng] 50-1050
- Mapping of soil groups on Germania Peninsula in Spitsbergen. Eberle, J., et al. [1994,ger] 50-1592
- Mesomorphic soil formation in the cryogenic taiga semihumid sector of central Siberia. Ershov, I.U.I., [1995,eng] 50-2146
- Mineral composition of the fine-dispersed fractions of loess and soil processes developed in them. Chizhikova, N.P., et al. [1995,eng] 50-1042
- Model for the development of sod-podzolic soils by windthrow. Vasenev, I.I., et al. [1995,eng] 50-2712
- Mountain meadow soils of the western Kunlun Mountains. Zhang, L.D., et al. [1991,chi] 50-5114

- Mountain meadow soils of Xizang. Zhang, B., [1991,chi] 50-5115
- Origin of sylvests and salts in the Qaidam Basin. Yang, Q., [1986,chi] 50-1987
- Palaeoecological reconstruction of the Late Pleistocene, based on loess Malacofauna in Hungary. Krollop, E., et al. [1995,eng] 50-1048
- Paleoecological significance of Quaternary permafrost relics in arctic Canada. Murton, J.B., [1996,eng] 50-3645
- Paleoenvironmental implications of modern periglacial eolian deposits. Dijkman, J.W.A., et al. [1991,eng] 50-5172
- Parent materials of Wrangel Island. Oganessian, A.Sh., et al. [1995,eng] 50-1052
- Pedogenesis and vegetation in desert areas of Inner Mongolia. Hatta, T., [1991,jpn] 50-1441
- Pedogenic processes and evolution of the soils on moraines in alpine periglacial environments. Liu, G.N., et al. [1995,chi] 50-5631
- Periglacial overlaying strata in the Bavarian forest. Völkel, J., [1993,eng] 50-1679
- Pleistocene paleosol development in northwest Alaska. Höffe, C., et al. [1996,eng] 50-6517
- Pleistocene soil evolution in a Russian upland. Sycheva, S.A., [1995,eng] 50-2147
- Preliminary study on fossil dunes in the Qaidam Basin. Zhong, D.C., [1986,chi] 50-1990
- Processes in soils and paleosols—a new method for the study of weathering. Nemecek, E., et al. [1995,eng] 50-1037
- Quaternary loess and stratigraphy in Inner Mongolia. Dong, G.R., et al. [1986,chi] 50-1991
- Quaternary of the loess plateau. Sun, J.Z., ed. et al. [1991,chi] 50-2010
- Role of principles and methods in loess-paleosol investigations. Pécsi, M., [1995,eng] 50-1035
- Scottish landform examples. 8: Solifluction sheets in the Bowmont Valley, Cheviot Hills. Harrison, S., [1993,eng] 50-3015
- Simulation of Quaternary loess deposit magnetic profiles. Anderson, R.S., et al. [1996,eng] 50-4584
- Soil development on a glacier foreland, Kerguelen Is. Frenot, Y., et al. [1995,eng] 50-71
- Soil formation in floodplains in high latitudes. Gafurov, F.G., et al. [1992,rus] 50-22
- Soil polygenesis as a function of Quaternary climate change, northern Great Basin, USA. Chadwick, O.A., et al. [1995,eng] 50-1831
- Soil studies in the region of southern Bellsund area (Western Spitsbergen). Klimowicz, Z., et al. [1993,eng] 50-2205
- Soils of Xizang (Tibet). Gao, Y.X., et al. [1985,chi] 50-2297
- Solifluction in the Arctic and subarctic during the Holocene. Van Vliet-Lanoë, B., [1993,eng] 50-844
- Stratigraphy of slope deposits and soils in the northeastern Great Basin and vicinity. Kleber, A., [1993,eng] 50-1681
- Study on theoretical problems of peat resources of the Qinghai-Xizang Plateau. Sun, G.Y., [1992,chi] 50-1497
- Thermal regime of Holocene Greenland ice sheet moraine formation. Van Tatenhove, F.G.M., et al. [1996,eng] 50-5582
- Thermoluminescence ages of loess and associated sediments in central Nebraska, USA. Pye, K., et al. [1995,eng] 50-2166
- Two-year record of eolian sedimentation in the Wind River Range, Wyoming, U.S.A. Dahms, D.E., et al. [1996,eng] 50-5496
- Soil freezing**
- Active layer moisture migration in Alaskan soils. Outcalt, S.I., et al. [1996,eng] 50-4631
- Amine freezing point depressant for soil stabilization. Hemstreet, D.A., et al. [1996,eng] 50-6144
- Application of ground freezing method to two underground projects in water-bearing sand layer. Zhang, N.Z., [1992,eng] 50-41
- Artificial freezing in Tokyo subway construction. Ito, H., et al. [1992,eng] 50-37
- Artificial soil freezing for construction of railroad tunnel. Borkenstein, D., et al. [1992,eng] 50-32
- Axial loading of foundations embedded in frozen soils. Selvadurai, A.P.S., et al. [1995,eng] 50-173
- Behavior of a sand in frozen and unfrozen states. Swan, C.W., [1996,eng] 50-6147
- Calculated and measured air and soil freeze-thaw frequencies. Baker, D.G., et al. [1995,eng] 50-1217
- Calculating method of frost heaving reaction in seasonal frozen ground region. Zhou, Y.C., [1989,chi] 50-1366
- Calculation of frozen wall growth during artificial freezing sinking. Li, S.X., [1995,eng] 50-4521
- Calculation of water transport in the LR 90 test. Onalpi, A., [1977,eng] 50-2325
- Calibration of time domain reflectometry for measurement of liquid water in frozen soils. Seyfried, M.S., et al. [1996,eng] 50-3308
- Characteristics of the crystallization of water in unsaturated soils. Golubev, V.N., [1996,rus] 50-6810
- Cold climate concerns. Part 2. Infrastructure planning and maintenance. Ryan, W.L., [1995,eng] 50-1077
- Cold regions infrastructure: an international imperative for the 21st century. International Conference on Cold Regions Engineering, 8th, Fairbanks, AK, Aug. 12-16, 1996, [1996,eng] 50-6106
- Cold storage of agricultural products in artificial permafrost. Tsuchiya, F., et al. [1992,eng] 50-40

Soil freezing

- Comparison of load restriction timings determined using FHWA guidelines and frost tubes. Yesiller, N., et al. [1996,eng] 50-4752
- Comparison of methods used to create estimate of air-freezing index. Steurer, P.M., et al. [1995,eng] 50-360
- Compilation of the map of seasonal frozen depth in Jilin Province at 1:2,000,000. Zhang, X., et al. [1989,chi] 50-1351
- Computer simulation of heat conduction in freezing and thawing soils. Hashemi, H.T., et al. [1996,eng] 50-4605
- Conception for the rehabilitation of transportation infrastructures in northern regions. Ladanyi, B., [1994,fre] 50-4946
- Creep and strength behaviour of frozen swelling clayey soils. Zhang, J.M., et al. [1989,chi] 50-1369
- Creep and yield model of frozen soil under triaxial compression. Fish, A.M., [1995,eng] 50-172
- Critical height of road embankments in permafrost. An, W.D., et al. [1989,chi] 50-1375
- Cryogenic texture development during freezing of an active layer from beneath. Konstantinov, S.A., [1990,rus] 50-1611
- Dam construction in northern environment: a numerical study. Shen, M., et al. [1996,eng] 50-6168
- Desiccation of white spruce seedlings planted in the southern boreal forest of British Columbia. Krasowski, M.J., et al. [1995,eng] 50-766
- Determining frost heave resistance of pile foundations. Orzechovskii, I.U.R., et al. [1992,eng] 50-38
- Distinguishing features of the phase transformations in saline frozen soils. Frollov, A.D., [1996,eng] 50-6481
- Drilling waste disposal in the Arctic using below-grade freeze-back. Maunders, T.E., et al. [1991,eng] 50-1697
- Dynamic deformation characteristics of undisturbed riverbed gravels. Yasuda, N., et al. [1996,eng] 50-4861
- Effect of chemical composition of soils on the strength and deformability of frozen saline soils. Roman, L.T., [1995,eng] 50-632
- Effects of the variation in suction and heat flow during the frost heaving process. Jones, R.H., [1977,eng] 50-2323
- Elasticity of partially saturated frozen sand. Jacoby, M., et al. [1996,eng] 50-4323
- Electrical freezing potentials measured in a pingo growing in the western Canadian Arctic. Parameswaran, V.R., et al. [1996,eng] 50-5471
- Engineering behavior of frozen swelling soils. Wu, Z.W., et al. [1989,chi] 50-1378
- Essential types of frost heaving development of soils. Xu, X.Z., et al. [1995,eng] 50-4516
- Establishment of a model for predicting unfrozen water content in saline frozen soils. Xu, X.Z., et al. [1995,eng] 50-4517
- Estimating soil temperatures and frost in the lake effect snowbelt region, Michigan, USA. Isard, S.A., et al. [1995,eng] 50-1140
- Evaluation of reducing method of total heave amounts using soil-cement mixtures. Fukuda, M., et al. [1992,eng] 50-25
- Examining the use of time domain reflectometry for measuring liquid water content in frozen soil. Spaans, E.J.A., et al. [1995,eng] 50-2543
- Experimental system for one-dimensional freezing of undisturbed soil profiles. Johnsson, H., et al. [1995,eng] 50-3758
- Field experiments on uplift force on a steel pipe due to frost heaving. Fukuda, M., et al. [1989,rus] 50-2248
- Foundation rehabilitation at ADOT/PP Jim River Maintenance Camp. Rooney, J.W., et al. [1991,eng] 50-1768
- Freeze sinking construction of Xie Qiao coal mine. Zhang, Y.X., [1992,eng] 50-42
- Freeze-thaw dewatering and structural enhancement of fine coal tails. Stahl, R.P., et al. [1995,eng] 50-357
- Freezing and cryogenic heave of finely dispersed soil. Buldovich, S.N., [1996,rus] 50-6815
- Freezing soil textures allowing for compressibility of the unfrozen zone. Gorelik, I.A.B., et al. [1996,eng] 50-6484
- Freezing temperature of soil and unfrozen water content in frozen soil. Tao, Z.X., et al. [1989,chi] 50-1371
- Frost action in subgrades of roads and airfields. Pufahl, D.E., [1996,eng] 50-6188
- Frost characteristic of saline soil and its effect on canals. Feng, T., [1989,chi] 50-1388
- Frost heave along banks of canals. Zhu, Q., et al. [1989,chi] 50-1361
- Frost heave and frost heave force of large U-shaped and concrete lined canals. Li, A.G., [1989,chi] 50-1389
- Frost heave due to ice lens formation in freezing soils. 1. Theory and verification. Sheng, D., et al. [1995,eng] 50-742
- Frost heave due to ice lens formation in freezing soils. 2. Field application. Sheng, D., et al. [1995,eng] 50-743
- Frost heave in subgrade soils of hydraulic structures. Wang, J.G., et al. [1989,chi] 50-1360
- Frost heave prediction in the Netherlands. Post, H.J., [1981,eng] 50-2140
- Frost heave studies by natural freezing. Stenberg, L., [1981,eng] 50-2145
- Frost heave susceptibility in Transbaikalia. Sal'nikov, P.I., [1996,rus] 50-6399
- Frost heave susceptibility of hydraulic structure subgrade soils. Xie, Y.Q., et al. [1989,chi] 50-1391
- Frost heave—testing facilities. Kettle, R.J., [1977,eng] 50-2315
- Frost heaving force of heated buildings. Liu, H.X., [1989,chi] 50-1382
- Frost heaving force on foundations in seasonal frozen ground region. Xu, S.X., [1989,chi] 50-1367

Soil mapping

- Frost heaving of a saturated soil. Ishizaki, T., et al. [1992.eng] 50-36
- Frozen ground structures—basic principles of design. ISGF (International Symposium on Ground Freezing) Working Group 2. [1992.eng] 50-34
- Frozen shaft for nuclear waste disposal in Germany. Jordan, P., et al. [1992.eng] 50-29
- Frozen soil barrier technology. Oak Ridge National Laboratory. Hazardous Waste Remedial Actions Program (HAZWARP). [1995.eng] 50-2793
- Frozen soil-structure interfaces. Ladanyi, B., [1995.eng] 50-3806
- Full depth testing of frost susceptible soils. Final report. Rice, D.C., [1982.eng] 50-1689
- Fundamentals of ice lens formation. Takagi, S., [1975.eng] 50-3390
- Gas pipelines operating at sub-zero temperatures in the UK. Greene, D.P., et al. [1995.eng] 50-178
- Geocryological studies in arctic regions. Vol. 4. Geokriologicheskie issledovaniya v arkticheskikh raionakh; mezhdunarodnyy simpozium, SSSR, Iamburg, Avgust 1989 (Geocryological Studies in Arctic Regions: International Symposium. USSR, Yamburg, August 1989). [1990.rus] 50-2247
- Geocryology research in China in the last decade: review and prospect. Cheng, G.D., [1995.eng] 50-4511
- Ground freezing 91, Vol.2. International Symposium on Ground Freezing, 6th, Beijing, Sep. 10-12, 1991. [1992.eng] 50-23
- Ground temperature and frost heave near Showa Station. Sawagaki, T., [1995.eng] 50-3696
- Groundwater flow and heat conduction in soil around a freeze pipe. Hashemi, H.T., et al. [1966.eng] 50-4606
- Heaving pressures as a means of assessing frost susceptibility. Kettle, R.J., et al. [1981.eng] 50-2142
- Hydraulic properties and frost susceptibility of unsaturated soil. Chen, X.B., et al. [1989.chi] 50-1359
- Ice formation and structure in various freezing soils. Wang, J.C., et al. [1995.eng] 50-4515
- Indirect assessment of frost susceptibility. Hunt, K.G., [1977.eng] 50-2327
- Influence of heating on the frozen depth of building foundation. Hong, Y.P., et al. [1989.chi] 50-1383
- Influence of soil properties on ice-wall formation. Zhang, Y., [1992.eng] 50-30
- Influence of temperature and pressure on cryogenic structure of freezing soil. Wang, J.C., et al. [1995.chi] 50-5636
- Influence of the properties of porous media on the durability of frozen calcareous rocks. Bellanger, M., et al. [1996.eng] 50-4862
- Kinetics of the freezing of water in dispersed soils (experiment, theory). Grechishchev, S.E., et al. [1996.rus] 50-6811
- Liquefaction resistance of silty sand based on in situ frozen samples. Yoshimi, Y., et al. [1996.eng] 50-5080
- Literature review on mechanical properties of frozen soil. Chen, X.S., et al. [1992.eng] 50-26
- Manual for freezing soil heave stress testing unit. Martin, R.T., [1974.eng] 50-4265
- Mathematical model and the Takashi model of soil freezing. Nakano, Y., [1996.eng] 50-6485
- Mathematical model of a freezing wall with freezing pipes. Gao, M., [1989.chi] 50-1400
- Mathematical model of frost heave and thaw settlement in pavements—draft. Guymon, G.L., et al. [1986.eng] 50-4348
- Mathematical model of the freezing-thawing of saline frozen soil. Vasil'ev, V.I., et al. [1996.eng] 50-5268
- Means of developing a frozen ground enclosure around a shaft to be sunk. Boguslavskii, E.I., et al. [1992.rus] 50-1901
- Method for determining the thickness of insulation layer of foundation. Ding, D.W., et al. Lanzhou Institute of Glaciology and Geocryology, Ministry of Railways, Northwest Institute, Heilongjiang Provincial Institute of Water Conservancy, Working Group for Thermal Insulation of Foundations. [1989.chi] 50-1374
- Methods for calculating the temperature field of a freezing wall. Fu, L.D., et al. [1989.chi] 50-1399
- Migration of moisture during the freezing of porous media. Gorelik, I.A.B., et al. [1989.rus] 50-2256
- Minimum depth for building foundations subject to frost heave. Jiang, H.J., et al. [1989.chi] 50-1381
- Model of effects of global warming of water balance of subarctic forest ecosystems. Kellomäki, S., et al. [1996.eng] 50-4750
- Model test of ground temperature variation of embankment. Ye, B.Y., et al. [1989.chi] 50-1396
- Modeling frost heave of roads with a geotextile layer. Konrad, J.M., et al. [1996.eng] 50-5663
- Modelling of ice formation processes in freezing soils. Gorelik, I.A.B., et al. [1996.rus] 50-6813
- Moisture movement and freezing pressures. Hoekstra, P., [1968.eng] 50-1976
- Moisture-based model for calculating daily changes in seasonal soil frost depth. Ryerson, C.C., [1979.eng] 50-3713
- Mutual influence of ice heave and interlayer swelling in clay rocks. Final report (draft). Czarda, K.A., et al. [1986.eng] 50-1690
- New concept in studying and forecasting frost heave. Nevechenia, V.L., [1996.rus] 50-6398
- New method for predicting the long-term strength of frozen soils. Roman, L.T., et al. [1992.eng] 50-27

- Nitrous oxide emission from an agricultural soil subjected to different freeze-thaw cycles. Chen, Y., et al. [1995.eng] 50-5687
- Nonlinear creep of artificially frozen Emscher marl. Klein, J., [1978.ger] 50-3852
- Observations of 'freezing-induced redistribution' in soil lysimeters. Butler, A.P., et al. [1996.eng] 50-6082
- On the direction of soluble salt migration during freezing. Qiu, G.Q., et al. [1989.chi] 50-1373
- On the thermodynamic base for the stability of frozen soil system. Ding, D.W., [1989.chi] 50-1350
- Open graded base to reduce thaw weakening in flexible pavements. Kestler, M.A., [1996.eng] 50-6179
- Pavement design applying allowable frost heave. Saarelainen, S., [1996.eng] 50-6180
- Pavement distress caused by deep heave in Anchorage, Alaska. Tart, R.G., Jr., et al. [1996.eng] 50-6183
- Performance of a passively refrigerated gravel pad foundation in Fairbanks. Adamczak, S., Jr., [1996.eng] 50-6108
- Performance of landfill cover systems in cold climates. Lee, J.Y., [1994.eng] 50-371
- Phase change problems in soil freezing. Li, S.X., [1989.chi] 50-1376
- Phase equilibrium of soil water on the cryolithosphere. Kononov, A.A., [1996.rus] 50-6812
- Physical process and cryogenic texture of soil during freezing. Wang, J.C., et al. [1989.chi] 50-1353
- Physics, mathematics and technology of ice segregation. Arakawa, K., [1981.eng] 50-2138
- Pore-water pressures in freezing and thawing fine-grained soils. Eigenbrod, K.D., et al. [1996.eng] 50-4756
- Predicting the level of frost penetration into landfill covers. Moo-Young, H.K., Jr., et al. [1996.eng] 50-6169
- Prediction of frost heave of roads—a simple empirical model. Setersdal, R., [1981.eng] 50-2139
- Prediction of frost penetration beneath West Virginia pavements. Moulton, L.K., [1968.eng] 50-4549
- Predictive model of frost heave and thaw weakening. Guymon, G.L., et al. [1985.eng] 50-2310
- Preliminary assessment of design and performance of frost susceptibility testing facilities. Dudek, S., [1977.eng] 50-2313
- Preliminary considerations for runoff modelling in GCMS. Verseghe, D., [1994.eng] 50-5701
- Preliminary study on the calculation of deformation of frozen wall. Mi, H.Z., [1989.chi] 50-1397
- Probability distributions used in 100-year return period of air-freezing index. Steurer, P.M., [1996.eng] 50-4753
- Problem of primary frost heave with frost penetration. Ding, Z.Z., [1995.eng] 50-2162
- Proceedings. Chinese National Conference on Permafrost, 3rd, Harbin, China, Aug. 19-24, 1986. [1989.chi] 50-1340
- Proceedings. International Symposium on Thermal Engineering and Sciences for Cold Regions, 5th, Ottawa, May 19-22, 1996. [1996.eng] 50-6428
- Protection of arctic bridge crossing by refrigerated foundation. Christopherson, A.B., et al. [1991.eng] 50-1734
- Rapid test for the determination of frost susceptibility of soils. Leary, R.M., [1977.eng] 50-4259
- Recent ground freezing in Scandinavia. Berggren, A.L., [1992.eng] 50-35
- Review of papers from previous conferences on heat and mass transfer in freezing soils. Fukuda, M., et al. [1992.eng] 50-24
- Review of papers on artificial freezing in shaft sinking. Harris, J.S., [1992.eng] 50-31
- Review of papers on engineering problems of frozen ground. Thimus, J.F., [1992.eng] 50-28
- River discharge and soil freezing depth during winter in Heilongjiang. Liu, F.S., [1989.chi] 50-1352
- Role of soil microstructure in the geotechnical properties of freezing soils. White, T.L., et al. [1996.eng] 50-6483
- Sand liquefaction strength obtained by in situ freezing. Hatanaka, M., et al. [1995.eng] 50-1179
- Sedimentation during needle ice growth in soil. Branson, J., et al. [1996.eng] 50-3646
- Sinking of main shaft in Chengsilou Mine without freeze tube breakage. Pang, R.Q., [1992.eng] 50-39
- Soil freezing on the outside of a vertical two-phase closed thermosiphon. Gu, W.B., et al. [1996.eng] 50-6494
- Soil frost heave and bearing tests. Lausanne, Switzerland. Federal Institute of Technology. Laboratory of Soil Mechanics. (École Polytechnique Fédérale de Lausanne. Laboratoire de mécanique des sols) (Eidgenössische Technische Hochschule). [1988.fre] 50-1669
- Soil water pressure measurements in subzero air temperatures. Gorden, D.S., et al. [1995.eng] 50-420
- Sources of variability in a constant boundary temperature frost heave test. Lomas, K.J., [1981.eng] 50-2143
- Stress and temperature effects on silt frost heave. Marandi, S.M., et al. [1996.eng] 50-6109
- Stress calculation of frozen wall with viscoelastic plastic theory. Lou, G.D., [1989.chi] 50-1398
- Study and engineering practice of enclosed foundation of sluice. Yu, B.F., et al. [1989.chi] 50-1390
- Study of deformation properties of freezing and thawing soils for cold weather construction. Ganeles, L.B., et al. [1989.rus] 50-2252
- Study on characteristics of moisture migration in saturated freezing soil. Xu, X.Z., et al. [1989.chi] 50-1372

- Study on horizontal frost heaving force of retaining wall in seasonal frozen ground region. Sui, T.L., et al. [1989.chi] 50-1365
- Study on tangential frost heaving forces on the reinforced concrete bridge pile foundation. Dai, H.M., et al. [1989.chi] 50-1362
- Surface modifications to reduce thaw degradation of permafrost. Zarling, J.P., et al. [1996.eng] 50-6111
- Tangential frost heave forces on reinforced concrete piles. Sun, Y.L., et al. [1989.chi] 50-1363
- Temperatures and stresses in frost susceptible soil around a chilled pipeline. Coutts, R.J., [1991.eng] 50-70
- Temporal weather impacts upon exterior intrusion detection systems. Ryerson, C.C., et al. [1995.eng] 50-4544
- Tensile adfreezing strength between frozen soil and foundation. Ding, J.K., et al. [1989.chi] 50-1370
- Test standard and design value of normal frost heaving force. Tong, C.J., et al. [1989.chi] 50-1364
- Testing facilities—self refrigerating units. Frost cabinet temperature distribution. Hill, J., [1977.eng] 50-2314
- Testing methods for frozen soils. ISGF (International Symposium on Ground Freezing) Working Group 1, [1992.eng] 50-33
- Thermal equilibrium in freezing unsaturated porous media. Tao, Y.X., et al. [1993.eng] 50-3362
- Thermal impact of a buried chilled gas pipeline. Raad, L., et al. [1996.eng] 50-6124
- Thermal stability of the freezing front in porous media such as soils. Bronfenbrenner, L., et al. [1996.eng] 50-6479
- Triaxial compressive strength of frozen soil under constant deformation rates. Zhu, Y.L., et al. [1989.chi] 50-1368
- Tunnel completed under Storebælt Strait. Wallis, S., [1995.eng] 50-143
- Two methods for the determination of lateral stress in sand. Hatanaka, M., et al. [1995.eng] 50-1180
- Unfrozen water content of soil containing NaCl relating to freezing-thawing processes. Zhang, L.X., et al. [1995.chi] 50-5637
- Use of frozen ground techniques in construction. Sanger, F.J., [1967.eng] 50-2478
- Vertical migration of diesel into silty sand subject to cyclic freeze-thaw. Biggar, K.W., et al. [1996.eng] 50-6117
- Winter effects on hydraulic conductivity of compacted clay—discussion. Day, R.W., et al. [1996.eng] 50-5207
- Winter methane dynamics in a temperate peatland. Melloh, R.A., et al. [1996.eng] 50-6052
- World's first artificial ice plug for a hydro tunnel. Berggren, A.L., et al. [1995.eng] 50-5708
- Soil mapping**
- General summary of the "Xinjiang 1:1,000,000 land resources map". Ji, F., et al. [1991.chi] 50-5108
- Geographic information system for SILMU and the modelling of soil carbon flows. Alm, J., et al. [1994.eng] 50-3230
- Ground penetrating radar study of peat stratigraphy. Nobes, D.C., et al. [1992.eng] 50-63
- Mapping of land use in the Taklimakan Desert. Sugihara, S., [1991.jpn] 50-1427
- Mapping of soil groups on German Peninsula in Spitsbergen. Eberle, J., et al. [1994.ger] 50-1592
- Permafrost distribution in the northern hemisphere under scenarios of climatic change. Anisimov, O.A., et al. [1996.eng] 50-6619
- Russian soil geography as indicated by a new detailed map. Andronikov, V.L., et al. [1995.eng] 50-3873
- Soil studies in the region of southern Bellsund area (Western Spitsbergen). Klimowicz, Z., et al. [1993.eng] 50-2205
- Space imagery as a basis for modeling the dynamics of thermokarst lake plains. Viktorov, A.S., [1996.eng] 50-6647
- Study of remote sensing application in the loess plateau of north Shaanxi Province. Chinese Academy of Sciences. Institute of Remote Sensing Applications. Beijing (Zhongguo kexueyuan Yaogan yingyong yanjiusuo). [1991.chi] 50-6646
- Study on the remote sensing information model of soil moisture. Ma, A.N., et al. [1990.chi] 50-6661
- Soil mechanics**
- Analyzing the stability of soil-vegetation cover under mechanical forces. Zvereva, T.S., [1994.rus] 50-273
- Centrifuge modeling and numerical simulation of ice scour. Yang, Q.S., et al. [1996.eng] 50-5936
- Correlation between Pleistocene involutions in English soil and Canadian thermokarst. Murton, J.B., et al. [1995.eng] 50-1803
- Cryogenic movements of soil in Hornsund. Klementowski, J., [1989.pol] 50-2899
- Cyclic direct simple shear testing of a Beaufort Sea clay. McCarron, W.O., et al. [1995.eng] 50-579
- Danger of pollution of arable soils in Russia by pesticides. Bogdanova, M.D., et al. [1995.rus] 50-3973
- Drilling smaller surface holes results in substantial cost savings. Krawietz, T.E., et al. [1991.eng] 50-1739
- Effects of freeze-thaw cycles on the properties of a sensitive clay. Roy, M., et al. [1995.fre] 50-581
- Engineering geological characteristics of solifluctive soil (Yamal Peninsula). Platov, N.A., et al. [1985.rus] 50-244
- Field observations of frost action in intact and weathered Champlain Sea clay. Konrad, J.M., et al. [1995.eng] 50-580
- Holocene mass movement on Scottish mountains. Ballantyne, C.K., [1993.eng] 50-831
- Holocene solifluction at Okstindan, northern Norway: a reassessment. Worsley, P., [1993.eng] 50-829

Soil microbiology

Soil pollution

- Pore size effects on road subgrade frost susceptibility. Wood, L.E., et al. [1982,eng] 50-2028
- Relation between permeability and pore size distribution of compacted clayey silts. Garcia-Bengochea, I., [1978,eng] 50-2802
- Resilient modulus of cohesive soils and the effect of freeze-thaw. Lee, W.J., et al. [1995,eng] 50-578
- Sedimentation during needle ice growth in soil. Branson, J., et al. [1996,eng] 50-3646
- Solifluction and climate in the Holocene: a North American perspective. Smith, D.J., [1993,eng] 50-834
- Solifluction in northern Eurasia: a review. Serebrianniy, L.R., et al. [1993,eng] 50-833
- Solifluction in northern Finland: past and present. Seppälä, M., [1993,eng] 50-830
- Two methods for the determination of lateral stress in sand. Hatanaka, M., et al. [1995,eng] 50-1180
- See [also]: Frozen ground mechanics
- Soil microbiology**
- Antagonism of bacteria isolated from the soils of Western Spitsbergen, Bellsund region. Józwiak, Z., [1993,eng] 50-2187
- Arctic soil microbial biomass response to fertilizer additions. Jonasson, S., et al. [1996,eng] 50-6230
- Bacterial activity in the Schirmacher Ponds in summer. Ramiah, N., [1995,eng] 50-1281
- Bacterial population in mineral soils from Antarctica and its relations to organic nutrients. Böller, M., [1989,pol] 50-2925
- Biofluffing—enhancing biological remediation of near-surface spills by augering. Stehmeier, L., et al. [1996,eng] 50-5567
- Biological remediation of shoreline oily waste from marine spills. Labrie, P., et al. [1990,eng] 50-474
- Bioreactor with liquid suspensions of *Alcaligenes eutrophus* JMP134. McKay, D.J., et al. [1995,eng] 50-5660
- Bioremediation of a petroleum-contaminated cryic soil. Walworth, J.L., et al. [1995,eng] 50-781
- Cold climate applications of bioventing. Ong, S.K., et al. [1994,eng] 50-1474
- Control of tundra methane emission by microbial oxidation. Whalen, S.C., et al. [1996,eng] 50-4850
- Decomposition of soil surface lichens in mountain tundra and taiga. Parinkina, O.M., et al. [1995,eng] 50-3875
- Ecosystem consequences of microbial diversity and community structure. Schimel, J.P., [1995,eng] 50-3903
- Effect of disturbance on forest soil microbiology in the Himalaya. Joshi, S.R., et al. [1994,eng] 50-5433
- Effect of drainage intensity and fertilization on peat carbon compounds and their mineralization. Karsisto, M., et al. [1994,eng] 50-3225
- Effect of root fungi on subarctic plant growth. Fernando, A.A., et al. [1996,eng] 50-6747
- Fertilizers and enzyme activity of Jiashi melon field soils. Yue, H.X., et al. [1991,chi] 50-5126
- Fungal hyphal length in litter of *Dryas octopetala* in high-arctic polar semi-desert, Svalbard. Robinson, C.H., et al. [1996,eng] 50-4010
- Growth temperature preferences of fungal strains from Victoria Land, Antarctica. Zucconi, L., et al. [1996,eng] 50-4009
- In situ remediation of hydrocarbon contaminated soil and groundwater. Gould, T.F., et al. [1996,eng] 50-6116
- Innovative bioventing system construction/operation in cold regions. Strickland, K.K., et al. [1996,eng] 50-6136
- Isotope analysis of variable subarctic plant nutrient access. Michelsen, A., et al. [1996,eng] 50-5772
- Leaf extract allelopathic effects on arctic graminoids. Michelsen, A., et al. [1995,eng] 50-1091
- Lichens of alpine meadows on the Beartooth Plateau, Montana and Wyoming. U.S.A. Eversman, S., [1995,eng] 50-2815
- Low summer temperatures: a potential mortality factor for high arctic soil microarthropods? Coulson, S.J., et al. [1995,eng] 50-1178
- Low temperature ecology of a plant root bacterium. Sun, X.Y., et al. [1995,eng] 50-2733
- Methanogenesis at low temperatures by microflora of tundra wetland soil. Kotsiurbenko, O.R., et al. [1996,eng] 50-5156
- Microbial activity of tundra and taiga soils at sub-zero temperatures. Clein, J.S., et al. [1995,eng] 50-2025
- Microbial life in permafrost: a historical review. Gilichinski, D.A., et al. [1996,eng] 50-6701
- Microbial responses to nitrogen additions in alpine tundra soil. Fisk, M.C., et al. [1996,eng] 50-6065
- Modeling decomposition in arctic ecosystems. Moorhead, D.L., et al. [1996,eng] 50-4854
- Nitrogen fixation in arctic vegetation and soils from Svalbard, Norway. Solheim, B., et al. [1996,eng] 50-4007
- Niwot Ridge snow fence experiment: biogeochemical response to changes in the seasonal snowpack. Brooks, P.D., et al. [1995,eng] 50-2421
- Nutrient availability and uptake by tundra plants. Schimel, J.P., et al. [1996,eng] 50-4848
- Nutrient availability in Alaskan upland forest sites. Yarie, J., et al. [1994,eng] 50-4798
- Organic compounds in a permafrost sediment core from Siberia. Matsumoto, G.I., et al. [1995,eng] 50-3844
- Oxygen supplies for bioremediation in tundra soils. White, D.M., et al. [1996,eng] 50-6135
- Petroleum hydrocarbon removal via volatilization and biodegradation at McGrath, Alaska. Ramert, P.C., et al. [1996,eng] 50-6115
- Plant effects on arctic ecosystem biogeochemical processes. Hobbie, S.E., [1995,eng] 50-3901
- Postglacial microbiological weathering of granite roches moutonnées. André, M.F., [1995,eng] 50-4832
- Potential for bioremediation of fuel-contaminated soil in Antarctica. Wardell, L.J., [1995,eng] 50-782
- Potential for greater use of wetlands for waste treatment in northern Canada. Doku, I.A., et al. [1995,eng] 50-361
- Properties of antarctic maritime and coastal soils. Böller, M., et al. [1995,eng] 50-2567
- Reestablishing the trophic function of soils in disturbed territories in the North. Popov, A.I., et al. [1994,rus] 50-275
- Review of bioremediation experience in Alaska. Kellems, B.L., et al. [1994,eng] 50-1473
- Russian-German Taymyr Expedition, 1994. Siegert, C., et al. [1995,eng] 50-1549
- Selection of cold-tolerant plants for growth in soils contaminated with organics. Rogers, H.B., et al. [1995,eng] 50-4609
- Soil bioremediation at CFB Trenton: evaluation of bioremediation processes. Ouellette, L., et al. [1996,eng] 50-5566
- Temperature elevation effects on arctic soil insects. Coulson, S.J., et al. [1996,eng] 50-3529
- Thermal environments of arctic soil organisms during winter. Coulson, S.J., et al. [1995,eng] 50-2811
- Transformation of an enzyme pool in cultivated podsol soil. Freger, V.M., [1994,rus] 50-279
- Soil moisture**
- See [also]: Soil water
- Soil physics**
- Analyzing the transformation of organic matter in anthropogenically altered soil. Popov, A.I., et al. [1994,rus] 50-276
- Cement and lime for deep stabilization of soil. A chemical-physical study of stabilization effects. Åhnberg, H., et al. [1995,swe] 50-2168
- Correction to paper by Grant et al. [1996,eng] 50-5968
- Effect of aging on the penetration resistance of sands. Joshi, R.C., et al. [1995,eng] 50-1823
- Effect of mode of compaction on frost heave. Burns, J., [1977,eng] 50-2318
- Effect of water-table position on frost heave. Burns, J., [1977,eng] 50-2326
- Estimating soil temperatures and frost in the lake effect snow-belt region, Michigan, USA. Isard, S.A., et al. [1995,eng] 50-1140
- Formation of ice between hydrotalcite particles measured by thermoporometry. Titulaer, M.K., et al. [1996,eng] 50-6330
- Frost heave prediction in the Netherlands. Post, H.J., [1981,eng] 50-2140
- Heaving pressures and frost heave. Kettle, R.J., [1977,eng] 50-2324
- Laboratory technique for measurement of spectral induced polarization response of soil samples. Vanhala, H., et al. [1995,eng] 50-2998
- Model for the development of sod-podzolic soils by windthrow. Vasenev, I.I., et al. [1995,eng] 50-2712
- Proceedings. Colloquium on Frost Heave Testing and Research. Nottingham, England, May 18, 1977. [1977,eng] 50-2311
- Radiocarbon dating of buried soils with particular reference to Holocene solifluction. Mathews, J.A., [1993,eng] 50-846
- Sand liquefaction strength obtained by in situ freezing. Hatanaka, M., et al. [1995,eng] 50-1179
- Simulation of soil moisture variations reflecting the hydrological cycle. Akinremi, O.O., et al. [1996,eng] 50-5918
- Soil geomorphology on Alaskan permafrost terrain. Swanson, D.K., [1996,eng] 50-6518
- Soil polygenesis as a function of Quaternary climate change, northern Great Basin, USA. Chadwick, O.A., et al. [1995,eng] 50-1831
- Soil studies in the region of southern Bellsund area (Western Spitsbergen). Klimowicz, Z., et al. [1993,eng] 50-2205
- Soil water pressure measurements in subzero air temperatures. Gorden, D.S., et al. [1995,eng] 50-420
- Statistical analysis of Thayer Hill Road heave data. Harr, M.E., et al. [1995,eng] 50-2030
- Temperature effects on porous solid capillary functions. Grant, S.A., et al. [1996,eng] 50-5965
- Transformation of an enzyme pool in cultivated podsol soil. Freger, V.M., [1994,rus] 50-279
- Use of fractal parameters to detect active layer heat transfer. Hinkel, K.M., et al. [1995,eng] 50-1138
- See [also]: Frozen ground physics; Permafrost physics
- Soil pollution**
- Adsorption-desorption of TNT and RDX in soils. Xue, S.K., et al. [1995,eng] 50-1686
- Alaska pipeline oil spill contingency plan. Aliyeska Pipeline Service Company, Anchorage, AK, [1991,eng] 50-850
- Alternatives for closure of solid oily waste sites on the North Slope of Alaska. Kellems, B.L., et al. [1991,eng] 50-1709
- Analysis of the ecological status in the Ladoga Lake basin. Rumiantsev, V.A., et al. [1992,rus] 50-385
- Analysis of the Komiheft pipeline oil. Lambert, P., et al. [1995,eng] 50-5734
- Analysis of the water and salt balance of the irrigated areas in the Yangi Basin. Song, Y.D., et al. [1991,chi] 50-5121
- Analytical methods for explosives contamination on army installations. Jenkins, T.F., et al. [1995,eng] 50-1094
- Analyzing the composition of ecosystems of land in the Noril'sk industrial region. Igamberdiev, V.M., et al. [1994,rus] 50-277
- Biofluffing—enhancing biological remediation of near-surface spills by augering. Stehmeier, L., et al. [1996,eng] 50-5567
- Biogeochemistry of heavy metals in the Arctic. Dobrovolskiy, V.V., [1995,rus] 50-3971
- Biological remediation of shoreline oily waste from marine spills. Labrie, P., et al. [1990,eng] 50-474
- Bioreactor with liquid suspensions of *Alcaligenes eutrophus* JMP134. McKay, D.J., et al. [1995,eng] 50-5660
- Bioremediation of a petroleum-contaminated cryic soil. Walworth, J.L., et al. [1995,eng] 50-781
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995,eng] 50-1863
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al. [1995,eng] 50-5717
- Cleansing role of clay-oil flocculation in shoreline sediments following an oil spill. Bragg, J.R., et al. [1995,eng] 50-3918
- Cleanup assessment of the pipeline oil spill on the Kova River. Sienkiewicz, A.M., et al. [1996,eng] 50-5570
- Cold climate applications of bioventing. Ong, S.K., et al. [1994,eng] 50-1474
- Comparison of shoreline assessment study designs used for the Exxon Valdez oil spill. Gilfillan, E.S., et al. [1996,eng] 50-5554
- Contamination of groundwaters. Adriano, D.C., ed. et al. [1994,eng] 50-5515
- Danger of pollution of arable soils in Russia by pesticides. Bogdanova, M.D., et al. [1995,rus] 50-3973
- Deposition of semivolatile organic chemicals by snow. Franz, T.P., Jr., [1994,eng] 50-372
- Development of a field method for ammonium picrate/picric acid in soil and water. Thorne, P.G., et al. [1995,eng] 50-2440
- Development of a field method for quantifying ammonium picrate and picric acid in soil and water. Thorne, P.G., et al. [1995,eng] 50-1152
- Development of colorimetric field screening methods for munitions compounds in soil. Jenkins, T.F., et al. [1995,eng] 50-1095
- Dirty oil makes a feast for soil bacteria. Kiernan, V., [1996,eng] 50-4872
- Dispersion-by-chemical-reaction technology to stabilize asphalt tar. Brar, G.S., et al. [1995,eng] 50-727
- Distinguishing natural organics from diesel contaminants in soils. Dworjan, P., [1996,eng] 50-6113
- Distribution of cesium-137 in Bering and Chukchi Sea marine sediments. Cooper, L.W., et al. [1995,eng] 50-5062
- Disturbance and recovery of arctic Alaskan vegetation. Walker, D.A., [1996,eng] 50-4841
- Dredging Eagle River Flats: remediation study in an active impact area. Walsh, M.R., [1996,eng] 50-5913
- Drilling wastes management for Alaska's North Slope. Fristoe, B.R., [1991,eng] 50-1723
- Effect of acid snow and acid rain on the soils and others in Niigata Prefecture. Taguchi, Y., et al. [1996,jpn] 50-5801
- Effect of deicers on roadside trees in Hokkaido. Miyamoto, S., et al. [1995,jpn] 50-6788
- Effect of the polarization of studless tires on the road environment. Mima, H., et al. [1995,jpn] 50-6790
- Effects of deicing salt on vegetation along highways in Sweden. Backman, L., et al. [1995,eng] 50-4602
- Effects of the Exxon Valdez oil spill on subtidal sediments in bays. Page, D.S., et al. [1996,eng] 50-5563
- Enhanced preservation of volatile organic compounds in soil with sodium bisulfate. Hewitt, A.D., [1995,eng] 50-2566
- Fate of oil determinations under arctic conditions: the Komi pipeline oil spill experience. Nadeau, R.J., et al. [1995,eng] 50-5732
- Field test of waste oil combustion and empty drum cleaning at Alexandra Fiord, NWT. McCourt, J., et al. [1996,eng] 50-5565
- Handling practice effects on soil sample chemistry. Hewitt, A.D., [1996,eng] 50-5962
- Heavy metal concentrations in peat profiles from the high Arctic. Headley, A.D., [1996,eng] 50-3721
- Holding-time estimates for soils containing explosives. Grant, C.L., et al. [1995,eng] 50-944
- Impact of deicing chemicals on plants in Hokkaido. Miyamoto, S., et al. [1994,jpn] 50-2828
- In situ remediation of hydrocarbon contaminated soil and groundwater. Gould, T.F., et al. [1996,eng] 50-6116
- Indicators of soil polluted by heavy metals. El'kina, G.I.A., et al. [1994,rus] 50-274
- Innovative bioventing system construction/operation in cold regions. Strickland, K.K., et al. [1996,eng] 50-6136
- Integrated approach to shoreline mapping for spill response planning. Owens, E.H., et al. [1996,eng] 50-5561
- Komi oil spill—an assessment by a multi-national team. Devanis, P.K., [1995,eng] 50-5731
- Large volume oil spill on land surface: the Vozey oil field, Russia. Zoltai, S.C., et al. [1995,eng] 50-5733
- Long-term plant persistence on highly acidic soils. Palazzo, A.J., et al. [1995,eng] 50-5593
- Management of shoreline protection and treatment operations. Owens, E.H., [1996,eng] 50-5562
- Material interactions when sampling groundwater. Parker, L.V., [1995,eng] 50-2456
- Modeling of contaminant transport in groundwater in areas of discontinuous permafrost. Johnson, R., et al. [1996,eng] 50-6114
- Natural cleaning of oiled coarse sediment shorelines in arctic and Atlantic Canada. Owens, E.H., et al. [1994,eng] 50-6231

Soil pressure

- Oil on shorelines and shoreline treatment: a state-of-knowledge review. Owens, E.H., et al. [1996,eng] 50-5560
- Oil recovery and nearshore protection in Prince William Sound. Hood, S.D., [1995,eng] 50-5721
- Overview of environmental and hydrogeologic conditions at Bethel, Alaska. Dorava, J.M., et al. [1995,eng] 50-2484
- Overview of environmental and hydrogeologic conditions at Bettles Field, Alaska. Cowan, J.R., [1995,eng] 50-2492
- Overview of environmental and hydrogeologic conditions at Chandalar Lake, Alaska. Cowan, J.R., [1995,eng] 50-2497
- Overview of environmental and hydrogeologic conditions at Cold Bay, Alaska. Rice, W.A., et al. [1995,eng] 50-2489
- Overview of environmental and hydrogeologic conditions at Farewell Bend, Alaska. Dorava, J.M., et al. [1995,eng] 50-2485
- Overview of environmental and hydrogeologic conditions at Fort Yukon, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2482
- Overview of environmental and hydrogeologic conditions at Galena, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2481
- Overview of environmental and hydrogeologic conditions at Hinchinbrook Island, Alaska. Dorava, J.M., et al. [1995,eng] 50-2486
- Overview of environmental and hydrogeologic conditions at Iliamna, Alaska. Hall, J.D., [1995,eng] 50-2495
- Overview of environmental and hydrogeologic conditions at Nome, Alaska. Dorava, J.M., [1995,eng] 50-2488
- Overview of environmental and hydrogeologic conditions at Puntila Lake, Alaska. Dorava, J.M., et al. [1995,eng] 50-2487
- Overview of environmental and hydrogeologic conditions at Sitka, Alaska. Hogan, E.V., [1995,eng] 50-2494
- Overview of environmental and hydrogeologic conditions at Tanana, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2483
- Overview of environmental and hydrogeologic conditions at Unalakleet, Alaska. Dorava, J.M., [1995,eng] 50-2496
- Overview of environmental and hydrogeologic conditions at Wrangell, Alaska. Hogan, E.V., [1995,eng] 50-2493
- Overview of environmental and hydrogeologic conditions near Big Delta, Alaska. Nelson, G.L., [1995,eng] 50-2490
- Overview of environmental and hydrogeologic conditions near Petersburg, Alaska. Hogan, E.V., [1995,eng] 50-2491
- Overview of the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Hartley, A.E., Sr., [1996,eng] 50-5568
- Oxygen supplies for bioremediation in tundra soils. White, D.M., et al. [1996,eng] 50-6135
- Periglacial overlying strata in the Bavarian forest. Völkel, J., [1993,eng] 50-1679
- Persistence of white phosphorus particles in sediment. Walsh, M.E., et al. [1995,eng] 50-878
- Petroleum hydrocarbon removal via volatilization and biodegradation at McGrath, Alaska. Ramert, P.C., et al. [1996,eng] 50-6115
- Phyto-rectification of technologically disturbed lands. Valeeva, E.I., [1994,rus] 50-293
- Potential for bioremediation of fuel-contaminated soil in Antarctica. Wardell, L.J., [1995,eng] 50-782
- Pre-analysis of soil organic compound holding times. Hewitt, A.D., [1996,eng] 50-5961
- Preservation of volatile organic compounds for testing in soil samples. Hewitt, A.D., [1995,eng] 50-780
- Prince William Sound intertidal biota—good news and bad news five years later. Houghton, J.P., et al. [1995,eng] 50-5730
- Problems of protection and restoration of land resources in the Komi Republic. Ermakov, A.A., et al. [1994,rus] 50-252
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 18th, Edmonton, Alberta, June 14-16, 1995, [1995,eng] 50-5715
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 19th, Calgary, Alberta, June 12-14, 1996, [1996,eng] 50-5551
- Proceedings. Arctic and Marine Oilspill Program Technical Seminar, 13th, Edmonton, Alberta, June 6-8, 1990, [1990,eng] 50-466
- Rapid screening of metals using portable high-resolution x-ray fluorescence spectrometers. Hewitt, A.D., [1995,eng] 50-1075
- Remediation of a hydrocarbon spill in Alberta. Mitton, M.J., et al. [1995,eng] 50-5725
- Report on acidification in the arctic countries. Nenonen, M., [1991,eng] 50-3418
- Response operations on the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Stillings, W.L., [1996,eng] 50-5569
- Review of bioremediation experience in Alaska. Kellems, B.L., et al. [1994,eng] 50-1473
- Sample representativeness: The missing element in explosives site characterization. Jenkins, T.F., et al. [1996,eng] 50-5960
- Searching for ways of stimulating oil biodegradation in soil. Kazakova, E.N., et al. [1994,rus] 50-281
- Selection of cold-tolerant plants for growth in soils contaminated with organics. Rogers, H.B., et al. [1995,eng] 50-4609
- Shoreline clean-up techniques—Exxon Valdez operations. Nauman, S.A., [1990,eng] 50-478
- Shoreline cleanup following the Exxon Valdez oil spill. Owens, E.H., et al. [1990,eng] 50-476
- Shoreline cleanup following the Exxon Valdez oil spill. Teal, A.R., [1990,eng] 50-477
- Shoreline monitoring following the Exxon Valdez incident. Owens, E.H., et al. [1990,eng] 50-480
- Simple field screening method for white phosphorus (P₄) in sediment. Walsh, M.E., et al. [1995,eng] 50-2328

- Smoke plume trajectory from *in situ* burning of crude oil in Alaska—field experiments. McGrattan, K.B., et al. [1995,eng] 50-5727
- Soil bioremediation at CFB Trenton: evaluation of bioremediation processes. Ouellette, L., et al. [1996,eng] 50-5566
- Solid phase extraction of nitroaromatics from water. Jenkins, T.F., et al. [1995,eng] 50-1977
- Spray freezing to treat oil sands tailings pond water. Gao, W., et al. [1996,eng] 50-6112
- Stranded oil persistence in cold climates. Humphrey, B., et al. [1990,eng] 50-475
- Subsurface Oil in Coarse Sediments Experiments (SOCSEX II). Harper, J.R., et al. [1995,eng] 50-5726
- Suggested improvements to oil spill response planning. Owens, E.H., [1990,eng] 50-479
- Transport of TNT and RDX in soils. Selim, H.M., et al. [1995,eng] 50-1688
- Use of surfactants in oil spill remediation in cold regions. Tumeo, M.A., et al. [1995,eng] 50-5723
- Vertical migration of diesel into silty sand subject to cyclic freeze-thaw. Biggar, K.W., et al. [1996,eng] 50-6117
- VOC determination in soils prepared by vapor fortification. Hewitt, A.D., et al. [1995,eng] 50-2441
- X ray fluorescence screening for metals in soil. Hewitt, A.D., [1995,eng] 50-2442
- Soil pressure**
- Calculating method of frost heaving reaction in seasonal frozen ground region. Zhou, Y.C., [1989,chi] 50-1366
- Earth dams under confining pressure subject to freeze thaw. Ota, H., et al. [1995,jpn] 50-6735
- Frost heaving force on foundations in seasonal frozen ground region. Xu, S.X., [1989,chi] 50-1367
- Frost heaving of a saturated soil. Ishizaki, T., et al. [1992,eng] 50-36
- Heaving pressures and frost heave. Kettle, R.J., [1977,eng] 50-2324
- Heaving pressures as a means of assessing frost susceptibility. Kettle, R.J., et al. [1981,eng] 50-2142
- Moisture movement and freezing pressures. Hoekstra, P., [1968,eng] 50-1976
- Proceedings. Colloquium on Frost Heave Testing and Research. Nottingham, England, May 18, 1977, [1977,eng] 50-2311
- Study on horizontal frost heaving force of retaining wall in seasonal frozen ground region. Sui, T.L., et al. [1989,chi] 50-1365
- Study on tangential frost heaving forces on the reinforced concrete bridge pile foundation. Dai, H.M., et al. [1989,chi] 50-1362
- Tangential frost heave forces on reinforced concrete piles. Sun, Y.L., et al. [1989,chi] 50-1363
- Test standard and design value of normal frost heaving force. Tong, C.J., et al. [1989,chi] 50-1364
- Two methods for the determination of lateral stress in sand. Hatanaka, M., et al. [1995,eng] 50-1180
- Soil profiles**
- Cryogenic fissures as a factor of soil anisotropy. Kulikov, A.I., [1996,eng] 50-5449
- Dating of soil development on Sierra Nevada moraines. Bach, A.J., et al. [1996,eng] 50-4630
- Determination of total carbonate content in some representative loess-paleosol profiles. Gerei, L., et al. [1995,eng] 50-1043
- Diagnostics of solonchaks: a class of salt-rich soils. Pankova, E.I., et al. [1995,eng] 50-3874
- Discussion on the division and correlation of Holocene series in Xinjiang. Bai, M.X., [1985,chi] 50-2007
- Ecologic-genetic analysis of tundra-steppe soils in northeastern Siberia. Cherniakhovskii, D.A., [1996,eng] 50-5447
- Electron scanning of Quaternary deposit grain shape. Molnár, B., et al. [1995,eng] 50-1040
- Evolution of soils in the basin of the middle reach of the Berelkh River (Upper Kolyma River). Pavlov, B.A., et al. [1995,eng] 50-3877
- Frost heave due to ice lens formation in freezing soils. 2. Field application. Sheng, D., et al. [1995,eng] 50-743
- Geological and geophysical exploration of alpine and peri-alpine glacial valleys. Pugin, A., et al. [1995,eng] 50-3315
- Granulometric investigations of loess profiles in Hungary. Kis, E., [1995,eng] 50-1039
- Ground penetrating radar study of peat stratigraphy. Nobes, D.C., et al. [1992,eng] 50-63
- Humus conditions of oligotrophic tundra soils in Spitsbergen. Weber, L., et al. [1994,ger] 50-1594
- Identification of paleosol types and their applicability for paleoclimatic reconstructions. Morozova, T., [1995,eng] 50-1046
- Incorporation of a drainage layer and infiltration into FROST. Abdel-Salam, A., et al. [1993,eng] 50-6050
- Land form development and pedogenesis: the effects of the last glacial cycle in the forest of Fougères (Ille et Villaine, Brittany, France). Van Vliet-Lanoë, B., et al. [1995,fre] 50-2996
- Loess distribution, origin, and chronology. Pécsi, M., [1990,ger] 50-1794
- Mesomorphic soil formation in the cryogenic taiga semihumid sector of central Siberia. Ershov, I.U.I., [1995,eng] 50-2146
- Method for the study of Quaternary environmental evolution of the loess plateau in China. Zhang, Z.H., et al. [1995,eng] 50-1045
- Methods for classifying apparently homogeneous loess sequences. Molnár, B., et al. [1995,eng] 50-1041
- Mineral composition of the fine-dispersed fractions of loess and soil processes developed in them. Chizhikova, N.P., et al. [1995,eng] 50-1042

Soil stabilization

- Observations of 'freezing-induced redistribution' in soil lysimeters. Butler, A.P., et al. [1996,eng] 50-6082
- Paleoecological study of forest lines in southern Sweden. Björkman, L., [1995,eng] 50-6080
- Paleomagnetic changes within the Brunhes Epoch in the Basmaharc loess profile, Hungary. Balogh, J., [1995,eng] 50-1051
- Periglacial overlying strata in the Bavarian forest. Völkel, J., [1993,eng] 50-1679
- Pleistocene paleosol soil development in northwest Alaska. Höfle, C., et al. [1996,eng] 50-6517
- Pleistocene treeline fluctuation in the Swiss Alps. Tinner, W., et al. [1996,eng] 50-5487
- Quaternary eolian deposits at a salt lake in the Qaidam Basin. Wang, J.D., et al. [1986,chi] 50-1994
- Quaternary of the loess plateau. Sun, J.Z., ed, et al. [1991,chi] 50-2010
- Simulation of Quaternary loess deposit magnetic profiles. Anderson, R.S., et al. [1996,eng] 50-4584
- Soil/weathering rate relations from glacial sediment chemical evolution. Taylor, A., et al. [1995,eng] 50-1806
- Solifluction as a function of strength in thawing soil. Bondarenko, G.L., [1996,rus] 50-6401
- Stratigraphy of slope deposits and soils in the northeastern Great Basin and vicinity. Kleber, A., [1993,eng] 50-1681
- Soil science**
- Changes in the lithology and pedology of tills from the Warta Glaciation in the Bełchatów mine. Baraniecka, M.D., et al. [1993,pol] 50-3653
- Ecologic-genetic analysis of tundra-steppe soils in northeastern Siberia. Cherniakhovskii, D.A., [1996,eng] 50-5447
- Examining the use of time domain reflectometry for measuring liquid water content in frozen soil. Spaans, E.J.A., et al. [1995,eng] 50-2543
- Frost heaving of forest tree seedlings: a review. Goulet, F., [1995,eng] 50-6520
- Landscape evolution in Antarctica. Campbell, I.B., et al. [1988,eng] 50-6526
- Nitrous oxide emission from an agricultural soil subjected to different freeze-thaw cycles. Chen, Y., et al. [1995,eng] 50-5687
- Observations of 'freezing-induced redistribution' in soil lysimeters. Butler, A.P., et al. [1996,eng] 50-6082
- Pleistocene soil evolution in a Russian upland. Sycheva, S.A., [1995,eng] 50-2147
- Soil water pressure measurements in subzero air temperatures. Gordon, D.S., et al. [1995,eng] 50-420
- Soil settling**
- See [also]: Settlement (structural)
- Soil solutions**
- See [also]: Soil water
- Soil stabilization**
- Air convection embankments for roadway construction in permafrost zones. Goering, D.J., [1996,eng] 50-6107
- Amine freezing point depressant for soil stabilization. Hemstreet, D.A., et al. [1996,eng] 50-6144
- Anti-frost behaviour of concrete lined canal with different structures. Song, B.Q., et al. [1989,chi] 50-1387
- Application of ground freezing method to two underground projects in water-bearing sand layer. Zhang, N.Z., [1992,eng] 50-41
- Artificial freezing in Tokyo subway construction. Ito, H., et al. [1992,eng] 50-37
- Artificial freezing suspended while Tower of Pisa foundation is anchored. Wheeler, P., [1995,eng] 50-885
- Artificial soil freezing for construction of railroad tunnel. Borkenstein, D., et al. [1992,eng] 50-32
- Calculation of frozen wall growth during artificial freezing sinking. Li, S.X., [1995,eng] 50-4521
- Catline rehabilitation and restoration. Bolstad, R., [1971,eng] 50-3245
- Cement and lime for deep stabilization of soil. A chemical-physical study of stabilization effects. Åhnberg, H., et al. [1995,swe] 50-2168
- Church building foundation retrofit on Saint Lawrence 1. Crowther, G.S., [1996,eng] 50-6130
- Coal mine spoil instability in discontinuous permafrost. Hardy, A.J., et al. [1996,eng] 50-6166
- Cold regions aspects of mobile test bed hardening in Montana. Blaisdell, G.L., et al. [1987,eng] 50-2725
- Cold regions infrastructure: an international imperative for the 21st century. International Conference on Cold Regions Engineering, 8th, Fairbanks, AK, Aug. 12-16, 1996, [1996,eng] 50-6106
- Compressibility of saline frozen ground on the Yamal Peninsula. Morkovkin, E.I.U., et al. [1989,rus] 50-2307
- Conception for the rehabilitation of transportation infrastructures in northern regions. Ladanyi, B., [1994,fre] 50-4946
- Dam construction in northern environment: a numerical study. Shen, M., et al. [1996,eng] 50-6168
- Debris flows in the eastern Qinghai-Xizang Plateau. Tang, B.X., et al. [1994,eng] 50-4785
- Field observations of instrumented highway sections with different frost protections. Konrad, J.M., et al. [1996,eng] 50-6161
- Foundation rehabilitation at ADOT/PF Jim River Maintenance Camp. Rooney, J.W., et al. [1991,eng] 50-1768
- Freeze sinking construction of Xie Qiao coal mine. Zhang, Y.X., [1992,eng] 50-42
- Freeze-thaw dewatering and structural enhancement of fine coal tails. Stahl, R.P., et al. [1995,eng] 50-357

Soil strength

- Frozen ground structures—basic principles of design. ISGF (International Symposium on Ground Freezing) Working Group 2, [1992,eng] 50-34
- Frozen shaft for nuclear waste disposal in Germany. Jordan, P., et al, [1992,eng] 50-29
- Frozen soil barrier technology. Oak Ridge National Laboratory. Hazardous Waste Remedial Actions Program (HAZWRAP), [1995,eng] 50-2793
- Gas pipelines operating at sub-zero temperatures in the UK. Greene, D.P., et al, [1995,eng] 50-178
- Geocryological conditions for power plant foundations in Russia. Krivonogova, N.F., et al, [1991,eng] 50-1736
- Geocryology research in China in the last decade: review and prospect. Cheng, G.D., [1995,eng] 50-4511
- Ground freezing 91, Vol. 2. International Symposium on Ground Freezing, 6th, Beijing, Sep. 10-12, 1991, [1992,eng] 50-23
- Hydraulic fill ash storage design for the permafrost zone. Koritova, I.V., et al, [1995,eng] 50-1838
- Influence of soil properties on ice-wall formation. Zhang, Y., [1992,eng] 50-30
- Management of winter soil temperatures to control streambank erosion. Bohn, C., [1989,eng] 50-2464
- Mathematical model of a freezing wall with freezing pipes. Gao, M., [1989,chi] 50-1400
- Means of determining the anti-erosion stability of soil. Vladimirov, V.Kh., [1992,rus] 50-1922
- Method for determining the thickness of insulation layer of foundation. Ding, D.W., et al, Lanzhou Institute of Glaciology and Geocryology. Ministry of Railways, Northwest Institute. Heilongjiang Provincial Institute of Water Conservancy. Working Group for Thermal Insulation of Foundations, [1989,chi] 50-1374
- Methods for calculating the temperature field of a freezing wall. Fu, L.D., et al, [1989,chi] 50-1399
- Nonlinear creep of artificially frozen Emscher marl. Klein, J., [1978,ger] 50-3852
- Oil and gas development challenges in the Russian Arctic. Ruzhanskii, V.E., et al, [1996,eng] 50-6432
- OTH-backscatter power plant foundation design for warm, ice-rich permafrost soils. Foster, M.L., et al, [1991,eng] 50-1735
- Performance of a passively refrigerated gravel pad foundation in Fairbanks. Adamczak, S., Jr., [1996,eng] 50-6108
- Preliminary study on the calculation of deformation of frozen wall. Mi, H.Z., [1989,chi] 50-1397
- Preventing frost damage to irrigation canals by geotextile. Chen, L., et al, [1996,eng] 50-6167
- Proceedings. Chinese National Conference on Permafrost, 3rd, Harbin, China, Aug. 19-24, 1986, [1989,chi] 50-1340
- Protection of arctic bridge crossing by refrigerated foundation. Christopherson, A.B., et al, [1991,eng] 50-1734
- Railway on permafrost in Siberia. Gravesen, H., et al, [1995,eng] 50-2960
- Recent ground freezing in Scandinavia. Berggren, A.L., [1992,eng] 50-35
- Reinforcing the permafrost foundation of the Gornegrat Observatory. Vonder Mühl, D., et al, [1995,ger] 50-4174
- Research program for reducing frost heave with geosynthetic capillary barriers. Henry, K.S., et al, [1996,eng] 50-6129
- Review of papers on artificial freezing in shaft sinking. Harris, J.S., [1992,eng] 50-31
- Review of papers on engineering problems of frozen ground. Thimus, J.F., [1992,eng] 50-28
- Road and airfield design for permafrost conditions. Esch, D.C., [1996,eng] 50-6190
- Shakwak Highway Project—construction challenges. Walsh, R., et al, [1996,eng] 50-6160
- Sinking of main shaft in Chengsilou Mine without freeze tube breakage. Pang, R.Q., [1992,eng] 50-39
- Slope stability problems in open pit coal mines in permafrost regions. Vakili, J., [1991,eng] 50-1749
- Soil freezing on the outside of a vertical two-phase closed thermosiphon. Gu, W.B., et al, [1996,eng] 50-6494
- Steel pipe pile foundations for school building in saline permafrost. Merrill, K.S., et al, [1996,eng] 50-6127
- Strengthening railroad roadbed bases constructed on icy permafrost soils. Kondrat'ev, V.G., [1996,eng] 50-6164
- Stress and temperature effects on silt frost heave. Marandi, S.M., et al, [1996,eng] 50-6109
- Stress calculation of frozen wall with viscoelastic plastic theory. Lou, G.D., [1989,chi] 50-1398
- Study and application of strong tamping to prevent frost heave. Han, H.G., et al, [1989,chi] 50-1385
- Study and engineering practice of enclosed foundation of sluice. Yu, B.F., et al, [1989,chi] 50-1390
- Study on horizontal frost heaving force of retaining wall in seasonal frozen ground region. Sui, T.L., et al, [1989,chi] 50-1365
- Studying the thermo-stabilization of soil with a two-phase thermosiphon of small diameter. Pudov, A.S., et al, [1990,rus] 50-1620
- Support of vertical-shaft collar under complex geocryological conditions. Izakson, V.I.U., et al, [1995,eng] 50-417
- Surface modifications to reduce thaw degradation of permafrost. Zarling, J.P., et al, [1996,eng] 50-6111
- Tall and hard fescue responses to periodic soil water deficits. Brar, G.S., et al, [1995,eng] 50-2475
- Thermosiphon-based designs and applications for foundations built on permafrost. Zarling, J.P., et al, [1991,eng] 50-1733
- Upheaval buckling of a pipeline in an arctic environment. Quimby, T.B., et al, [1996,eng] 50-6125

- Urea foam covers for remediation of degraded permafrost. Feklistov, V.N., et al, [1996,eng] 50-6476
- Use of frozen ground techniques in construction. Sanger, F.J., [1967,eng] 50-2478
- Use of geosynthetic capillary barriers to reduce moisture migration in soils. Henry, K.S., [1995,eng] 50-1096
- World's first artificial ice plug for a hydro tunnel. Berggren, A.L., et al, [1995,eng] 50-5708
- Soil strength**
- Cement and lime for deep stabilization of soil. A chemical-physical study of stabilization effects. Åhnberg, H., et al, [1995,swe] 50-2168
- Cold regions aspects of mobile test bed hardening in Montana. Blaisdell, G.L., et al, [1987,eng] 50-2725
- Cyclic direct simple shear testing of a Beaufort Sea clay. McCarron, W.O., et al, [1995,eng] 50-579
- Cyclic triaxial tests of the Bootlegger Cove Formation, Anchorage, Alaska. Lade, P.V., et al, [1988,eng] 50-405
- Dynamic deformation characteristics of undisturbed riverbed gravels. Yasuda, N., et al, [1996,eng] 50-4861
- Earth dams under confining pressure subject to freeze thaw. Ota, H., et al, [1995,jpn] 50-6735
- Earthquake induced landslide in Anchorage, 1964. Uplake, R.G., et al, [1988,eng] 50-401
- Effect of aging on the penetration resistance of sands. Joshi, R.C., et al, [1995,eng] 50-1823
- Field observations of frost action in intact and weathered Champlain Sea clay. Konrad, J.M., et al, [1995,eng] 50-580
- Freeze-thaw dewatering and structural enhancement of fine coal tails. Stahl, R.P., et al, [1995,eng] 50-357
- Full depth testing of frost susceptible soils. Final report. Rice, D.C., [1982,eng] 50-1689
- Liquefaction resistance of silty sand based on in situ frozen samples. Yoshimi, Y., et al, [1996,eng] 50-5080
- Methodology for predicting for winter conditions in the NATO Reference Mobility Model. Ahlvin, R.B., et al, [1995,eng] 50-48
- Oilwell casing downdrag from subsidence at Prudhoe Bay. Nair, K., et al, [1971,eng] 50-4196
- Pore-water pressures in freezing and thawing fine-grained soils. Eigenbrod, K.D., et al, [1996,eng] 50-4756
- Sand liquefaction strength obtained by in situ freezing. Hatanaka, M., et al, [1995,eng] 50-1179
- Soil deformation and stress analysis under a rolling wheel. Foster, W.A., Jr., et al, [1995,eng] 50-47
- Soil freeze-thaw effects on bank erodibility and stability. Gatto, L.W., [1995,eng] 50-2706
- Solifluction as a function of strength in thawing soil. Bondarenko, G.I., [1996,rus] 50-6401
- Suction measurements on compacted till specimens. Fredlund, D.G., et al, [1995,eng] 50-1154
- Two methods for the determination of lateral stress in sand. Hatanaka, M., et al, [1995,eng] 50-1180
- Undrained shear strength for liquefaction flow failure analysis. Konrad, J.M., et al, [1995,eng] 50-1824
- Soil structure**
- Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar. Zeng, X.X., et al, [1995,eng] 50-1804
- Correlation between Pleistocene involutions in English soil and Canadian thermokarst. Murtion, J.B., et al, [1995,eng] 50-1803
- Cryogenic fissures as a factor of soil anisotropy. Kulikov, A.I., [1996,eng] 50-5449
- Distinguishing features of the phase transformations in saline frozen soils. Frolov, A.D., [1996,eng] 50-6481
- Effects of freeze-thaw cycles on the properties of a sensitive clay. Roy, M., et al, [1995,fre] 50-581
- Evolution of soils in the basin of the middle reach of the Berlek River (Upper Kolyma River). Pavlov, B.A., et al, [1995,eng] 50-3877
- Formation of De geer moraines deposited subglacially, central Québec. Beaudry, L.M., et al, [1995,eng] 50-5035
- Glacial crushing, weathering and diagenetic histories of quartz grains. Mahaney, W.C., [1995,eng] 50-3595
- Ice formation and structure in various freezing soils. Wang, J.C., et al, [1995,eng] 50-4515
- Influence of temperature and pressure on cryogenic structure of freezing soil. Wang, J.C., et al, [1995,chi] 50-5636
- Instrument systems for studying the structure of frozen ground during its deformation. Erbiagin, I.F., [1996,rus] 50-6836
- Micromorphology of basal till, Burroughs Glacier, Alaska. Ham, N.R., et al, [1995,eng] 50-3741
- Microstructural changes in frozen sandy soil under confining pressures. Ma, W., et al, [1995,chi] 50-5623
- Paleoecological significance of Quaternary permafrost relics in arctic Canada. Murtion, J.B., [1996,eng] 50-3645
- Physical process and cryogenic texture of soil during freezing. Wang, J.C., et al, [1989,chi] 50-1353
- Pore size effects on road subgrade frost susceptibility. Wood, L.E., et al, [1982,eng] 50-2028
- Relation between permeability and pore size distribution of compacted clayey silts. Garcia-Bengochea, I., [1978,eng] 50-2802
- Role of soil microstructure in the geotechnical properties of freezing soils. White, T.L., et al, [1996,eng] 50-6483
- Sedimentary structures of cold-climate coastal dunes, eastern Hudson Bay, Canada. Ruz, M.H., et al, [1995,eng] 50-3862
- Soil freeze-thaw effects on bank erodibility and stability. Gatto, L.W., [1995,eng] 50-2706

- Statistical analysis of Thayer Hill Road heave data. Harr, M.E., et al, [1995,eng] 50-2030
- Typization of elementary soil-cover structures occurring in European Russia. Simakova, M.S., [1995,eng] 50-3878
- U.S.G.S. Geotechnical Investigation—Beaufort Sea, Alaska, 1979, Vol.1. Bruggers, D.E., et al, [1979,eng] 50-3313
- Soil surveys**
- Active patterned ground and cryoturbation on Muckish Mountain, Co. Donegal, Ireland. Wilson, P., et al, [1995,eng] 50-665
- Advanced classification system for Xinjiang soils. Li, Z.X., [1991,chi] 50-5112
- Aeolian facies belts in the Taklimakan Desert. Li, B.S., et al, [1995,eng] 50-4127
- Central Appalachian periglacial geomorphology: a field excursion guidebook. Clark, G.M., ed, [1992,eng] 50-3712
- Changes in surface conditions of the Taklimakan Desert. Sugihara, S., [1991,jpn] 50-1425
- Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar. Zeng, X.X., et al, [1995,eng] 50-1804
- Cyclic triaxial tests of the Bootlegger Cove Formation, Anchorage, Alaska. Lade, P.V., et al, [1988,eng] 50-405
- Description of Kolyma River landscapes and soils. Smith, C.A.S., et al, [1995,eng] 50-4698
- Discussion on the division and correlation of Holocene series in Xinjiang. Bai, M.X., [1985,chi] 50-2007
- Earthquake induced landslide in Anchorage, 1964. Uplake, R.G., et al, [1988,eng] 50-401
- Estimation of daily evapotranspiration from one time-of-day thermal infrared temperature. Li, F.Q., et al, [1990,chi] 50-6662
- Evaluation of respiration of Russian soils. Kudeiarov, V.N., et al, [1996,eng] 50-5086
- Frozen ground landscapes of Yakutia: explanatory notes to a map. Fedorov, A.N., et al, [1989,rus] 50-5005
- Fuzzy mathematics in evaluating the tillability of land in Xinjiang. Ji, F., [1991,chi] 50-5109
- General summary of the "Xinjiang 1:1,000,000 land resources map". Ji, F., et al, [1991,chi] 50-5108
- Geobotanical maps as an aid in assessing surface impacts. Everett, K.R., et al, [1994,eng] 50-304
- Geomorphological studies on the arid regions of northwest China. Yang, X.P., [1991,ger] 50-2770
- Ground penetrating radar study of peat stratigraphy. Nobes, D.C., et al, [1992,eng] 50-63
- How unique is primary plant succession at Glacier Bay. Walker, L.R., [1995,eng] 50-3749
- Investigation of the surface condition in Taklimakan Desert. Tsuchiya, K., et al, [1991,jpn] 50-1426
- Land classification, land structure and comprehensive natural zonation of Xinjiang. Fan, Z.L., et al, [1991,chi] 50-5107
- Land in Xinjiang conducive to poplar tree farming. Jia, Z.J., et al, [1991,chi] 50-5110
- Late Cenozoic geology and environmental evolution of the Qaidam Basin in Qinghai. [1986,chi] 50-1981
- Late Quaternary sediments of the Qinghai-Xizang Plateau. Frenzel, B., et al, [1994,ger] 50-4779
- Lithium and boron geochemistry of salt lakes in the Qaidam Basin. Zheng, X.Y., [1986,chi] 50-1992
- Low-yield land and its amelioration in Xinjiang. Zhang, B.Q., et al, [1991,chi] 50-5118
- Mapping of soil groups on Germania Peninsula in Spisbergen. Eberle, J., et al, [1994,ger] 50-1592
- Mathematical models of ecosystem carbon cycle feedback effects. Ryzhova, I.M., [1996,eng] 50-5087
- Mineralogical and chemical analysis of Taklimakan Desert soil samples. Ishii, T., et al, [1991,jpn] 50-1428
- Monitoring soil condition in the northern Tibetan Plateau using SSM/I data. Chang, A.T.C., et al, [1996,eng] 50-6692
- Mountain meadow soils of the western Kunlun Mountains. Zhang, L.D., et al, [1991,chi] 50-5114
- Mountain meadow soils of Xizang. Zhang, B., [1991,chi] 50-5115
- Organic carbon storage in the soils of the Russian Federation. Orlov, D.S., et al, [1996,eng] 50-5085
- Pedogenic processes and evolution of the soils on moraines in alpine periglacial environments. Liu, G.N., et al, [1995,chi] 50-5631
- Preliminary study on fossil dunes in the Qaidam Basin. Zhong, D.C., [1986,chi] 50-1990
- Quaternary eolian deposits at a salt lake in the Qaidam Basin. Wang, J.D., et al, [1986,chi] 50-1994
- Quaternary loess and stratigraphy in Inner Mongolia. Dong, G.R., et al, [1986,chi] 50-1991
- Quaternary of the loess plateau. Sun, J.Z., ed, et al, [1991,chi] 50-2010
- Rangelands of Xizang (Tibet). Mou, X.D., et al, [1992,chi] 50-2296
- Research on the natural resources and environment of the Ordos Plateau in Inner Mongolia. Li, B., ed, et al, [1990,chi] 50-2011
- Russian soil geography as indicated by a new detailed map. Andronikov, V.L., et al, [1995,eng] 50-3873
- Satellite imagery for soil conservation in the loess plateau. Wang, C.Y., ed, et al, [1990,chi] 50-4165
- Soil degradation in the steppes of northern Mongolia. Opp, C., et al, [1993,eng] 50-1680
- Soil thermal properties for the design of underground structures in cold regions. Steinmanis, J.E., et al, [1996,eng] 50-6146

Soil temperature

Soil tests

- Soils of the agricultural areas of Bayingolin Mongol Autonomous Prefecture in Xinjiang. Li, S.H., [1991,chi] 50-5120
- Soils of Xizang (Tibet). Gao, Y.X., et al. [1985,chi] 50-2297
- Some paleomagnetic study results in the Kuntuyi Lake region of the Qaidam Basin. An, Z.S., [1986,chi] 50-1993
- Stratigraphy of slope deposits and soils in the northeastern Great Basin and vicinity. Kieber, A., [1993,eng] 50-1681
- Studies on the soils and land resources of Xinjiang. Xinjiang Institute of Biology, Pedology, and Desert Research of the Chinese Academy of Sciences (Zhongguo xue yu xian Xinjiang shengwu turang shamo yanjiusuo), Urumqi, [1991,chi] 50-5106
- Study of remote sensing application in the loess plateau of north Shaanxi Province. Chinese Academy of Sciences. Institute of Remote Sensing Applications, Beijing (Zhongguo kexueyuan Yaogan yingyong yanjiusuo), [1991,chi] 50-6646
- Study on soil erosion in Inner Mongolia. Zhao, Y., et al. [1989,chi] 50-3269
- Study on the remote sensing information model of soil moisture. Ma, A.N., et al. [1990,chi] 50-6661
- Study on theoretical problems of peat resources of the Qinghai-Xizang Plateau. Sun, G.Y., [1992,chi] 50-1497
- Takyr soils and cold desert gypsic soils in the western Kunlun Mountains. Gu, G.A., et al. [1992,chi] 50-1494
- Using computers for MSS image analysis in land use classification. Cheng, X.J., et al. [1991,chi] 50-5111
- Soil temperature**
- Active layer thermal diffusivity from finite difference mathematical methods. Zhang, T., et al. [1995,eng] 50-1141
- Analysis of the air temperature in the Holocene using various methods. Baranova, N.A., et al. [1996,rus] 50-6350
- Application of pipe temperature simulator for Norman Wells oil pipeline. Nixon, J.F., et al. [1996,eng] 50-4306
- CO₂ fluxes in peatlands under varying temperature and moisture conditions. Silvola, J., et al. [1994,eng] 50-3218
- Cold climate applications of bioventing. Ong, S.K., et al. [1994,eng] 50-1474
- Effect of chemical composition of soils on the strength and deformability of frozen saline soils. Roman, L.T., [1995,eng] 50-6332
- Effect of climate warming on the Qinghai-Tibet Highway, China. Tong, C.J., et al. [1996,eng] 50-3830
- Effect of frozen ground strength on hardening performance of the Hard Mobile Launcher. Chamberlain, E.J., et al. [1989,eng] 50-3042
- Effect of soil-ground and surface conditions on the insulating properties of snow cover. Konstantinov, P.I.A., [1996,rus] 50-6393
- Effects of hydrology on the thermal conditions of the active layer. Woo, M.K., et al. [1994,eng] 50-5702
- Emissions of methane and nitrogen oxides from peatland ecosystems. Marikainen, P.J., et al. [1994,eng] 50-3220
- Estimating soil temperatures and frost in the lake effect snowbelt region, Michigan, USA. Isard, S.A., et al. [1995,eng] 50-1140
- Estimation of daily evapotranspiration from one time-of-day thermal infrared temperature. Li, F.Q., et al. [1990,chi] 50-6662
- Experimental study of the thermal regime of soils in the arctic regions of Western Siberia. Pavlov, A.V., et al. [1996,rus] 50-6388
- Formation of the cryo-ecological segment in Central Yakutia. Fedorov, A.N., [1996,rus] 50-6843
- Frost heave susceptibility in Transbaikalia. Sal'nikov, P.I., [1996,rus] 50-6399
- Ground temperature of permafrost active layer in the Fugleberget catchment basin. Kamiński, A., et al. [1993,eng] 50-2203
- Heat transfer and frost-thaw penetration in soil surrounding an inclusion of sand. Peck, L., et al. [1995,eng] 50-726
- Influence of glaciation on the basin temperature regime. Johansen, H., et al. [1996,eng] 50-5328
- Investigation of the surface condition in Taklimakan Desert. Tsuchiya, K., et al. [1991,jpn] 50-1426
- Isotopic calibration of Canadian arctic climatic change records. Beltrami, H., et al. [1995,eng] 50-3682
- Low summer temperatures: a potential mortality factor for high arctic soil microarthropods? Coulson, S.J., et al. [1995,eng] 50-1178
- Management of winter soil temperatures to control streambank erosion. Bohn, C., [1989,eng] 50-2464
- Model of effects of global warming of water balance of subarctic forest ecosystems. Kellomäki, S., et al. [1996,eng] 50-4750
- Niwot Ridge snow fence experiment: biogeochemical response to changes in the seasonal snowpack. Brooks, P.D., et al. [1995,eng] 50-2421
- Observations of 'freezing-induced redistribution' in soil lysimeters. Butler, A.P., et al. [1996,eng] 50-6082
- OTH-backscatter power plant foundation design for warm, ice-rich permafrost soils. Foster, M.L., et al. [1991,eng] 50-1735
- Permafrost foundation creep prediction from cone penetration tests. Ladanyi, B., et al. [1995,eng] 50-1825
- Prospects for using solar energy technology in Transbaikalia. Zhelezniak, I.I., et al. [1993,rus] 50-110
- Recent climatic trend and thermal response of permafrost in Saluit, northern Quebec, Canada. Wang, B.L., et al. [1996,eng] 50-6699
- Seasonal variability in CO₂ transport through snow in a boreal forest. Winston, G.C., et al. [1995,eng] 50-2399
- Simulation of foam protection of plants against frost. Krasovitski, B., et al. [1995,eng] 50-961
- Soil respiration in a stand of Scots pine under elevated temperature. Pajari, B., [1994,eng] 50-3211
- Temperature elevation effects on arctic soil insects. Coulson, S.J., et al. [1996,eng] 50-3529
- Temporal and spatial variation of CO₂, CH₄ and N₂O fluxes in a boreal minerotrophic pine fen. Silvola, J., et al. [1994,eng] 50-3219
- Thermal environments of arctic soil organisms during winter. Coulson, S.J., et al. [1995,eng] 50-2811
- Thermosiphon-based designs and applications for foundations built on permafrost. Zarling, J.P., et al. [1991,eng] 50-1733
- Use of fractal parameters to detect active layer heat transfer. Hinkel, K.M., et al. [1995,eng] 50-1138
- Winter-time convection in open-graded embankments. Goering, D.J., et al. [1996,eng] 50-3827
- See [also]: Frozen ground temperature
- Soil tests**
- Adsorption-desorption of TNT and RDX in soils. Xue, S.K., et al. [1995,eng] 50-1686
- Aggregate degradation in the frost heave test. Hill, J., [1977,eng] 50-2320
- Analytical methods for explosives contamination on army installations. Jenkins, T.F., et al. [1995,eng] 50-1094
- Arctic soil microbial biomass response to fertilizer additions. Jonasson, S., et al. [1996,eng] 50-6230
- Behavior of a sand in frozen and unfrozen states. Swan, C.W., [1996,eng] 50-6147
- Calculation of water transport in the LR 90 test. Onalp, A., [1977,eng] 50-2325
- Calibration of time domain reflectometry for measurement of liquid water in frozen soils. Seyfried, M.S., et al. [1996,eng] 50-3308
- Calorimetric determination of permafrost water-ice phase composition. Fortier, R., et al. [1996,eng] 50-4863
- Cold regions aspects of mobile test bed hardening in Montana. Blaisdell, G.L., et al. [1987,eng] 50-2725
- Cyclic triaxial tests of the Bootlegger Cove Formation, Anchorage, Alaska. Lade, P.V., et al. [1988,eng] 50-405
- Data acquisition system with high accuracy for frozen soil testing. Wu, B.J., et al. [1989,chi] 50-1380
- Development and application of a low temperature triaxial testing apparatus. Zhang, C.Q., [1989,chi] 50-1379
- Development of a field method for ammonium picrate/picric acid in soil and water. Thorne, P.G., et al. [1995,eng] 50-2440
- Development of colorimetric field screening methods for munitions compounds in soil. Jenkins, T.F., et al. [1995,eng] 50-1095
- Distinguishing natural organics from diesel contaminants in soils. Dworjan, P., [1996,eng] 50-6113
- Dynamic deformation characteristics of undisturbed riverbed gravels. Yasuda, N., et al. [1996,eng] 50-4861
- Dynamic testing of frozen soil sample with an exploding wire system. Fyfe, I.M., [1968,eng] 50-2029
- Dynamic testing of frozen soil samples with an exploding wire system. Fyfe, I.M., [1968,eng] 50-1668
- Effect of aging on the penetration resistance of sands. Joshi, R.C., et al. [1995,eng] 50-1823
- Effect of frozen ground strength on hardening performance of the Hard Mobile Launcher. Chamberlain, E.J., et al. [1989,eng] 50-3042
- Effect of mode of compaction on frost heave. Burns, J., [1977,eng] 50-2318
- Effect of water-table position on frost heave. Burns, J., [1977,eng] 50-2326
- Effects of total water content on dynamic properties of frozen soils. Fukuda, M., et al. [1991,eng] 50-1748
- Effects of vehicle tracks on arctic tundra. Kevan, P.G., et al. [1995,eng] 50-962
- Elasticity of partially saturated frozen sand. Jacoby, M., et al. [1996,eng] 50-4323
- Examining the use of time domain reflectometry for measuring liquid water content in frozen soil. Spaans, E.J.A., et al. [1995,eng] 50-2543
- Experimental design for laboratory simulation of periglacial solifluction processes. Harris, C., et al. [1996,eng] 50-5778
- Experimental system for one-dimensional freezing of undisturbed soil profiles. Johansson, H., et al. [1995,eng] 50-3758
- Frost action in subgrade soils—a field/laboratory study. Hoffman, G.L., [1979,eng] 50-4616
- Frost heave prediction in the Netherlands. Post, H.J., [1981,eng] 50-2140
- Frost heave studies by natural freezing. Stenberg, L., [1981,eng] 50-2145
- Frost heave—testing facilities. Kettle, R.J., [1977,eng] 50-2315
- Full depth testing of frost susceptible soils. Final report. Rice, D.C., [1982,eng] 50-1689
- Full depth testing of frost susceptible soils. Rice, D.C., [1974,eng] 50-4401
- Grading, degradation and compaction considerations in relation to specimen preparation. Hughes, R., [1977,eng] 50-2316
- Growth temperature preferences of fungal strains from Victoria Land, Antarctica. Zucconi, L., et al. [1996,eng] 50-4009
- Handling practice effects on soil sample chemistry. Hewitt, A.D., [1996,eng] 50-5962
- Heaving pressures and frost heave. Kettle, R.J., [1977,eng] 50-2324
- Heaving pressures as a means of assessing frost susceptibility. Kettle, R.J., et al. [1981,eng] 50-2142
- Holding-time estimates for soils containing explosives. Grant, C.L., et al. [1995,eng] 50-944
- Impact of fires on mountain sod-taiga soils under larch forests in Mongolia. Krasnoshchekov, I.U.N., [1995,eng] 50-2715
- Indirect assessment of frost susceptibility. Hurt, K.G., [1977,eng] 50-2327
- Influence of pocket gophers on the status of nutrients in alpine soils. Litaor, M.I., et al. [1996,eng] 50-4951
- Inherent variability of frost heave specimens. Nicholls, R.A., [1977,eng] 50-2319
- Laboratory technique for measurement of spectral induced polarization response of soil samples. Vanhala, H., et al. [1995,eng] 50-2998
- Liquefaction resistance of silty sand based on in situ frozen samples. Yoshimi, Y., et al. [1996,eng] 50-5080
- Literature review on mechanical properties of frozen soil. Chen, X.S., et al. [1992,eng] 50-26
- Manual for freezing soil heave stress testing unit. Martin, R.T., [1974,eng] 50-4265
- Material interactions when sampling groundwater. Parker, L.V., [1995,eng] 50-2456
- Mathematical model of frost heave and thaw settlement in pavements—draft. Guymon, G.L., et al. [1986,eng] 50-4348
- Mechanical behavior of frozen earth materials under high pressure triaxial test conditions. Chamberlain, E.J., et al. [1970,eng] 50-3310
- Methanogenesis at low temperatures by microflora of tundra wetland soil. Kotsurbenko, O.R., et al. [1996,eng] 50-5156
- Microbial activity of tundra and taiga soils at sub-zero temperatures. Clein, J.S., et al. [1995,eng] 50-2025
- Microwave thawing of frozen soils and gravels. Lindroth, D.P., et al. [1995,eng] 50-359
- New method for predicting the long-term strength of frozen soils. Roman, L.T., et al. [1992,eng] 50-27
- Nitrogen fixation in arctic vegetation and soils from Svalbard, Norway. Solheim, B., et al. [1996,eng] 50-4007
- Obtaining and transferring soils for in-vial analysis of volatile organic compounds. Hewitt, A.D., et al. [1996,eng] 50-4547
- Photoviscoelastic modeling of the creep of frozen soil. Zhao, X.S., et al. [1996,eng] 50-6743
- Pore-water pressures in freezing and thawing fine-grained soils. Eigenbrod, K.D., et al. [1996,eng] 50-4756
- Pre-analysis of soil organic compound holding times. Hewitt, A.D., [1996,eng] 50-5961
- Preliminary assessment of design and performance of frost susceptibility testing facilities. Dudek, S., [1977,eng] 50-2313
- Preservation of volatile organic compounds for testing in soil samples. Hewitt, A.D., [1995,eng] 50-780
- Probe method for interstitial soil water sampling. Harrison, W.D., et al. [1981,eng] 50-3063
- Proceedings. Colloquium on Frost Heave Testing and Research, Nottingham, England, May 18, 1977, [1977,eng] 50-2311
- Proceedings. Seminar on the Prediction of Frost Heave, Nottingham, England, Apr. 9, 1981, [1981,eng] 50-2135
- Rapid test for the determination of frost susceptibility of soils. Leary, R.M., [1977,eng] 50-4259
- Rates of heave and surface rotation of periglacial frost boils in the White Mountains, California. Wilkerson, F.D., [1995,eng] 50-3785
- Relation between permeability and pore size distribution of compacted clayey silts. Garcia-Bengochea, I., [1978,eng] 50-2802
- Sample representativeness: The missing element in explosives site characterization. Jenkins, T.F., et al. [1996,eng] 50-5960
- Sand liquefaction strength obtained by in situ freezing. Hatanaka, M., et al. [1995,eng] 50-1179
- Seasonal freezing and soil erosion during snowmelt. Demidov, V.V., et al. [1995,eng] 50-2714
- Seasonal freezing and soil erosion during snowmelt. Demidov, V.V., et al. [1995,eng] 50-2714
- Shear moduli and damping in frozen and unfrozen clay by resonant column tests. Al-Hunaidi, M.O., et al. [1996,eng] 50-5817
- Soil deformation and stress analysis under a rolling wheel. Foster, W.A., Jr., et al. [1995,eng] 50-47
- Soil frost heave and bearing tests. Lausanne, Switzerland. Federal Institute of Technology. Laboratory of Soil Mechanics. (École Polytechnique Fédérale de Lausanne. Laboratoire de mécanique des sols) (Eidgenössische Technische Hochschule), [1988,fre] 50-1669
- Soil moisture content and water potential determined by filter paper. Waters, T.J., [1980,eng] 50-2449
- Soil sample compaction degradation related to grading variations. Pike, D.C., [1977,eng] 50-2321
- Soil-to-snow movement of synthetic organic compounds in natural snowpack. Hogan, A., et al. [1995,eng] 50-2403
- Solid phase extraction of nitroaromatics from water. Jenkins, T.F., et al. [1995,eng] 50-1977
- Sources of variability in a constant boundary temperature frost heave test. Lomas, K.J., [1981,eng] 50-2143
- Strength characteristics of frozen soil under torsional loading. Peng, W.W., et al. [1995,chi] 50-5638
- Study of practicability of photoviscoelastic simulation test for frozen soil's creep. Wang, T.D., et al. [1995,chi] 50-5624
- Suction measurements on compacted till specimens. Fredlund, D.G., et al. [1995,eng] 50-1154
- Test standard and design value of normal frost heaving force. Tong, C.J., et al. [1989,chi] 50-1364

Soil texture

- Testing methods for frozen soils. ISGF (International Symposium on Ground Freezing) Working Group 1, [1992,eng] 50-33
- Transport of TNT and RDX in soils. Selim, H.M., et al, [1995,eng] 50-1688
- Triaxial compressive strength of frozen soil under constant deformation rates. Zhu, Y.L., et al, [1989,chi] 50-1368
- Two methods for the determination of lateral stress in sand. Hatanaka, M., et al, [1995,eng] 50-1180
- Universal frost susceptibility test apparatus. Chamberlain, E.J., [1986,eng] 50-1974
- VOC determination in soils prepared by vapor fortification. Hewitt, A.D., et al, [1995,eng] 50-2441
- X ray fluorescence screening for metals in soil. Hewitt, A.D., [1995,eng] 50-2442
- Soil texture**
- Cement and lime for deep stabilization of soil. A chemical-physical study of stabilization effects. Åhnberg, H., et al, [1995,sw] 50-2168
- Early stages of till genesis: an example from Fanore, County Clare, Ireland. Croot, D.G., et al, [1996,eng] 50-5828
- Effect of fines content on frost heave. Tester, R.E., et al, [1996,eng] 50-6752
- Exploring the behaviour of microwaves in a snowpack using modelling techniques. Leconte, R., [1996,eng] 50-5539
- Fabric signature of subglacial till deformation. Bredamerkur-Jökull, Iceland. Benn, D.I., [1995,eng] 50-3863
- Freezing soil textures allowing for compressibility of the unfrozen zone. Gorelik, I.A.B., et al, [1996,eng] 50-6484
- Geochemical correlation between coarse and fine fractions of till in southern Finland. Tarvainen, T., [1995,eng] 50-2705
- Granulometric investigations of loess profiles in Hungary. Kis, É., [1995,eng] 50-1039
- Laboratory technique for measurement of spectral induced polarization response of soil samples. Vanhala, H., et al, [1995,eng] 50-2998
- Methods for classifying apparently homogeneous loess sequences. Molnár, B., et al, [1995,eng] 50-1041
- Pleistocene glacier thicknesses inferred from electron microscopy of till microtextures. Mahaney, W.C., [1995,eng] 50-3365
- Soil geomorphology on Alaskan permafrost terrain. Swanson, D.K., [1996,eng] 50-6518
- Soil thawing**
- See [also]: Ground thawing
- Soil trafficability**
- Cold regions aspects of mobile test bed hardening in Montana. Blaisdell, G.L., et al, [1987,eng] 50-2725
- Full depth testing of frost susceptible soils. Final report. Rice, D.C., [1982,eng] 50-1689
- Soil deformation and stress analysis under a rolling wheel. Foster, W.A., Jr., et al, [1995,eng] 50-47
- Soil frost heave and bearing tests. Lausanne, Switzerland. Federal Institute of Technology. Laboratory of Soil Mechanics. (École Polytechnique Fédérale de Lausanne. Laboratoire de mécanique des sols) (Eidgenössische Technische Hochschule), [1988,fr] 50-1669
- Suction measurements on compacted till specimens. Fredlund, D.G., et al, [1995,eng] 50-1154
- Temperature and elasticity modulus of asphalt pavements. Balzer, S., [1992,eng] 50-2476
- Soil veins**
- See [also]: Patterned ground
- Soil water**
- Acclimation of tree function and structure to climate change and implications to forest carbon balance. Hari, P., et al, [1994,eng] 50-3204
- Adaptation of tree seedlings to subalpine meadow soil moisture variations. Kuuluvainen, T., et al, [1996,eng] 50-4337
- Calibration of time domain reflectometry for measurement of liquid water in frozen soils. Seyfried, M.S., et al, [1996,eng] 50-3308
- Carbon in boreal coniferous forest soil. Westman, C.J., et al, [1994,eng] 50-3203
- Characteristics of the crystallization of water in unsaturated soils. Golubev, V.N., [1996,eng] 50-6810
- Characteristics of the development of thermo-erosional gullies on mid-alpine slopes. Varlamov, S.P., [1996,eng] 50-6405
- Climate change impact on hydrology and cryology. Selthun, N.R., [1995,eng] 50-1005
- CO₂ fluxes in peatlands under varying temperature and moisture conditions. Silvola, J., et al, [1994,eng] 50-3218
- Dispersion-by-chemical-reaction technology to stabilize asphalt tar. Brar, G.S., et al, [1995,eng] 50-727
- Effects of forest clearcutting on snow hydrology. Meng, F.R., et al, [1995,eng] 50-768
- Estimating soil water content during global climatic warming. Velichko, A.A., et al, [1995,eng] 50-4115
- Forecasting gully erosion in Yamburg. Skubitskaia, M.G., [1996,eng] 50-6406
- Formation of taliks and high temperature frozen rocks under conditions of Central Yakutia. Shender, N.I., et al, [1996,eng] 50-6412
- Frost heave along banks of canals. Zhu, Q., et al, [1989,chi] 50-1361
- Heat transfer and frost-thaw penetration in soil surrounding an inclusion of sand. Peck, L., et al, [1995,eng] 50-726
- Hydrologic pathways in an alpine watershed. Mast, M.A., et al, [1995,eng] 50-2418
- Hydrologic role of soils and ecological methods of regulating water resources. Voronkov, N.A., [1995,eng] 50-3879

- Implications of frost heave for patterned ground, Tibet Plateau. China. Wang, B.L., et al, [1995,eng] 50-2808
- Kinetics of the freezing of water in dispersed soils (experiment, theory). Grechishchev, S.E., et al, [1996,eng] 50-6811
- Microclimatic models, estimation of solar radiation and evaporation over land surfaces. Heikinheimo, M., et al, [1994,eng] 50-3186
- Modeling the effects of climate change, air pollutants and land use on freshwater ecosystems: summary. Kauppi, L., et al, [1994,eng] 50-3192
- Modeling the effects of climatic change on phosphorus transport from a drainage basin. Bilelaidein, A., et al, [1994,eng] 50-3199
- Modelling and calculating the thermoplastic state of frozen ground. Dubina, M.M., et al, [1991,eng] 50-5054
- Modelling of ice formation processes in freezing soils. Gorelik, I.A.B., et al, [1996,eng] 50-6813
- New concept in studying and forecasting frost heave. Nevechiria, V.L., [1996,eng] 50-6398
- Phase equilibrium of soil water on the cryolithosphere. Konov, A.A., [1996,eng] 50-6812
- Preliminary results of ground ice studies in the Herschel Island area, Yukon coastal plain. Pollard, W.H., [1990,eng] 50-1622
- Probe method for interstitial soil water sampling. Harrison, W.D., et al, [1981,eng] 50-3063
- Runoff and sediment yield under grazing in foothills fescue grasslands of Alberta. Naeth, M.A., et al, [1996,eng] 50-3340
- Seasonal radar backscatter variation from boreal forests. Pulliainen, J.T., et al, [1996,eng] 50-4765
- Simulation of soil moisture variations reflecting the hydrological cycle. Akiyem, O.O., et al, [1996,eng] 50-5918
- Snow cover effect on the heat and water balance in northwestern China. Kondo, J., et al, [1996,eng] 50-6729
- Soil nutrient dynamics in East African alpine ecosystems. Rehder, H., [1994,eng] 50-3055
- Soil water pressure measurements in subzero air temperatures. Gordon, D.S., et al, [1995,eng] 50-420
- Solifluction as a function of strength in thawing soil. Bondarenko, G.I., [1996,eng] 50-6401
- Source areas for storm runoff generation estimated by isotope methods and the TOPMODEL. Lepistö, A., et al, [1994,eng] 50-3193
- Study of the heat of crystallization of bound water in clay soils. Starostin, E.G., et al, [1996,eng] 50-6809
- Study on the remote sensing information model of soil moisture. Ma, A.N., et al, [1990,chi] 50-6661
- System for measuring moisture in the Taklimakan Desert soil. Fujitani, T., et al, [1991,eng] 50-1436
- Temporal weather impacts upon exterior intrusion detection systems. Ryerson, C.C., et al, [1995,eng] 50-4544
- Test of variant soil moisture conditions on the Canadian Global Forecast Model. Delage, Y., et al, [1995,eng] 50-1528
- Tree regeneration in Colorado forest-tundra ecosystem. Weisberg, P.J., et al, [1995,eng] 50-3295
- Use of fractal parameters to detect active layer heat transfer. Hinkel, K.M., et al, [1995,eng] 50-1138
- Vegetation and ecology of tropical mires in the high Andes of northern Chile. Rutschatz, B., [1995,ger] 50-4530
- Vegetation cover and moisture effects on solifluction in Spitsbergen. Schmitt, E., [1994,ger] 50-1591
- Water balance of the Alps. Chernogayeva, G.M., [1973,eng] 50-436
- Water limitations and plant community development in a polar desert. Gold, W.G., et al, [1995,eng] 50-2463
- See [also]: Ground water; Unfrozen water content
- Soil water migration**
- Active layer moisture migration in Alaskan soils. Outcalt, S.J., et al, [1996,eng] 50-4631
- Analysis of moisture transfer in the aeration zone of the cryolithosphere. Shepelev, V.V., [1996,eng] 50-6817
- Calculation of water transport in the LR 90 test. Onalp, A., [1977,eng] 50-2325
- Contamination of groundwaters. Adriano, D.C., ed, et al, [1994,eng] 50-5515
- Effect of water-table position on frost heave. Burns, J., [1977,eng] 50-2326
- Effects of the variation in suction and heat flow during the frost heaving process. Jones, R.H., [1977,eng] 50-2323
- Essential types of frost heaving development of soils. Xu, X.Z., et al, [1995,eng] 50-4516
- Estimation of unsaturated permeability from suction curves. Thompson, J.D., [1981,eng] 50-2144
- Examining the use of time domain reflectometry for measuring liquid water content in frozen soil. Spaans, E.J.A., et al, [1995,eng] 50-2543
- Experimental system for one-dimensional freezing of undisturbed soil profiles. Johansson, H., et al, [1995,eng] 50-3758
- Flow and freezing boundary conditions for snow-melt infiltration into a frozen soil. Tao, Y.X., et al, [1993,eng] 50-4550
- Freezing and cryogenic heave of finely dispersed soil. Buldovich, S.N., [1996,eng] 50-6815
- Frost characteristic of saline soil and its effect on canals. Feng, T., [1989,chi] 50-1388
- Frost heave due to ice lens formation in freezing soils. 1. Theory and verification. Sheng, D., et al, [1995,eng] 50-742
- Frost heaving of a saturated soil. Ishizaki, T., et al, [1992,eng] 50-36
- Fundamentals of ice lens formation. Takagi, S., [1975,eng] 50-3390

Solar radiation

- Hydraulic conductivity of frozen granular soils. Andersland, O.B., et al, [1996,eng] 50-4048
- Hydraulic properties and frost susceptibility of unsaturated soil. Chen, X.B., et al, [1989,chi] 50-1359
- Ice formation and structure in various freezing soils. Wang, J.C., et al, [1995,eng] 50-4515
- II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973, [1973,eng] 50-5139
- Incorporation of a drainage layer and infiltration into FROST. Abdel-Salam, A., et al, [1993,eng] 50-6050
- Infiltration of snowmelt and heat transfer into frozen soil. Zhao, L.T., et al, [1996,eng] 50-6480
- Mathematical model and the Takashi model of soil freezing. Nakano, Y., [1996,eng] 50-6485
- Mathematical model of frost heave and thaw settlement in pavements—draft. Guymon, G.L., et al, [1986,eng] 50-4348
- Mathematical model to correlate frost heave of pavements with laboratory predictions. Final report. Berg, R.L., et al, [1996,eng] 50-3333
- Moisture movement and freezing pressures. Hoekstra, P., [1968,eng] 50-1976
- Observations of 'freezing-induced redistribution' in soil lysimeters. Butler, A.P., et al, [1996,eng] 50-6082
- On the prediction of hydraulic conductivity of frozen soils. Tarnawski, V.R., et al, [1996,eng] 50-4307
- Permafrost hydrology in the Greater Khingan Range. Lin, F.T., et al, [1989,chi] 50-1344
- Pore-water pressures in freezing and thawing fine-grained soils. Eigenbrod, K.D., et al, [1996,eng] 50-4756
- Probabilistic approach to determining frost heave. Chamberlain, E.J., et al, [1981,eng] 50-2141
- Proceedings. Colloquium on Frost Heave Testing and Research, Nottingham, England, May 18, 1977, [1977,eng] 50-2311
- Proceedings. Seminar on the Prediction of Frost Heave, Nottingham, England, Apr. 9, 1981, [1981,eng] 50-2135
- Processes controlling the chemistry of two snowmelt-dominated streams in the Rocky Mountains. Campbell, D.H., et al, [1995,eng] 50-2545
- Rapid test for the determination of frost susceptibility of soils. Leary, R.M., [1977,eng] 50-4259
- Research program for reducing frost heave with geosynthetic capillary barriers. Henry, K.S., et al, [1996,eng] 50-6129
- Role of soil microstructure in the geotechnical properties of freezing soils. White, T.L., et al, [1996,eng] 50-6483
- Seasonal solute movement in continuous permafrost. Boike, J., et al, [1995,eng] 50-2093
- Sedimentation during needle ice growth in soil. Branson, J., et al, [1996,eng] 50-3646
- Simulated transport of three cations through porous media. Grant, S.A., et al, [1995,eng] 50-5598
- Soil freeze-thaw effects on bank erodibility and stability. Gatto, L.W., [1995,eng] 50-2706
- Soil moisture content and water potential determined by filter paper. Waters, T.J., [1980,eng] 50-2449
- Study on characteristics of moisture migration in saturated freezing soil. Xu, X.Z., et al, [1989,chi] 50-1372
- Suction measurements on compacted till specimens. Fredlund, D.G., et al, [1995,eng] 50-1154
- Temperature effects on porous solid capillary functions. Grant, S.A., et al, [1996,eng] 50-5965
- Use of geosynthetic capillary barriers to reduce moisture migration in soils. Henry, K.S., [1995,eng] 50-1096
- Winter effects on hydraulic conductivity of compacted clay—discussion. Day, R.W., et al, [1996,eng] 50-5207
- Soils**
- See [also]: Chernozem; Clay soils; Cryogenic soils; Desert soils; Fines; Forest soils; Frozen ground; Meadow soils; Mountain soils; Noncohesive soils; Organic soils; Podsol; Saline soils; Subgrade soils
- Solar activity**
- Accelerator mass spectrometry: new applications. Synal, H.A., [1995,eng] 50-2309
- Appearance of F2 and Es modes during oblique-incidence sounding in the high latitude ionosphere. Egorova, L.V., et al, [1991,eng] 50-2270
- Effect of solar activity on the recurrence of basic forms of atmospheric circulation. Bolotinskaya, M.Sh., [1990,eng] 50-331
- Evidence of a 22-year cycle in air temperature. Ol, A.I., et al, [1991,eng] 50-1639
- Flux and fluence of major solar proton events and their record in antarctic snow. Shea, M.A., et al, [1994,eng] 50-4622
- Potential character of the distribution of basic physical properties of the polar ionosphere. Shirochikov, A.V., [1991,eng] 50-1637
- Precipitations and atmospheric circulation over western Greater Caucasus. But, I.V., et al, [1973,eng] 50-423
- Space-time distribution of electron density in the maximum of the F2 layer at high latitudes. Besprozvanina, A.S., [1991,eng] 50-1638
- Solar radiation**
- Accelerator mass spectrometry: new applications. Synal, H.A., [1995,eng] 50-2309
- Albedo on snow surface in Patriot Hills, Antarctica. Shinohara, M., et al, [1995,eng] 50-4384
- Antarctic cloud scattering depth using ground-based radiometry. Ricchiazzi, P., et al, [1995,eng] 50-1335
- Atmospheric absorption of solar radiation due to ice clouds. Gautier, C., [1995,eng] 50-957

Solar visible spectrum

- Atmospheric transparency and the stress of direct solar radiation in the Arctic and Antarctic. Wójcik, G., [1989, pol] 50-2902
- Background stratospheric aerosol and polar stratospheric cloud reference models. McCormick, M.P., et al., [1996, eng] 50-6712
- CAO data on the dependence of ozone density and relative mixture on angle of maximum solar elevation. Poliakova, E.A., et al., [1992, rus] 50-137
- Chemical sputtering could produce sodium vapor and ice on Mercury. Potter, A.E., [1995, eng] 50-3093
- Climatic implications of solar modulation of cosmogenic isotopes in antarctic ice cores. Steig, E.J., et al., [1996, eng] 50-3549
- Cloud attenuation of ultraviolet radiation in alpine regions. Blumthaler, M., et al., [1996, eng] 50-3610
- Coincident events between SPASE and AMANDA detectors. Müller, T., et al., [1995, eng] 50-4305
- Digital terrain model of topographic obstruction to solar radiation in the Tian Shan. Li, X., et al., [1995, chi] 50-3997
- Downwelling radiation flux at continental surfaces. Garratt, J.R., et al., [1996, eng] 50-5018
- Downwelling radiation fluxes at the arctic surface based on parameterizations. Silcox, R.A., [1994, eng] 50-5303
- Effect of volcanic aerosols on ultraviolet radiation in Antarctica. Tsitas, S.R., et al., [1996, eng] 50-3066
- Effects of enhanced UV-B radiation on the growth of dwarf shrubs in a subarctic heathland. Johanson, U., et al., [1995, eng] 50-3618
- Effects of temperature and solar radiation on glacier melting. Drozdz, O.A., et al., [1973, rus] 50-432
- Heat transfer of air flow between inclined plates of a solar collector. Ali, A.H.H., et al., [1996, eng] 50-6478
- Ice accretion in freezing rain. Jones, K.F., [1996, eng] 50-2245
- Inter-annual variability in marine coastal antarctic bacterioplankton. Delille, D., et al., [1996, eng] 50-4006
- Microclimatic models, estimation of solar radiation and evaporation over land surfaces. Heikinheimo, M., et al., [1994, eng] 50-3186
- Near UV polar stratospheric absorption measurements. Wahner, A., et al., [1990, eng] 50-6012
- Neumayer weather data: 1992, 1993, 1994. König-Langlo, G., et al., [1996, eng] 50-4083
- Observational and theoretical studies of solar radiation in arctic stratus clouds. Herman, G.F., et al., [1984, eng] 50-4913
- Passive melting of ice and snow on solar photovoltaic arrays. Ross, M.M.D., et al., [1996, eng] 50-5370
- Permafrost and glaciers of Upper Engadin, Switzerland. Hölzle, M., [1994, ger] 50-2771
- Polar cap aurorae tell the time. Egeland, A., et al., [1995, eng] 50-1151
- Polar cap contraction associated with the leading edge of a magnetic cloud. Knipp, D.J., et al., [1996, eng] 50-3071
- Polar stratospheric radiation absorption measurements, pt.2. Schiller, C., et al., [1990, eng] 50-6013
- Polar stratospheric radiation absorption measurements, pt.3. Wahner, A., et al., [1990, eng] 50-6016
- Potential ice ablation in the USSR. Khodakov, V.G., et al., [1972, rus] 50-522
- Precision measurements and theoretical calculations for solar ultraviolet radiation. Jokela, K., et al., [1994, eng] 50-3190
- Proceedings of the NIPR Symposium on Polar Meteorology and Glaciology, No.9. Watanabe, O., ed. NIPR Symposium on Polar Meteorology and Glaciology, 17th, Tokyo, July 13-14, 1994, [1995, eng] 50-2574
- Producing energy for polar stations from the wind-water temperature gradient. LeGoff, H., et al., [1994, eng] 50-4275
- Prospects for using solar energy in the Murmansk region. Minin, V.A., et al., [1992, rus] 50-711
- Prospects for using solar energy technology in Transbaikalia. Zhelezniak, I.I., et al., [1993, rus] 50-110
- Radiative properties of snow for clear sky solar radiation. Choudhury, B.J., [1979, eng] 50-3955
- Radiometry of icy Jovian satellites. Tamppari, L.K., et al., [1995, eng] 50-637
- Rapid calculation of direct radiation on sloping fields. Wang, J., et al., [1995, chi] 50-5629
- Recent climate variability in the vicinity of the Antarctic Peninsula. King, J.C., [1994, eng] 50-2994
- Reconstructed model of trace gases vertical distribution. Karol, I.L., et al., [1995, eng] 50-625
- Russian alternative energy sources in the Antarctic. Sheinshstein, A.S., [1994, eng] 50-4276
- Snow algae microbiology related to ultraviolet radiation effects. Thomas, W.H., et al., [1995, eng] 50-2814
- Solar halos and sun dogs. Glassner, A., [1996, eng] 50-4499
- Solar particle origin for polar ice core nitrate anomalies. Zeller, E.J., et al., [1995, eng] 50-1184
- Spectral quality and absorption of solar radiation in a mountain birch forest, Abisko, Sweden. Ohved, M., et al., [1995, eng] 50-2813
- Spectroscopic study of heavy ozone isotopes in the arctic atmosphere. Meier, A., et al., [1996, eng] 50-3550
- Spring and summer radiation regime in artificially compacted snow. Nazarov, V.D., [1992, rus] 50-148
- Summer solstice solar radiation, the 100 kyr ice age cycle, and the next ice age. Ledley, T.S., [1995, eng] 50-1214
- Temperature-controlled tests on a snow-removal system for photovoltaic panels. Gastonguay, L., et al., [1996, eng] 50-5403
- Temporal weather impacts upon exterior intrusion detection systems. Ryerson, C.C., et al., [1995, eng] 50-4544

- Thermal balance of the surface of the Marukh Glacier. Voloshina, A.P., [1972, rus] 50-535
- Thermal regime of ice covered Swedish lakes. Bengtsson, L., et al., [1994, eng] 50-5696
- Thermospheric neutral winds at Watson Lake, Yukon Territory. Niciejewski, R.J., et al., [1996, eng] 50-6683
- Ultraviolet (A) and short-wave radiation on the Juneau Icefield, Alaska. Quakenbush, T., et al., [1992, eng] 50-363
- Using solar energy at the South Pole: photovoltaic electricity and solar heating. Wills, R.H., [1988, eng] 50-3880
- UV-B-tolerance of alpine and arctic *Daphnia*. Zellmer, I.D., [1995, eng] 50-1972
- Year-round column ozone observations at 65°S: validation and polar winter data. Jones, A.E., et al., [1995, eng] 50-3524
- Solar visible spectrum**
See [also]: Sunlight
- Solid liquid interfaces**
See [also]: Liquid solid interfaces
- Solid phases**
Convection and freezing around a cylinder in a saturated medium. Okada, M., et al., [1996, eng] 50-6455
- Dipole moment of the water molecule in the condensed phase: a periodic Hartree-Fock estimate. Gatti, C., et al., [1995, eng] 50-3817
- Fluctuations during melting. Grimsditch, M., et al., [1996, eng] 50-6345
- Melting inside a cylinder filled with phase change material. Back, Y.R., et al., [1996, eng] 50-6457
- Micro-solidification of solutions with supercooling. Hayashi, Y., [1996, eng] 50-6431
- Mixed-phase cloud scheme based on a single prognostic equation. Tremblay, A., et al., [1996, eng] 50-6665
- Molecular dynamics study of the freezing of clusters of chalcogen hexafluorides. Kinney, K.E., et al., [1996, eng] 50-5780
- Solid phase extraction of nitroaromatics from water. Jenkins, T.F., et al., [1995, eng] 50-1977
- Solid phase sedimentation in the Barents Sea. Hulth, S., et al., [1996, eng] 50-6723
- The presence of metastable HNO₃/H₂O solid phases in the stratosphere inferred from ER 2 data. Tabazadeh, A., et al., [1996, eng] 50-5254
- Thickness determination of a water film on dye-doped ice by fluorescence spectroscopy. Strausky, H., et al., [1996, eng] 50-3967
- Solidification**
Convection and freezing around a cylinder in a saturated medium. Okada, M., et al., [1996, eng] 50-6455
- Convective instability influence on freezing time of warm water. Maciejewski, P.K., [1996, eng] 50-4220
- Fluctuations during melting. Grimsditch, M., et al., [1996, eng] 50-6345
- Freezable wax plug for pipeline. [1992, eng] 50-4414
- Freezing of a salt solution in a packed bed. Chellaiah, S., et al., [1995, eng] 50-2956
- Freezing of a salt solution in a packed bed. Chellaiah, S., et al., [1996, eng] 50-3909
- Freezing of liquids in a laminar flow in a heat flux cooled circular duct. Prasad, A., et al., [1996, eng] 50-6463
- Fuel additive impairment of diesel fuel low temperature properties. Létoffé, J.M., et al., [1995, eng] 50-4252
- Heat flux monitoring during cryogenic pipe freezing: a case study. Tavner, A.C.R., et al., [1996, eng] 50-5477
- Influence of supercooling on salt-water saturated porous medium. Okada, M., et al., [1996, eng] 50-6762
- Micro-solidification of solutions with supercooling. Hayashi, Y., [1996, eng] 50-6431
- Molecular dynamics study of the freezing of clusters of chalcogen hexafluorides. Kinney, K.E., et al., [1996, eng] 50-5780
- Solidification of pure liquids and liquid mixtures inside ducts and over external bodies. Fukusako, S., et al., [1994, eng] 50-2348
- Solidification of water in a buried pipe. Negiz, A., et al., [1995, eng] 50-1967
- Solids**
Analytical modelling of heat transfer from a single slab in freezing. Dincer, I., [1995, eng] 50-3818
- Bacterial ice nucleation and its potential applications in the food industry. Li, J.K., et al., [1995, eng] 50-1956
- Homogeneous nucleation in supercooled molecular clusters. Bartell, L.S., et al., [1995, eng] 50-1280
- Potential food applications of high-pressure effects on ice-water transitions. Kalichevsky, M.T., et al., [1995, eng] 50-1955
- Solifluction**
Analysis of stone size and shape in arctic environments. King, C.A.M., et al., [1968, eng] 50-5760
- Climatic controls on rates of solifluction: variations within Europe. Matthews, J.A., et al., [1993, eng] 50-849
- Dating of Holocene solifluction in the Austrian Alps. Veit, H., [1993, eng] 50-826
- Development of cryogenic processes in the Baykal region. Leshchikov, F.N., [1996, rus] 50-6397
- Engineering geological characteristics of solifluctive soil (Yamal Peninsula). Platon, N.A., et al., [1985, rus] 50-244
- Experimental design for laboratory simulation of periglacial solifluction processes. Harris, C., et al., [1996, eng] 50-5778
- Forecasting gully erosion in Yamburg. Skubitskaia, M.G., [1996, rus] 50-6406
- Frost denudation landforms at the hinterland on the Qinghai-Xizang Plateau. Zhang, W.X., et al., [1989, chi] 50-1354
- Gelifluction in the alpine periglacial environment of the Tianshan Mountains, China. Liu, G.N., et al., [1996, eng] 50-6704

Solubility

- Gelifluction rates as global change indicators. Kirkby, M.J., [1995, eng] 50-4195
- Holocene debris-flow activity in northern Sweden. Jonasson, C., [1993, eng] 50-837
- Holocene mass movement on Scottish mountains. Ballantyne, C.K., [1993, eng] 50-831
- Holocene solifluction at Okstindan, northern Norway: a reassessment. Worsley, P., [1993, eng] 50-829
- Holocene solifluction in the Swiss Alps: dating and climatic implications. Gamper, M., [1993, eng] 50-824
- Icelandic turf-banked terrace geomorphology. Douglas, T.D., et al., [1996, eng] 50-5498
- Influence of local factors on solifluction rates, Spitsbergen, Svalbard. Repelewska-Pekalowa, J., et al., [1993, eng] 50-842
- Italian research on solifluction in the Alps. Meneghel, M., [1993, eng] 50-827
- Modelling mountain slopes from the Late Vistulian in Spitsbergen. Drecki, J., [1989, pol] 50-2881
- Nature of the displacement of dispersed rocks on slopes. Petrov, V.S., et al., [1996, rus] 50-6402
- Norwegian gelifluction stages from dated buried soils. Nesje, A., [1993, eng] 50-828
- Periglacial denudation in the Richardson Mountains. Fried, G., et al., [1993, eng] 50-1675
- Periglacial landforms and sediments in Argentina. Trombato, D., [1991, ger] 50-1684
- Periglacial phenomena found in Mount Xixia Bangma region. Zheng, B.X., et al., [1982, chi] 50-6607
- Permafrost formation and aggradation in a 23-m high homogeneous dyke: a case study. Konrad, J.M., et al., [1996, eng] 50-6165
- Permafrost, gelifluction and fluvial sediment transfer in the Austrian Alps. Veit, H., et al., [1993, eng] 50-1676
- Protalus formation mechanisms in Norwegian sediments. Shakesby, R.A., et al., [1995, eng] 50-3328
- Radiocarbon dating of buried soils with particular reference to Holocene solifluction. Matthews, J.A., [1993, eng] 50-846
- Regional forecasting of cryogenic processes and ecology of the cryolithozone. Grechishchev, S.E., [1990, rus] 50-1598
- Role of climate in periglacial solifluction. Harris, C., [1993, eng] 50-845
- Salinity of Quaternary deposits in the western Yamal Peninsula. Lakhtina, O.V., et al., [1983, rus] 50-314
- Scottish landform examples. 8: Solifluction sheets in the Broom Valley, Cheviot Hills. Harrison, S., [1993, eng] 50-3015
- Sliding of the slope of railway embankment in permafrost region and its treatment. Wang, W.B., [1989, chi] 50-1395
- Slope processes and climate in the Abisko Mountains, northern Sweden. Rapp, A., et al., [1993, eng] 50-836
- Solifluction and climate in the Holocene: a North American perspective. Smith, D.J., [1993, eng] 50-834
- Solifluction and climatic variation in the Holocene. Frenzel, B., et al., [1993, eng] 50-823
- Solifluction and climatic variation in the Holocene: discussion and synthesis. Matthews, J.A., et al., [1993, eng] 50-848
- Solifluction and creep rates 1972-1991, Kapp Linné, West Spitsbergen. Åkerman, H.J., [1993, eng] 50-841
- Solifluction and related slope processes in the mountains of central Asia (Mongolia). Pekala, K., et al., [1993, eng] 50-832
- Solifluction as a function of strength in thawing soil. Bondarenko, G.I., [1996, rus] 50-6401
- Solifluction controls in the French Alps. Pissart, A., [1993, eng] 50-839
- Solifluction in northern Eurasia: a review. Serebrianniy, L.R., et al., [1993, eng] 50-833
- Solifluction in northern Finland: past and present. Seppälä, M., [1993, eng] 50-830
- Solifluction in the Arctic and subarctic during the Holocene. Van Vliet-Lanoë, B., [1993, eng] 50-844
- Solifluction in the Swedish mountains. Ulfstedt, A.C., [1993, eng] 50-840
- Solifluction in the Swiss Alps and Bolivia. Graf, K., [1993, eng] 50-838
- Stratified slope deposits: the stone-banked sheets and lobes model. Bertran, P., et al., [1995, eng] 50-4834
- Swiss alpine palaeoclimate during the Holocene: pollen analytical evidence and general features. Burga, C.A., [1993, eng] 50-825
- Thermal erosion in high arctic ecosystems in Spitsbergen. King, L., et al., [1993, eng] 50-843
- Tien Shan: trends of changes in the geocryological conditions. Gorbunov, A.P., et al., [1996, rus] 50-6841
- Vegetation cover and moisture effects on solifluction in Spitsbergen. Schmitt, E., [1994, ger] 50-1591
- Solonchaks**
Diagnostics of solonchaks: a class of salt-rich soils. Pankova, E.I., et al., [1995, eng] 50-3874
- Solubility**
Active layer moisture migration in Alaskan soils. Outcalt, S.I., et al., [1996, eng] 50-4631
- Airborne hydrogen peroxide measurements in supercooled clouds. Snider, J.R., et al., [1995, eng] 50-2114
- Analysis of return drilling fluids in Prudhoe Bay oil wells. Fambrough, J.D., et al., [1991, eng] 50-1714
- Biogeochemical cycling in a seasonally anoxic lake. Hamilton-Taylor, J., et al., [1996, eng] 50-5818
- Chemical correlates of Hg and methyl-Hg in northern Wisconsin lake waters under ice-cover. Watras, C.J., et al., [1995, eng] 50-2125

Solutions

Sounding

- Comparison of subglacial and extra-glacial weathering. Axtmann, E.V., et al. [1995,eng] 50-2436
- Compositional simulation and performance analysis of the Prudhoe Bay Miscible Gas Project. McGuire, P.L., et al. [1991,eng] 50-1702
- Coupling PIXE and SEM/EDAX for characterizing atmospheric aerosols in ice-cores. Laj, P., et al. [1996,eng] 50-6324
- Determining past atmospheric HCl mixing ratios from ice core analyses. Domine, F., et al. [1995,eng] 50-1104
- Diffusive properties of polymer membranes prepared by freeze/thaw techniques. Hickey, A.S., et al. [1995,eng] 50-2698
- Dispersal of metal-contaminated sediments in an arctic river. Sear, D., et al. [1996,eng] 50-6516
- Dissolved inorganic carbon in the Kara Sea and in the mouths of the Ob and Yenisey Rivers. Makkaveev, P.N., [1995,eng] 50-3533
- Dissolved organic matter in arctic sea ice. Thomas, D.N., et al. [1995,eng] 50-717
- Distribution of metals in Laptev Sea pore waters. Langner, C., [1995,eng] 50-2103
- Effects of tree litter decomposition on forest soil composition. Harris, M.M., et al. [1996,eng] 50-3309
- Estimates of Greenland atmospheric impurity variations during deglaciation. Alley, R.B., et al. [1995,eng] 50-1872
- Formation of poly(vinyl alcohol) cryogels through polymer solution freezing-thawing. Lozinski, V.I., et al. [1995,eng] 50-1177
- Grain-scale mechanisms influencing the elution of ions from snow. Cragin, J.H., et al. [1996,eng] 50-1975
- Heterogeneous chemistry of polar stratospheric clouds. Mather, J.H., et al. [1990,eng] 50-4726
- Hydrogeochemistry of Fraser River, British Columbia. Cameron, E.M., [1996,eng] 50-5815
- Hydrology of Bregger Glacier, Spitsbergen. Kodama, Y., et al. [1995,eng] 50-3249
- Interpretation of hydrochemical evidence for meltwater routing at a high arctic glacier. Hodgkins, R., et al. [1995,eng] 50-2432
- Iron(II) in rainwater, snow, and surface seawater from a coastal environment. Zhuang, G.S., et al. [1995,eng] 50-979
- Labile dissolved forms of heavy metals in the Kara Sea waters. Kravtsov, V.A., et al. [1995,eng] 50-3534
- Major, minor, and trace element chemistry of surface waters in the Everest region of Nepal. Reynolds, B., et al. [1995,eng] 50-2434
- Marginal filter of the ocean. Lisitsyn, A.P., [1995,eng] 50-3542
- Mechanism of formation of nanocrystalline hematite prepared by freeze-drying. Bermejo, E., et al. [1995,eng] 50-4289
- Meltwater drainage patterns from alpine glaciers. Collins, D.N., [1995,eng] 50-2430
- Metal hydrolysis on a deeply cooled ice surface. Winter, H., et al. [1995,eng] 50-1102
- Natural cleaning of oiled coarse sediment shorelines in arctic and Atlantic Canada. Owens, E.H., et al. [1994,eng] 50-6231
- New simple route to the synthesis of protease substrates in ice. Ullmann, D., et al. [1996,eng] 50-6713
- Oil-soluble resin-diverting agents in Prudhoe Bay acidizing operations. Strasser, J.E., et al. [1991,eng] 50-1698
- Organic carbon variations in stream waters during snowmelt. Boyer, E.W., et al. [1995,eng] 50-2422
- Relationship between atmospheric composition and snow composition for HCl and HNO₃. Domine, F., et al. [1995,eng] 50-2392
- Release of major ions and hydrogen peroxide from homogeneous, melting snow. Herrmann, R., et al. [1995,eng] 50-4014
- Runoff composition in a bedrock catchment watershed. Clow, D.W., et al. [1995,eng] 50-2415
- Snow and water chemistry of a headwater alpine basin. Urumqi River, Tian Shan, China. Liu, F.J., et al. [1995,eng] 50-2413
- Solvation of hydrogen halides on the surface of ice. Robertson, S.H., et al. [1995,eng] 50-6069
- Subzero temperature water behavior in nonionic microemulsions. pt.1. Garu, N., et al. [1996,eng] 50-3409
- Surficial weathering fluxes and their geochemical controls. Lermon, A., [1994,eng] 50-1238
- Suspended sediment weathering in alpine glacial meltwater. Brown, G.H., et al. [1996,eng] 50-6088
- Transit time of meltwaters in alpine glaciers. Collins, D.N., [1995,eng] 50-2429
- Unfrozen water types in hydrated phospholipid bilayers. Hsieh, C.H., et al. [1995,eng] 50-3038
- Weathering of aeolian dusts in alpine snows. Delmas, V., et al. [1996,eng] 50-4588
- What you need to know about prewetting deicers. Mergenmeier, A., [1995,eng] 50-3857
- Solutions**
- Action of HPLC6 antifreeze polypeptide in solution. Brooke-Taylor, C.A., et al. [1996,eng] 50-5298
- Balancing safety and the environment. Mericas, D., et al. [1994,eng] 50-2123
- Biological treatment of waste water containing glycols from deicing agents. Nitschke, L., et al. [1996,eng] 50-3619
- Changes of model mixtures during freezing and drying. Shalae, E.I.U., et al. [1996,eng] 50-4531
- Comments on the crystal structure of solid trichlorofluoromethane. Prado, P., et al. [1995,eng] 50-3144
- Cryomicroscopic determination of ice crystal growth in the system 2,4-pentanediol/water. Mehl, P.M., [1996,eng] 50-2744
- Crystallization of ice in glycerol solutions, pt.1. Hey, J.M., et al. [1996,eng] 50-5813
- Design of capacitor to measure permittivity of supercooled aqueous solutions. Wolter, F., et al. [1996,eng] 50-5503
- Diffusive properties of polymer membranes prepared by freeze/thaw techniques. Hickey, A.S., et al. [1995,eng] 50-2698
- Effects of anti-icing fluid on wing lift during supercooled precipitation. Bouchard, G., et al. [1995,eng] 50-3255
- Effects of fire in the taiga on the environment. Lotspeich, F.B., et al. [1971,eng] 50-3244
- Experimental study of dielectric relaxation in supercooled alcohols and polyols. Murthy, S.S.N., [1996,eng] 50-4084
- Experimental study of freezing of binary solutions. Zampino, M.A., et al. [1991,eng] 50-1243
- Formation of poly(vinyl alcohol) cryogels through polymer solution freezing-thawing. Lozinski, V.I., et al. [1995,eng] 50-1177
- Freeze concentration by layer crystallization. Fiesland, O., [1995,eng] 50-5943
- Freezing of a salt solution in a packed bed. Chelliah, S., et al. [1996,eng] 50-3909
- Freezing of an aqueous sodium chloride saturated packed bed. Choi, J., et al. [1993,eng] 50-5781
- Freezing rate effects on colloid viscoelasticity. Sahagian, M.E., et al. [1995,eng] 50-1253
- Ground deicing. George, F., [1995,eng] 50-3688
- Ice and hydrate freezing points of aqueous ethylene oxide solutions. Glew, D.N., et al. [1995,eng] 50-45
- Influence of supercooling on salt-water saturated porous medium. Okada, M., et al. [1996,eng] 50-6762
- Insects in deep freeze. Barnes-Svarney, P., [1992,eng] 50-3035
- Liquid ice melting along a bundle of heated cylinders. Yamada, M., et al. [1996,eng] 50-4965
- Liquid-glass transition in a strong glassformer. Torell, L.M., et al. [1995,eng] 50-1225
- Measuring salt's effectiveness in New York. Hart, R.D., et al. [1995,eng] 50-1560
- Mechanism of formation of nanocrystalline hematite prepared by freeze-drying. Bermejo, E., et al. [1995,eng] 50-4289
- Melting driven thermohaline convection. Bénard, C., et al. [1996,eng] 50-3611
- Metal hydrolysis on a deeply cooled ice surface. Winter, H., et al. [1995,eng] 50-1102
- Microscopic dynamics of glycerol in its crystalline and glassy states. Bermejo, F.J., et al. [1996,eng] 50-4418
- Molecular dynamics investigations of slow relaxations in supercooled liquids. Hansen, J.P., et al. [1995,eng] 50-1226
- New simple route to the synthesis of protease substrates in ice. Ullmann, D., et al. [1996,eng] 50-6713
- No ice on board. Johnson, J.P., et al. [1995,eng] 50-1973
- Nucleation rates in freezing of molecular clusters. Bartell, L.S., [1995,eng] 50-2346
- Reactivity of imidazoles in pulse and γ -irradiated liquid and frozen systems. Kalcicki, E., et al. [1996,eng] 50-3527
- Relaxation dynamics of supercooled polymers. Parthun, M.G., et al. [1995,eng] 50-1572
- Relaxation processes in supercooled carbohydrates. Gangasharan, et al. [1995,eng] 50-1571
- Results of black ice inhibiting filler use on asphalt test sections. Arand, W., [1995,ger] 50-2841
- Scanning microscopy of an autofluorescent biological substance. Evans, J., et al. [1996,eng] 50-4532
- Scavenging of electrons and radicals in frozen chloride-alcohol glasses. Kalcicki, J., [1996,eng] 50-3526
- Soil water pressure measurements in subzero air temperatures. Gorden, D.S., et al. [1995,eng] 50-420
- Spectrometric detection of chloride ions in snow. Vanchikova, E.V., et al. [1995,eng] 50-3791
- Spectrometry of nucleic acid frozen solutions. Boriak, O.A., et al. [1996,eng] 50-4046
- Spectroscopy of photolysis in frozen solution systems. Yamauchi, S., et al. [1993,eng] 50-1467
- Studies on ice nucleating behavior of AgI-AgBr-CuBr system. Radhakrishnan, T., et al. [1996,eng] 50-4290
- Testing mode-coupling theory for a supercooled binary Lennard-Jones mixture. Kob, W., et al. [1995,eng] 50-1227
- Tests clear snow, path for use of liquid anti-icing in northwest. Deep, D., et al. [1995,eng] 50-1954
- Thermal conductivity of normal and deuterated tetrahydrofuran clathrate hydrates. Andersson, O., et al. [1996,eng] 50-2719
- Thermal investigation of crystal nucleation from a supercooled liquid. Mu, R., et al. [1996,eng] 50-4354
- Thermodynamic theory of supercooled liquids. Kivelson, D., et al. [1995,eng] 50-943
- Unfrozen water types in hydrated phospholipid bilayers. Hsieh, C.H., et al. [1995,eng] 50-3038
- Use of thermal analysis in the development of a better understanding of frozen food stability. Goff, H.D., [1995,eng] 50-3357
- Variables of cryopreservation of marine microalgae. Calavate, J.P., et al. [1995,eng] 50-4327
- Water rotation in supercooled aqueous solutions. Nakahara, M., et al. [1995,eng] 50-153
- X-ray analysis of ion distribution in frozen salt droplets. Orlovich, D.A., et al. [1995,eng] 50-6590
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- Forms of unusual patterned ground: examples from the Falkland Islands, South Atlantic. Wilson, P., [1995,eng] 50-2718
- Paleogeographic significance of Norwegian block field periglacial processes. Sellier, D., [1995,fre] 50-4878
- Rates of heave and surface rotation of periglacial frost boils in the White Mountains, California. Wilkerson, F.D., [1995,eng] 50-3785
- Relict sorted patterned ground in Rostu, northernmost Sweden. Kling, J., [1996,eng] 50-5581
- Solifluction and creep rates 1972-1991, Kapp Linné, West Spitsbergen. Åkerman, H.J., [1993,eng] 50-841
- Sound**
- See [also]: Acoustics
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- Acoustic wave perturbations within the Barents Sea Polar Front. Lynch, J.F., et al. [1996,eng] 50-4590
- Forward coupled-mode propagation modeling for coastal acoustic tomography. Chiu, C.S., et al. [1996,eng] 50-4589
- Improved detection of acoustic sources in ice-riding ocean environment. Zala, C.A., et al. [1995,eng] 50-1461
- Infrasound signatures of a polar low in the Norwegian and Barents Sea on 23-27 March 1992. Ørbæk, J.B., et al. [1995,eng] 50-2026
- Measurement of seismo-acoustic ocean-bottom properties in the high Arctic. Dosso, S.E., et al. [1995,eng] 50-1837
- Report on underwater noise. Davis, R.A., et al. [1991,eng] 50-3420
- Sound propagation through hydrological fronts in the Barents Sea. Aleksandrov, I.A., [1995,eng] 50-3311
- Sound velocity in water and ice. Ruocco, G., et al. [1996,eng] 50-3102
- Transition from normal to fast sound in liquid water. Sette, F., et al. [1996,eng] 50-5710
- Sound waves**
- Acoustics probe sea-ice mechanics. Rajan, S.D., [1996,eng] 50-6675
- Algorithm for simulating wave propagation through sea ice. Blackowiak, A.D., et al. [1995,eng] 50-1644
- Analysis of spatial reverberation statistics in the central Arctic. LePage, K., et al. [1996,eng] 50-5191
- Doppler electromagnetic analysis of ice cover gravity wave oscillations. Vdovichenko, S.P., [1996,eng] 50-5703
- Elastic wave sensing system. Liu, Y., et al. [1995,eng] 50-3471
- Evaluating the deformation and strength properties of frozen ground using an acoustic method. Zykov, I.U.D., et al. [1995,rus] 50-2504
- Nonlinear acoustic effects due to cracks in ice cover. Ekimov, A.E., et al. [1996,eng] 50-5291
- Propagation of sound from a moving airborne source in an ice-covered ocean. Grudskii, S.M., et al. [1996,eng] 50-4626
- Sound reflection from ice cover. Kudriashov, V.M., [1996,eng] 50-4627
- Sound velocity in water and ice. Ruocco, G., et al. [1996,eng] 50-3102
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- Acoustic sounder measurements of the planetary boundary layer at Maitri, Antarctica. Naithani, J., et al. [1995,eng] 50-4208
- Analysis of cloud parameters in the northern European basin. Garbuzov, A.V., et al. [1992,rus] 50-1274
- Appearance of F2 and Es modes during oblique-incidence sounding in the high latitude ionosphere. Egorova, L.V., et al. [1991,rus] 50-2270
- Arctic and antarctic ozone depletion inferred from radiometric soundings. MacKenzie, I.A., et al. [1996,eng] 50-5768
- Arctic ozone depletion observed by UARS MLS during the 1994-95 winter. Manney, G.L., et al. [1996,eng] 50-3603
- Arctic polar stratospheric cloud observations by airborne lidar. McCormick, M.P., et al. [1990,eng] 50-5988
- Arctic stratospheric cloud and temperature variations, 1989. Hofmann, D.J., [1990,eng] 50-5985
- Balloon sounding of arctic stratospheric chemistry. Kondo, Y., et al. [1990,eng] 50-5999
- Canadian Atlantic Storms Program: progress and plans of the meteorological component. Stewart, R.E., [1991,eng] 50-4416
- Cenozoic deposition in the Nansen Basin, Barents Sea. Vágnes, E., [1996,eng] 50-5313
- Cloud structure derived from remote sensing measurements. Sassen, K., [1984,eng] 50-4921
- CTD measurements in the Greenland Sea, 1993. Budéus, G., et al. [1996,eng] 50-5105
- Deposition around a coal-fired power station during a winter-time precipitation event. Jylhä, K., [1995,eng] 50-4953
- Detection of possible aircraft icing in clouds by passive-active radars. Tarabukin, I.A., et al. [1992,eng] 50-3569
- Determination of liquid water altitudes using combined remote sensors. Politovich, M.K., et al. [1995,eng] 50-1414
- Diagnostics of the polar ionosphere using oblique and reverse-oblique sounding. Vovk, V.I.A., [1991,rus] 50-2264
- Distributions of volcanic aerosols in antarctic polar stratospheric clouds. Adriani, A., et al. [1995,eng] 50-2848
- Ecosystem dynamics of the Bering and Chukchi Seas. Tryban, A.V., [1995,eng] 50-3608
- Effects of pack ice on Weddell Sea plankton distribution. Kaufmann, R.S., et al. [1995,eng] 50-4160
- Eking out icing info. Hamm, J., [1995,eng] 50-3687
- Electric fields and charges near 0°C in stratiform clouds. Shepherd, T.R., et al. [1996,eng] 50-5821

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- Electric soundings on polar landforms of the Northern Foothills. Guglielmin, M., et al. [1995,eng] 50-4391
- Electrical sounding of the cryolithosphere in the Arctic using transient processes. Nim, I.U.A., [1989,rus] 50-2303
- Electromagnetic induction sounding of sea ice thickness. Kovacs, A., et al. [1996,eng] 50-4959
- Evidence for midwinter chemical ozone destruction over Antarctica. Vömel, H., et al. [1995,eng] 50-754
- Evidence for the removal of gaseous HNO_3 inside the arctic polar vortex in January 1992. Höpfner, M., et al. [1996,eng] 50-3064
- Expedition ARKTIS-XI/2 of RV *Polarstern* in 1995. Krause, G., ed. [1996,eng] 50-5104
- Hailstorm in Hong Kong. Lee, B.Y., et al. [1996,eng] 50-3962
- Hailstorms in Switzerland: left movers, right movers, and false hooks. Houze, R.A., Jr., et al. [1993,eng] 50-1444
- Infrared measurement of arctic atmospheric chemical species. Wetzel, G., et al. [1995,eng] 50-2115
- Interpretation of nitric oxide profile observed in January 1992 over Kiruna. Kondo, Y., et al. [1996,eng] 50-6637
- Late Cenozoic tectonics and the dynamics of the west antarctic ice sheet. Behrendt, J.C., et al. [1994,eng] 50-1884
- Lidar measurements of arctic polar ozone depletion. Wirth, M., et al. [1996,eng] 50-5286
- Lidar observation of wintertime polar stratospheric clouds. Browell, E.V., et al. [1990,eng] 50-5989
- Lidar observations of stratospheric temperature above McMurdo Station, Antarctica. Di Donfrancesco, G., et al. [1996,eng] 50-5605
- Long-term arctic stratospheric temperature variations. Nagatani, R.M., et al. [1990,eng] 50-5978
- Mass exchange between meltwater streams and proglacial deposits. Holmlund, P., et al. [1996,eng] 50-6241
- Mesoscale and microscale structure of a severe ice pellet storm. Hanešák, J.M., et al. [1995,eng] 50-1526
- Mesoscale precipitation structure in winter storms. Ramamurthy, M.K., et al. [1991,eng] 50-4417
- Middle and Late Pleistocene evolution of the Bear Island Trough Mouth Fan. Laberg, J.S., et al. [1996,eng] 50-5322
- Missing chemistry of reactive nitrogen in the upper stratospheric polar winter. Kawa, S.R., et al. [1995,eng] 50-1189
- Modeling and observational study of East Antarctic surface mass balance. Connolly, W.M., et al. [1996,eng] 50-3017
- Noctilucent cloud observations over Greenland by a Rayleigh lidar. Thayer, J.P., et al. [1995,eng] 50-4542
- North Polar stratospheric cloud dynamics. Rosen, J.M., et al. [1990,eng] 50-4723
- Numerical analysis of atmospheric water cycle over Antarctica. Bromwich, D.H., et al. [1995,eng] 50-2020
- Observations of polar stratospheric clouds in the arctic winter 1989 at 79°N. Krüger, B.C., [1990,eng] 50-5984
- On the particle characteristics of PSCs inferred from polarimetric experiment. Masłowska, A., et al. [1994,eng] 50-1114
- Optical backscatter characteristics of arctic polar stratospheric clouds. Kent, G.S., et al. [1990,eng] 50-5987
- Organization of regional forecasting services using oblique sounding of the ionosphere. Khodzha-Akhmedov, Ch.L., [1991,rus] 50-2262
- Ozone and aerosol correlated observations at Thule, Greenland, in the period 1991-1994. Di Sarra, A., et al. [1995,eng] 50-2849
- Photooxidants in the marine arctic troposphere in summer. Weller, R., et al. [1996,eng] 50-5255
- Pleistocene geomorphology of Qinghai Lake, China. Nakao, K., et al. [1995,eng] 50-3604
- Positive ion depletion in a noctilucent cloud. Balsiger, F., et al. [1996,eng] 50-3604
- Quantification of Barents Sea Pleistocene bottom erosion. Rasmussen, E., et al. [1996,eng] 50-5311
- Radar observation of cloud electrification during thunderstorms. Jameson, A.R., et al. [1996,eng] 50-3965
- Radiative effects of polar stratospheric clouds. Kinne, S., et al. [1990,eng] 50-5986
- Radiometric detection of ice crystal growth in cirrus clouds. Ou, S.C., et al. [1996,eng] 50-5204
- Radiometric observations of supercooled liquid water within a split front over Sierra Nevada. Heggli, M.F., et al. [1985,eng] 50-4972
- Radiometry of cirrus cloud optical depths and ice crystal sizes. Ou, S.C., et al. [1995,eng] 50-3258
- Recent climatic trend and thermal response of permafrost in Saluit, northern Quebec, Canada. Wang, B.L., et al. [1996,eng] 50-6699
- Record low Siberian ozone levels. Bojkov, R.D., et al. [1995,eng] 50-1212
- Recovery of ozone in the lower stratosphere at the South Pole during the spring of 1994. Hofmann, D.J., et al. [1995,eng] 50-1182
- Rocket-borne spectrometry of arctic stratospheric chemistry. Schlager, H., et al. [1990,eng] 50-5998
- Role of atmospheric waves in the laminated structure of ozone profiles at high latitude. Teitelbaum, H., et al. [1996,eng] 50-5871
- Sea ice scouring on the inner shelf of the southeastern Canadian Beaufort Sea. Héquette, A., et al. [1995,eng] 50-1830
- Small-scale waves encountered during AASE. Bacmeister, J.T., et al. [1990,eng] 50-5982
- Snowfall generated by surface topographic effects upon wind direction. Wesley, D.A., et al. [1995,eng] 50-1079
- Sounding of aerosol formation in the arctic stratosphere. Hofmann, D.J., et al. [1990,eng] 50-4725
- Sounding of arctic polar stratospheric clouds, 1990. Hofmann, D.J., et al. [1990,eng] 50-4731
- Sounding of nitric acid aerosol in the arctic stratosphere. Schlager, H., et al. [1990,eng] 50-4724
- Sounding of polar stratospheric ozone annual variations. Grudev, A.N., et al. [1995,eng] 50-4748
- Sounding to determine the thermophysical properties of frozen ground and bedrock. Gavril'ev, R.I., [1993,rus] 50-124
- Space-time distribution of temperature inversions in the arctic atmospheric boundary layer. Nagurnyi, A.P., [1995,eng] 50-2728
- Stratospheric ozone layer above Spitsbergen in winter 1989. Neuber, R., et al. [1990,eng] 50-5975
- Stratospheric temperatures during AASE: results from STRATAN. Rood, R.B., et al. [1990,eng] 50-5979
- Structure and evolution of winter cyclones in the central United States and their effects on the distribution of precipitation. Part II: arctic fronts. Wang, P.Y., et al. [1995,eng] 50-1565
- Submarine topographical chart around Filchner-Ronne Ice Shelf. Vaughan, D.G., et al. [1995,eng] 50-5443
- Subtidal and tidal currents in the vicinity of the Iceland-Faeroes front. Allen, J.T., [1995,eng] 50-159
- Surface spectrometry of arctic seasonal atmospheric ozone variations. Pommerehne, J.P., et al. [1988,eng] 50-4636
- Towed geophone system for use in snow-covered terrain. King, E.C., et al. [1996,eng] 50-6225
- U.S. FROST: Data and Science Plan. Report from the U.S. Science FROST Workshop, 2 and 3 August 1993. Bromwich, D.H., ed. [1993,eng] 50-3332
- Upper Atmosphere Research Satellite (UARS) Microwave Limb Sounder (MLS) experiment. Waters, J., et al. [1992,eng] 50-3561
- Warm core in a polar low observed with a satellite microwave sounding unit. Forsythe, J.M., et al. [1996,eng] 50-4186
- See (also): Echo sounding; Radio echo soundings
- Spaceborne photography**
- Accuracy of SPOT digital elevation model and derivatives: utility for Alaska's North Slope. Sasowsky, K.C., et al. [1992,eng] 50-1448
- Acquisition and processing of remote sensing data on ore deposits. Guo, H.D., et al. [1993,chi] 50-2380
- Algorithm for radiometric image mapping of global snow cover. Hall, D.K., et al. [1995,eng] 50-1809
- Algorithm to enhance sea ice concentration estimates from radiometric brightness temperatures. St. Germain, K.M., et al. [1992,eng] 50-3564
- Analysis of coastal ice cover using ERS-1 SAR data. Leshkevich, G., et al. [1995,eng] 50-1822
- Antarctic sea ice analysis, 1991-1992. Naval Polar Oceanography Center. Naval Ice Center. [1992,eng] 50-444
- Application of DTM to extraction of snowcover information from NOAA/AVHRR image. Feng, X.Z., et al. [1995,chi] 50-3983
- Application of satellite visible band data to high latitude oceans. Ahlins, K., et al. [1989,eng] 50-3934
- Application of SSM/I data for snow cover and climate research. Armstrong, R.L., [1995,eng] 50-4178
- Application of subspace method in snow recognition. Liu, Z.K., et al. [1990,chi] 50-6659
- Application of synthetic aperture radar (SAR) imagery on antarctic glaciology. Takahashi, A., et al. [1995,jpn] 50-4553
- Archive of digital data from the Defense Meteorological Satellite Program (DMSP). Kroehl, H.W., et al. [1994,eng] 50-5076
- Arctic and Antarctic Research Center: support for research during 1994-1995. Whittner, R.H., et al. [1995,eng] 50-6502
- Arctic process and climate studies with the TOVS satellite sounder. Francis, J.A., [1994,eng] 50-684
- Automated approach to the sea-ice motion estimation. Moczeuma Flores, M., et al. [1994,eng] 50-5175
- Avalanche hazard mapping with satellite data and a digital elevation model. Gruber, U., et al. [1995,eng] 50-2345
- Background database of snow disaster in Nagqu area of Xizang. Sun, W.X., et al. [1995,chi] 50-3979
- Barents Sea ice concentration from SSM/I data. Smith, D.M., [1996,eng] 50-6695
- Basal friction of Ice Stream E, West Antarctica. MacAyeal, D.R., et al. [1995,eng] 50-448
- C-band backscatter measurements of winter sea-ice in the Weddell Sea, Antarctica. Drinkwater, M.R., et al. [1995,eng] 50-1817
- C-band radar backscatter from antarctic first-year sea ice. 1. Jeffries, M.O., et al. [1995,eng] 50-6506
- C-band radar backscatter from antarctic first-year sea ice. 2. Morris, K., et al. [1995,eng] 50-6507
- Canadian development and use of snow cover information from passive microwave satellite data. Goodison, B.E., et al. [1995,eng] 50-4177
- Changes in surface conditions of the Taklimakan Desert. Sugihara, S., [1991,jpn] 50-1425
- Changes in the configuration of ice stream flow from the West Antarctic ice sheet. Jacobel, R.W., et al. [1996,eng] 50-4360
- Characterizing multitemporal alpine snowmelt patterns for ecological inferences. Allen, T.R., et al. [1993,eng] 50-1447
- Charting movement of sea ice by satellite. Carsey, F., [1995,eng] 50-715
- Classification of arctic cloud and sea ice features in multi-spectral satellite data. Key, J.R., [1994,eng] 50-4357
- Cloud ice mass content from satellite radiometry and aircraft data. Marosov, S.Y., et al. [1996,eng] 50-5277
- Coastal environments of the western Kara and eastern Barents Seas. Pirman, S.L., et al. [1995,eng] 50-4558
- Comparison between snow cover products derived from visible and microwave satellite observations. Basist, A., et al. [1996,eng] 50-3007
- Comparison of second-order classifiers for SAR sea ice discrimination. Barber, D.G., et al. [1993,eng] 50-1446
- Correction of satellite radar altimetry of antarctic ice sheets. Cooper, A.P.R., et al. [1996,eng] 50-5073
- Demonstration of operational sea-ice monitoring in the Baltic Sea with ERS-1 SAR. Herland, E.A., et al. [1995,eng] 50-1820
- Demonstration of seasonal changes in the territory of Finland using multitemporal NOAA-AVHRR data. Andersson, K., [1992,eng] 50-618
- Demonstration project to supply near real time sea ice information. Blackford, C., et al. [1994,eng] 50-1516
- Detecting new-ice in the arctic from multispectral satellite data. Martin, T., et al. [1992,eng] 50-224
- Detection and prediction of hail with Meteosat data. Messmer, B., et al. [1995,ger] 50-2539
- Determination of snowcovered area by satellite SAR imagery. Seglenieks, F., et al. [1995,eng] 50-3106
- Dielectric properties and microwave remote sensing of snow and ice. Matsuoka, T., et al. [1995,jpn] 50-3511
- Digital terrain information and its application in Nagqu area of Xizang. Lu, A.X., et al. [1995,chi] 50-3985
- Digital terrain model of topographic obstruction to solar radiation in the Tian Shan. Li, X., et al. [1995,chi] 50-3997
- Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al. [1996,eng] 50-4766
- Distributed snow process modeling: an image processing approach. Davis, R.E., et al. [1995,eng] 50-3108
- Drift of the tabular iceberg Filchner 1986A. Skvarca, P., et al. [1993,spa] 50-3552
- Dynamic monitoring information system for snow of remote sensing imagery. Liu, Z.K., et al. [1990,chi] 50-6657
- Dynamic research by remote sensing on typical region in the Yellow River Valley. Tian, G.L., ed. [1990,chi] 50-6649
- Dynamics of David Glacier and its floating Drygalski Ice Tongue. Frezzotti, M., [1994,ita] 50-2824
- Earth-gridded SSM/I data set for cryospheric studies and global change monitoring. Armstrong, R.L., et al. [1995,eng] 50-1963
- Effect of sea ice surface features on radar backscatter. Ulander, L.M.H., et al. [1995,eng] 50-1813
- Elevation change of the Greenland ice sheet from satellite altimetry. Wingham, D.J., [1995,eng] 50-5237
- ERS-1 SAR wind vector data from the Norwegian continental shelf. Wackerman, C.C., et al. [1994,eng] 50-1511
- Establishment and application of DTM of the Qinghai-Xizang Plateau. Li, X., et al. [1995,chi] 50-3994
- Estimation of daily evapotranspiration from one time-of-day thermal infrared temperature. Li, F.Q., et al. [1990,chi] 50-6662
- Estimation of surface albedo from NOAA AVHRR data in high latitudes. Laine, V., et al. [1996,eng] 50-5870
- Evidence of arctic-wide atmospheric aerosols from DMSP visible imagery. Shine, K.P., et al. [1984,eng] 50-4494
- Extraction of deformation descriptors from spaceborne radar ice motion products. Li, S., et al. [1995,eng] 50-1812
- Floods resulting from glacial lake outbursts, Yrqi River basin, Xinjiang, China. Li, J., et al. [1994,eng] 50-1535
- Forecast of spring snowmelt runoff in the upper Yellow River. Lan, Y.C., et al. [1990,chi] 50-6652
- Fuzzy classification of earth terrain covers using complex polarimetric SAR data. Du, L., et al. [1996,eng] 50-4018
- Fuzzy region segmentation of snow remote sensing imagery. Liu, Z.K., et al. [1990,chi] 50-6660
- Geologic and hydrogeologic mapping of Iceland with multisensor data. Münzer, U., et al. [1992,eng] 50-617
- Glacial flow systems in the zone of confluence between the Scandinavian and Novaya Zemlya ice sheets. Punkari, M., [1995,eng] 50-2130
- Glaciological studies in the high central Andes using digital processing of satellite images. Llorens, R.E., et al. [1995,eng] 50-3339
- Greenland Sea ice variations recorded by spaceborne photography. Mitchelson-Jacob, E.G., [1996,eng] 50-4292
- Heat flux from leads in pack ice from a Landsat TM image. Lindsay, R.W., [1994,eng] 50-5179
- High resolution observations of Weddell Sea surface currents using ERS-1 SAR sea-ice motion vectors. Thomas, J.P., et al. [1995,eng] 50-1819
- Ice dynamics in the south-western Laptev Sea as derived from ERS-1 SAR images. Kolatschek, J., et al. [1995,eng] 50-2063
- Ice sheet motion and topography from radar interferometry. Kwok, R., et al. [1996,eng] 50-2702
- Ice velocities near a relief flow feature on Siple Dome. Jacobel, R.W., et al. [1994,eng] 50-1891
- Iceberg detection using ERS-1 synthetic aperture radar. Willis, C.J., et al. [1996,eng] 50-5225
- Iceberg observations and estimation of submarine ridges in the western Weddell Sea. Viehoff, T., et al. [1995,eng] 50-1818
- Implications of patch dynamics for forested ecosystems in the Pacific Northwest. Bradshaw, G.A., et al. [1996,eng] 50-4067
- Improved fuzzy clustering algorithm for snow recognition. Liu, Z.K., et al. [1990,chi] 50-6658

Spacecraft

Spacecraft

- Improved segmentation of sea ice in radiometric imagery. Simpson, J.J., et al. [1995,eng] 50-3494
- Information states in sea ice imagery. Kerman, B.R., [1995,eng] 50-6311
- Information system for snowmelt runoff in Qinghai Province. Feng, X.Z., et al. [1990,chi] 50-6655
- Intercomparison of snow retrieval algorithms by means of spaceborne microwave radiometry. Rott, H., et al. [1995,eng] 50-4176
- Intercomparisons of sea ice concentration from SSM/I and AVHRR data of the Ross Sea. Zibordi, G., et al. [1995,eng] 50-938
- Investigation of the surface condition in Taklimakan Desert. Tsuchiya, K., et al. [1991,jpn] 50-1426
- Lake ice and its remote sensing monitoring in the Tibetan Plateau. Chen, X.Z., et al. [1995,chi] 50-5634
- LANDSAT automated mapping of mountain snow cover. Rosenthal, W., et al. [1996,eng] 50-3312
- Latitude as a factor in the calculation of primary production. Platt, T., et al. [1995,eng] 50-4129
- Long-term observations for monitoring of the cryosphere. Walsh, J.E., [1995,eng] 50-3350
- Mapping alpine snow and ice using Landsat TM and SAR imagery at Wapta icefield. Brugman, M.M., et al. [1996,eng] 50-5545
- Mapping snow cover during the BOREAS winter experiment. Hall, D.K., et al. [1995,eng] 50-3105
- Mapping tide-water glacier dynamics in East Greenland using Landsat data. Dwyer, J.L., [1995,eng] 50-1879
- Measurement of ice-sheet topography using satellite-radar interferometry. Joughin, I., et al. [1996,eng] 50-4887
- Meteorological support for navigation along the Northern Sea Route. Kondrat'ev, K.I.A., et al. [1994,eng] 50-648
- Method of interpreting rock streams from aerial photographs (AFS). Ryzhikh, A.M., et al. [1993,rus] 50-116
- Microwave emission from polar firn. West, R.D., [1994,eng] 50-662
- Microwave remote sensing of ice sheets by SAR interferometry. Nishio, F. [1995,jpn] 50-1175
- Model of predicting snow disaster using NOAA/AVHRR data in Nagqu area of Xizang. Lu, A.X., et al. [1995,chi] 50-3987
- Model of snow disaster assessment using NOAA/AVHRR data in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3988
- Monitoring and modelling the ice conditions offshore Greenland. Valeur, H.H., et al. [1995,eng] 50-2971
- Monitoring lead dynamics with ERS-1 synthetic aperture radar imagery. Wackerman, C.C., et al. [1994,eng] 50-1512
- Monitoring snow cover on the Tibetan Plateau using passive microwave satellite data. Robinson, D.A., et al. [1995,eng] 50-4180
- Multisensor observations of winter sea ice in the Greenland Sea. Toudal, L., [1994,eng] 50-1514
- NOAA satellite snow cover monitoring of the upper Yellow River. Chen, X.Z., et al. [1990,chi] 50-6653
- NORMAP '89-Norwegian remote sensing spectrometry for mapping and monitoring of algal blooms and pollution. Pettersson, L.H., et al. [1992,eng] 50-622
- North-East Water polynya: satellite observations summer 1992 and 1993. Gudmandsen, P., et al. [1995,eng] 50-1814
- Numerical case study of a polar low in the Labrador Sea. Mailhot, J., et al. [1996,eng] 50-5869
- Oceanic remote sensing and sea ice monitoring. Johannessen, J.A., ed. et al. [1994,eng] 50-1509
- On the glaciology of Edgeøya and Barentsøya, Svalbard. Dowdeswell, J.A., et al. [1995,eng] 50-4712
- Operational use of ERS-1 SAR images in the Canadian ice monitoring programme. Shokr, M.E., et al. [1996,eng] 50-4017
- Optical processing of satellite images for land use planning in north central China. Liu, J.H., [1995,chi] 50-3996
- Oscillatory behavior in arctic sea ice concentrations. Gloersen, P., et al. [1996,eng] 50-4300
- Paleoclimatic interpretation of topographic variations in Tibetan lake shorelines. Avouac, J.P., et al. [1996,eng] 50-5094
- Photo-registration of pre- and post-breakdown situations in oil pipelines in Siberia. Eliseev, I.U.B., [1996,rus] 50-6858
- Pixel-scale ground snow survey for passive microwave study of the arctic snow cover. Woo, M.K., et al. [1995,eng] 50-3110
- Plume of the Yukon River in relation to the oceanography of the Bering Sea. Dean, K.G., et al. [1989,eng] 50-3933
- Polar lows in the Labrador Sea—a case study. Moore, G.W.K., et al. [1996,eng] 50-3821
- Potential icing forecast compared with NOAA-14 images. Fuchs, W., et al. [1996,eng] 50-5374
- Processing satellite images to determine snow cover depth. Pichugina, E.L., [1991,rus] 50-3
- Radiometric data and modeled snowpack conditions for Dye 2, Greenland. Mote, T.L., et al. [1996,eng] 50-4961
- Radiometry of icy Jovian satellites. Tamppari, L.K., et al. [1995,eng] 50-637
- Recent retreat of ice shelves on the Antarctic Peninsula. Vaughn, D., et al. [1995,eng] 50-2155
- Reduction of weather effects in the calculation for sea-ice concentration with the DMSP SSM/I. Cavallieri, D.J., et al. [1995,eng] 50-1867
- Regional and floe-floe deformation. Overland, J.E., et al. [1995,eng] 50-6286
- Relation between scattering coefficient and radiation flux over land-fast sea ice. Barber, D.G., et al. [1995,eng] 50-1816
- Remote sensing for mineral exploration in northern Xinjiang. Guo, H.D., et al. [1993,chi] 50-2384
- Remote sensing of sea ice by passive microwave radiometer. Enomoto, H., [1996,jpn] 50-3506
- Remote sensing of sea ice variations in response to atmospheric circulation. Maslanik, J.A., et al. [1995,eng] 50-1815
- River-coastal sea ice interaction model: Mackenzie River Delta. Searcy, C., et al. [1996,eng] 50-5265
- Rocky Mountain snowmelt on talus slopes by radar satellite. Maxfield, A.W., [1996,eng] 50-5544
- SAR interferometric signatures of forest. Wegmüller, U., et al. [1995,eng] 50-981
- SAR observations of arctic freeze-up compared to SSM/I during ARCTIC'91. Pettersson, M.I., et al. [1996,eng] 50-6694
- Satellite altimetry and FRAM model of the southern ocean. Snaith, H.M., [1994,eng] 50-1510
- Satellite imagery for avalanche forecasting and rescue. Granica, K., [1995,eng] 50-4168
- Satellite imagery for soil conservation in the loess plateau. Wang, C.Y., ed. et al. [1990,chi] 50-4165
- Satellite imagery of ice sheet drainage basins, Russian Arctic. Dowdeswell, J.A., et al. [1995,eng] 50-3327
- Satellite imagery of the onset of streaming flow of ice streams C and D, West Antarctica. Hodge, S.M., et al. [1996,eng] 50-4301
- Satellite mapping and monitoring of sea ice. Smith, D.M., et al. [1994,eng] 50-5197
- Satellite mapping of algal blooms and sea ice in the North Sea and IJsselmeer. Roozkrans, H., [1994,eng] 50-1517
- Satellite observation of lake ice as a climate indicator. Wynne, R.H., et al. [1993,eng] 50-2862
- Satellite radar detection of Alaskan forest ecosystem types. Harrell, P.A., et al. [1995,eng] 50-3493
- Satellite radar monitoring of ice drift in the Laptev Sea. Aleksandrov, V.I.U., et al. [1995,eng] 50-2062
- Satellite radar survey of Japan Sea ice processes. Martin, S., et al. [1995,eng] 50-1810
- Satellite remote sensing of the Arctic Ocean and adjacent seas. Comiso, J.C., [1995,eng] 50-1160
- Satellite remote sensing tools for sea ice engineering. Cavané, A., et al. [1995,eng] 50-184
- Satellite SAR identification of lake water resources on the North Slope. Jeffries, M.O., et al. [1996,eng] 50-6177
- Satellite snow monitoring and runoff forecasting for the Yellow River. Zeng, Q.Z., [1990,chi] 50-6650
- Satellite studies of pollution in the Barents and Kara seas. Kögeler, J., et al. [1995,eng] 50-4136
- Satellite systems for hazard monitoring. Barrett, E.C., et al. [1992,eng] 50-619
- Satellite tracking of high-arctic northern fulmars. Falk, K., et al. [1995,eng] 50-718
- Satellites for monitoring climate change. Kelkar, R.R., [1994,eng] 50-4826
- Sea ice concentrations derived from satellite microwave imagery. Lomax, A.S., et al. [1995,eng] 50-1244
- Sea ice concentrations derived from SMMR and SSM/I. Bjørge, E., et al. [1994,eng] 50-1513
- Sea ice detection at Showa Station from MOS-1 mosaics. Ishida, K., et al. [1996,jpn] 50-5892
- Sea ice radar backscatter and the fusion of active and passive microwave data. Beaven, S.G., [1995,eng] 50-4171
- Sea-ice velocity fields estimation on Ross Sea with NOAA-AVHRR. Motezuma Flores, M., et al. [1995,eng] 50-983
- Seasonal radar backscatter variation from boreal forests. Pulliainen, J.T., et al. [1996,eng] 50-4765
- Sensor mapping of arctic wetland distribution. Morrissey, L.A., et al. [1996,eng] 50-4764
- Sino-Kazakhstan-Mongolia border area tectonics from satellite data. Yang, D.C., et al. [1993,chi] 50-2385
- Snow and ice characteristics of the Bellingshausen Sea, during the spring melt. Aldworth, E., [1995,eng] 50-1022
- Snow mass in boreal forests derived from a modified passive microwave algorithm. Foster, J.L., et al. [1995,eng] 50-3718
- Snow monitoring from satellite data in Xizang. Feng, X.Z., et al. [1995,chi] 50-3986
- Snow monitoring in the United Kingdom using NOAA AVHRR imagery. Lucas, R.M., et al. [1994,eng] 50-167
- Snow-mass intercomparisons in the boreal forests. Foster, J., et al. [1996,eng] 50-5837
- Some active and passive microwave signatures of antarctic sea ice from mid-winter to spring 1991. Gohin, F., [1995,eng] 50-161
- Some results from geocoding and calibration of ERS-1 SAR FD images in mountainous areas. Johnsen, H., et al. [1995,eng] 50-3717
- Space data from scientific projects. Harries, J.E., [1991,eng] 50-4094
- Space imagery as a basis for modeling the dynamics of thermokarst lake plains. Viktorov, A.S., [1996,eng] 50-6647
- Space in the service of the changing Earth: Remote sensing for environmental monitoring and resource management, Vol.2. European "International Space Year" Conference, Munich, Germany, 30 March-4 April 1992. [1992,eng] 50-616
- Spaceborne photography of Spitsbergen marginal ice zone. Kergomard, C., [1989,fre] 50-5029
- Spaceborne radar imagery for ice reporting in the Baltic Sea. Hakansson, B., et al. [1995,eng] 50-1821
- Spaceborne radar photography of subarctic landscapes. Vachon, P.W., et al. [1995,eng] 50-4091
- Spaceborne radiometry of Barents Sea ice cover variations. Bjørge, E., et al. [1994,eng] 50-5077
- Spatial analysis operation of background database of snow disaster. Sun, W.X., et al. [1995,chi] 50-3980
- SSM/I mapped experimental environmental image products. Donahue, D.R., et al. [1992,eng] 50-3567
- SSM/I time series observations of Great Lakes ice and snow. Pilant, D., [1995,eng] 50-3107
- Stereo satellite image of sand particle transport in the Taklimakan Desert. Nagashima, H., [1991,jpn] 50-1433
- Studies on prediction method of snowmelt runoff in the upper reaches of the Yellow River. Song, Q., [1990,chi] 50-6654
- Studies on the method of image processing and analysis of lake ice and snow. Li, W.J., et al. [1995,chi] 50-3995
- Studies on the methods of extracting snow information from NOAA/AVHRR image. Li, W.J., et al. [1995,chi] 50-3982
- Study of extracting remote sensing information of snow disaster in Nagqu area of Xizang. Li, Z., et al. [1995,chi] 50-3981
- Study of remote sensing application in the loess plateau of north Shaanxi Province. Chinese Academy of Sciences. Institute of Remote Sensing Applications, Beijing (Zhongguo kexueyuan Yaogan yingyong yanjiusuo), [1991,chi] 50-6646
- Study on estimating snow cover. [1983,jpn] 50-2042
- Study on snow disaster monitoring using remote sensing in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3978
- Study on soil erosion in Inner Mongolia. Zhao, Y., et al. [1989,chi] 50-3269
- Study on the remote sensing information model of soil moisture. Ma, A.N., et al. [1990,chi] 50-6661
- Surveying and mapping program of the United States in Antarctica. Mullen, R.R., et al. [1993,eng] 50-592
- Synthetic analysis method of snow depth in Nagqu area of Xizang. Zeng, Q.Z., et al. [1995,chi] 50-3984
- Temporal analysis of ERS-1 SAR backscatter for hydrology applications. Crevier, Y., et al. [1996,eng] 50-5543
- Topographic origin for double-ridge features in visible imagery of ice divides in Antarctica. Goodwin, A.H., et al. [1995,eng] 50-1870
- Typification of USSR surface territory for the aerospace monitoring system. Apostolov, I.U.S., et al. [1992,rus] 50-3405
- U.S. FROST: Data and Science Plan. Report from the U.S. Science FROST Workshop, 2 and 3 August 1993. Bromwich, D.H., ed. et al. [1993,eng] 50-3332
- Unique aircraft icing event—a case study. Peters, J.L., [1990,eng] 50-4404
- Universal multifractal scaling of synthetic aperture radar images of sea-ice. Falco, T., et al. [1996,eng] 50-5685
- Use of remote sensing spacecraft in real-time support for disaster management. Torrici Montaperto, A., et al. [1992,eng] 50-620
- Use of SAR satellite imagery to measure active layer moisture contents in arctic Alaska. Kane, D.L., et al. [1994,eng] 50-5695
- Use of satellite data for river basin snow cover surveys. Krishna, A.P., [1996,eng] 50-4015
- User capabilities of the Defense Meteorological Satellite Program. Scharfen, G.R., et al. [1994,eng] 50-4792
- Using computers for MSS image analysis in land use classification. Cheng, X.J., et al. [1991,chi] 50-5111
- Using multiple data sources to enhance photogrammetry for mapping antarctic terrain. Fox, A.J., [1995,eng] 50-5536
- Using satellite photography in geocological studies in the cryolithosphere. Gavrilov, A.V., et al. [1996,rus] 50-6857
- Utility of imaging spectrometry for lithologic mapping in Greenland. Rivard, B., et al. [1992,eng] 50-1651
- Validation and evaluation of a workstation for monitoring sea ice. McIntyre, N., et al. [1994,eng] 50-1515
- Validation of backscatter models for level and deformed sea-ice in ERS-1 SAR images. Carlström, A., et al. [1995,eng] 50-1811
- Volcanic and tectonic history of Enceladus. Kargel, J.S., et al. [1996,eng] 50-3864
- Wind events compared with polynya area estimates derived from SSM/I data. Markus, T., et al. [1993,eng] 50-5596
- Winter-spring snow cover distribution in the upper Yellow River. Chen, X.Z., et al. [1990,chi] 50-6651
- Wintertime polar low over the eastern Weddell Sea. Heinemann, G., [1996,eng] 50-3708
- See also: LANDSAT
- Spacecraft**
- Altimeter retracking algorithm accuracy for Greenland ice sheet growth. Davis, C.H., [1995,eng] 50-980
- Altimetry of North Atlantic subpolar current variations. White, M.A., et al. [1995,eng] 50-2778
- Application of passive microwave retrieval algorithms to monitor global snow cover. Armstrong, R.L., et al. [1992,eng] 50-3562
- Comparison between snow cover products derived from visible and microwave satellite observations. Basist, A., et al. [1996,eng] 50-3007
- Comparison of ice-sheet satellite altimeter retracking algorithms. Davis, C.H., [1996,eng] 50-2703
- DEM corrected ERS-1 SAR data for snow monitoring in alpine regions. Guneriusson, T., et al. [1995,eng] 50-3716
- Detecting new-ice in the arctic from multispectral satellite data. Martin, T., et al. [1992,eng] 50-224
- Detection of polar stratospheric clouds from satellite. Meerkötter, R., et al. [1992,eng] 50-221
- Detection of polar stratospheric clouds with ERS-2/GOME data. Meerkötter, R., [1995,eng] 50-2150
- Effects of snowpack grain size on remote sensing of river basins. Josberger, E.G., et al. [1996,eng] 50-4302

Spain

Spectra

- ERS-1 altimetry on the Greenland ice sheet: preliminary investigations of annual variations. Andersen, O.B., [1994,eng] 50-5033
- Evaluating snow cover depth in a mountain basin from satellite information. Pichugina, E.L., et al, [1991,rus] 50-4
- Evaluation of SMMR satellite-derived snow depth using ground-based measurements. Tait, A., et al, [1996,eng] 50-4016
- Experimental voyage through Northern Sea Route. Yamaguchi, H., [1996,eng] 50-4425
- From Anik to MSAT: bringing modern communications to the North. Pool, A., [1996,eng] 50-2446
- Global identification of snowcover using SSM/I measurements. Grody, N.C., et al, [1996,eng] 50-2704
- ICESTAR: a spaceborne ice and coastal environment surveillance system. Cavalieri, D.J., et al, [1996,eng] 50-4482
- Improved use of passive microwave data for sea ice detection. Heygster, G.C., et al, [1992,eng] 50-225
- Intercomparison of mesoscale forecasts of aircraft icing using SSM/I retrievals. Tremblay, A., et al, [1996,eng] 50-4524
- Limiting resolution of ice-sheet elevations derived from pulse-limited satellite altimetry. Wingham, D.J., [1995,eng] 50-461
- Measuring a moving glacier. Sauber, J., et al, [1995,eng] 50-3355
- Meteorological satellite instrumentation. Kidder, S.Q., et al, [1995,eng] 50-3154
- Multi-temporal microwave satellite observations of plains snowpacks. Wankiewicz, A., et al, [1992,eng] 50-3563
- Oceanic satellite in the Global Ocean Observing System. Sherman, J.W., III, [1993,eng] 50-4801
- Performance assessment of the high resolution GPS ranging system. Deffenbaugh, M., et al, [1995,eng] 50-6309
- Remote sensing for global change, climate change and atmosphere & ocean forecasting. European "International Space Year" Conference, Munich, Germany, 30 March-4 April 1992. [1992,eng] 50-219
- Remote sensing of arctic sea ice using the ERS-1 SAR. Askne, J., et al, [1992,eng] 50-223
- Retrieval of cloud liquid water and precipitation from polarized microwave simulations. Bauer, P., et al, [1992,eng] 50-229
- Satellite observation of arctic ozone depletion. Müller, R., et al, [1996,eng] 50-6636
- Satellite sounding of arctic stratospheric temperatures. Claud, C., et al, [1996,eng] 50-3445
- Space data from scientific projects. Harries, J.E., [1991,eng] 50-4094
- Study of H₂O contamination on a cooled optical surface. Guo, Q., et al, [1995,eng] 50-627
- Surface temperature from ERS-1 ATSR infrared thermal satellite data in polar regions. Stroeve, J., et al, [1996,eng] 50-6568
- Telecommunications in Greenland: also for offshore activities. Malmberg, P., [1995,eng] 50-2968
- Upper Atmosphere Research Satellite (UARS) Microwave Limb Sounder (MLS) experiment. Waters, J., et al, [1992,eng] 50-3561
- Use of AVHRR-derived cloudiness and precipitation in weather forecasting. Karlsson, K.-G., [1992,eng] 50-228
- Use of remote sensing spacecraft in real-time support for disaster management. Tortorici Montapert, A., et al, [1992,eng] 50-620
- Warm core in a polar low observed with a satellite microwave sounding unit. Forsythe, J.M., et al, [1996,eng] 50-4186
- Spain**
- Comments on paper by González Suárez et al. Frochoso, M., et al, [1995,eng] 50-463
- Snow in the Spanish Cordilleras. ERHIN Program. 1991/92. [1995,spa] 50-1691
- Spain—Pyrenees**
- Avalanche mapping and related G.I.S. applications in the Catalan Pyrenees. Furdada, G., et al, [1995,eng] 50-1061
- Elaboration of a cadastre of avalanche paths in the Catalan Pyrenees. Martí, G., et al, [1995,eng] 50-4655
- Seismic detection in classifying avalanches. Sabot, F., et al, [1995,fre] 50-4642
- Study on the avalanche hazard in the central Spanish Pyrenees (Aragon region). Sáez Alagón, M.T., et al, [1995,fre] 50-4682
- Specific heat**
- Pressure, salinity, and maximum density temperature of sea water. Kukulk, D.J., et al, [1996,eng] 50-6441
- Specific retention (hydrology)**
- See [also]: Water retention
- Specific volume**
- See [also]: Density (mass/volume)
- Specifications**
- Arctic infrastructure—the need for dedicated Arctic research support. Pittenger, R.F., [1996,eng] 50-6676
- Development of a wind turbine system for Antarctica. Kimura, S., [1992,eng] 50-3633
- Full depth testing of frost susceptible soils. Rice, D.C., [1974,eng] 50-4401
- Grading, degradation and compaction considerations in relation to specimen preparation. Hughes, R., [1977,eng] 50-2316
- Military specification MIL-D-83411A(USAF). Deicer/anti-icer fluid (for runways and taxiways). U.S. Air Force, [1973,eng] 50-4607
- Specifying fracture toughness ranks high in line pipe selection. Kiefner, J.F., et al, [1995,eng] 50-4397
- Underground fuel tanks for Alaska. Freas, G.C., [1991,eng] 50-4226
- See [also]: Building codes; Design criteria; Standards

Spectra

- Acoustic wave perturbations within the Barents Sea Polar Front. Lynch, J.F., et al, [1996,eng] 50-4590
- Adsorption and photochemistry of dinitrogen tetroxide on low temperature ice layers. Riley, H., et al, [1996,eng] 50-4295
- Aging effects on translational lattice vibrations in ice I_h. Fukuzawa, H., et al, [1996,eng] 50-6615
- Airborne measurements of stratospheric constituents over the Arctic in the winter of 1989. Mankin, W.G., et al, [1990,eng] 50-6006
- Algorithm for radiometric image mapping of global snow cover. Hall, D.K., et al, [1995,eng] 50-1809
- Analysis of periodic variations in paleoclimatic indicators. Bolton, E.W., et al, [1995,eng] 50-1216
- Analysis of spatial reverberation statistics in the central Arctic. LePage, K., et al, [1996,eng] 50-5191
- Characteristics of sound reflected from sea ice. Aleksandrov, I.A., et al, [1995,eng] 50-3153
- Climate of western Siberia: past and future. Bukreeva, G.F., et al, [1995,eng] 50-6583
- Cloud attenuation of ultraviolet radiation in alpine regions. Blumhaller, M., et al, [1996,eng] 50-3610
- Cloud condensation nuclei over the Arctic Ocean in early spring. Hegg, D.A., et al, [1995,eng] 50-348
- Comments on the crystal structure of solid trichlorofluoromethane. Prado, P., et al, [1995,eng] 50-3144
- Complex refractive indices in the infrared of nitric acid trihydrate aerosols. Richwine, L.J., et al, [1995,eng] 50-1188
- Condensation of cometary ice analogs. Patnaik, A., et al, [1996,eng] 50-6222
- Depolarized light scattering spectroscopy of glassforming liquids: experimental tests of MCT. Cummins, H.Z., et al, [1995,eng] 50-1222
- Detection and monitoring of H₂O and CO₂ ice clouds on Mars. Bell, J.F., III, et al, [1996,eng] 50-5195
- Detection of polar stratospheric clouds with ERS-2/GOME data. Meerköter, R., [1995,eng] 50-2150
- Disorder in ice Ih. Nield, V.M., et al, [1995,eng] 50-1134
- Doppler electromagnetic analysis of ice cover gravity wave oscillations. Vdovichenko, S.P., [1996,eng] 50-5703
- ECMWF analyses and predictions of the surface climate of Greenland and Antarctica. Genthon, C., et al, [1995,eng] 50-1327
- Elastic constants of ice VI by Brillouin spectroscopy. Tulk, C.A., et al, [1996,eng] 50-5506
- ERS-1 altimetry on the Greenland ice sheet: preliminary investigations of annual variations. Andersen, O.B., [1994,eng] 50-5033
- Feasibility of infrared sensing of Martian cloud and surface ices. Johnson, B.R., et al, [1996,eng] 50-3865
- First observational evidence for condensation of Io's SO₂ atmosphere on the nightside. Buratti, B.J., et al, [1995,eng] 50-2154
- Fluorescence spectra and lifetime of 2-naphthol in H₂O and D₂O-ice(I_h) single crystal. Ping, Q., et al, [1995,eng] 50-2161
- Freeze-thaw effects on photoproduction of hydrogen peroxide in cloud waters. Arakaki, T., et al, [1995,eng] 50-1969
- Freeze/thaw treatment on waste activated sludge: a FTIR spectroscopic study. Hong, S.G., et al, [1995,eng] 50-1568
- Freezing and melting of mercury in porous glass. Kumzerov, I.U.A., et al, [1995,eng] 50-1132
- High-pressure Brillouin scattering and elastic properties of liquid and solid methane. Shimizu, H., et al, [1996,eng] 50-5682
- Ice active bacteria gene dynamics. Drinas, C., et al, [1995,eng] 50-2347
- Ice nucleation activity in antarctic plants. Worland, M.R., et al, [1996,eng] 50-6221
- Iceberg active and passive sonar acoustics and navigation safety along the Northern Sea Route. Gavrilov, V.P., et al, [1996,eng] 50-4483
- Infrared absorption coefficients of gaseous chlorine nitrate at 296 K. Tuazon, E.C., et al, [1989,eng] 50-4709
- Infrared measurement of arctic atmospheric chemical species. Wetzel, G., et al, [1995,eng] 50-2115
- Infrared spectroscopy of organics of planetological interest at low temperatures. Khanna, R.K., [1995,eng] 50-6566
- Infrasonic signatures of a polar low in the Norwegian and Barents Sea on 23-27 March 1992. Ørbeek, J.B., et al, [1995,eng] 50-2026
- Ion irradiation of astrophysical ices. Strazzulla, G., et al, [1995,eng] 50-3022
- Laboratory comparisons of organic materials to interstellar dust and the Murchison meteorite. Pendleton, Y.J., [1995,eng] 50-3025
- Laboratory infrared spectra (2.3-23 μm) of SO₂ phases: applications to Io surface analysis. Nash, D.B., et al, [1995,eng] 50-1463
- Laboratory technique for measurement of spectral induced polarization response of soil samples. Vanhala, H., et al, [1995,eng] 50-2998
- Lagrangian transport calculations using UARS data. Part II: ozone. Manney, G.L., et al, [1995,eng] 50-365
- Laser ablation of organic molecules from frozen matrices. Belov, M.E., et al, [1995,eng] 50-3720
- Lattice vibrations in ice I_h. Itoh, H., et al, [1996,eng] 50-6616
- Light-scattering spectrum of supercooled liquids. Latz, A., et al, [1996,eng] 50-5102
- Liquid-glass transition in a strong glassformer. Torelli, L.M., et al, [1995,eng] 50-1225

- Low brightness temperatures of Martian polar caps: CO₂ clouds or low surface emissivity? Forget, F., et al, [1995,eng] 50-2120
- Magnetic resonance imaging of frozen plant tissues. Gamble, G.R., [1994,eng] 50-3360
- Mean amplitude of the OH...O hydrogen bond in ice and liquid water. Iijima, T., [1996,eng] 50-5022
- Mechanism of formation of nanocrystalline hematite prepared by freeze-drying. Bermejo, E., et al, [1995,eng] 50-4289
- Mesoscale-fine structure relationship in antarctic ocean currents. Shapiro, G.I., et al, [1994,eng] 50-866
- Methodology of loess palynology. Zelikson, E.M., [1995,eng] 50-1049
- Micro-scale patterns of modern pollen deposition within three alpine plant communities. Pardoe, H.S., [1996,eng] 50-4253
- Microscopic dynamics of glycerol in its crystalline and glassy states. Bermejo, F.J., et al, [1996,eng] 50-4418
- Modeling the influence of ice on sea level variations in the Baltic Sea. Zhang, Z.H., et al, [1995,eng] 50-6758
- Molecular dynamic simulation of proton transport in supercooled water. Di Cola, D., et al, [1996,eng] 50-3715
- Monitoring clathrate hydrate formation on ice surfaces. Pietras, T., et al, [1995,eng] 50-2127
- Near UV polar stratospheric absorption measurements. Wahner, A., et al, [1990,eng] 50-6012
- Near-infrared absorption coefficients of solid nitrogen as a function of temperature. Tryka, K.A., et al, [1995,eng] 50-1078
- Neutral and ionized PAHs: contribution to the interstellar extinction. Salama, F., et al, [1995,eng] 50-3021
- Neutron scattering of high pressure ice polymorphs. Li, J.C., et al, [1996,eng] 50-6344
- New laser plasma source for extreme-ultraviolet lithography. Jin, F., et al, [1995,eng] 50-3678
- New look at the melting layer. Drummond, F.J., et al, [1996,eng] 50-4145
- Nonlinear acoustic effects due to cracks in ice cover. Ekinov, A.E., et al, [1996,eng] 50-5291
- O₂ on Ganymede: spectral characteristics and plasma formation mechanisms. Calvin, W.M., et al, [1996,eng] 50-4256
- Observation of a new absorption band of HOBr and its atmospheric implications. Barnes, R.J., et al, [1996,eng] 50-3968
- Observation of Fano interference in high-pressure ice VII. Aoki, K., et al, [1996,eng] 50-3337
- Observations of molecular ices. Whittet, D.C.B., [1993,eng] 50-3363
- On the global variation of precipitating layer clouds. Ryan, B.F., [1996,eng] 50-3293
- On the scattered radiation intensity fluctuations for a focused laser beam in snowfall. Vostretsov, N.A., et al, [1994,eng] 50-1285
- Organic compounds produced by photolysis of simulated cometary ices. Bernstein, M.P., et al, [1995,eng] 50-2724
- Oscillatory behavior in arctic sea ice concentrations. Gloersen, P., et al, [1996,eng] 50-4300
- Ozone abundance, cloud effects, and spectral irradiance. Stammes, K.H., et al, [1991,eng] 50-1417
- Parameterization of cloud ice crystal conversion processes. pt.1. Harrington, J.Y., et al, [1995,eng] 50-3260
- Phase transitions of water films adsorbed on pyrogenic silica. Bogdan, A., et al, [1996,eng] 50-2021
- Polar stratospheric radiation absorption measurements. pt.2. Schiller, C., et al, [1990,eng] 50-6013
- Production and chemical analysis of cometary ice tholins. McDonald, G.D., et al, [1996,eng] 50-5833
- Proton dynamics of doped ice. Akiyama, T., et al, [1996,eng] 50-6726
- Quaternary Fourier stratigraphy: orbital templates and Milankovitch anomalies. Berger, W.H., [1994,eng] 50-1066
- Radiometry of Scandinavian atmospheric chemistry. Wehr, T., et al, [1995,eng] 50-1332
- Reactivity of imidazoles in pulse and γ-irradiated liquid and frozen systems. Kalecińska, E., et al, [1996,eng] 50-3527
- Refractive index of ice in the 1.4-7.8-μm spectral range. Gosse, S., et al, [1995,eng] 50-3358
- Scavenging of electrons and radicals in frozen chloride-alcohol glasses. Kaleciński, J., [1996,eng] 50-3526
- Similarity of vibrational spectra of high-density amorphous ice and high-pressure phase ice VI. Kolesnikov, A.I., et al, [1995,eng] 50-937
- Simulated structure of ice nanocrystal surface. Buch, V., et al, [1996,eng] 50-4183
- Simulation of extraterrestrial ice radiation absorption properties. Schutte, W.A., et al, [1995,eng] 50-3023
- Simulation of rain production in convective clouds. pt.1. Reisin, T., et al, [1996,eng] 50-4369
- Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces. Zibordi, G., et al, [1996,eng] 50-5467
- Snow identification from radar wind profiler spectra. Ralph, F.M., et al, [1996,eng] 50-5163
- SO₂ distributions on Io. Sartoretti, P., et al, [1996,eng] 50-6529
- Spatial and temporal variability in southern ocean sea ice coverage. Stammerjohn, S.E., [1993,eng] 50-5520
- Spectra of mixed ices on Io. Dahmani, R., et al, [1996,eng] 50-6071
- Spectra of nitrogen component of ices in cosmic dust. Whittet, D.C.B., et al, [1996,eng] 50-6210
- Spectra of polar mesospheric noctilucent cloud ice nuclei. Sugiyama, T., et al, [1996,eng] 50-4255
- Spectral albedos of Charon's surface composition. Roush, T.L., et al, [1996,eng] 50-4002

Spectroscopy

- Spectral deviations of HF signals in antarctic radio lines. Khodzha-Akhmedov, Ch.L., et al. [1991, rus] 50-2271
- Spectral quality and absorption of solar radiation in a mountain birch forest, Abisko, Sweden. Ovsted, M., et al. [1995, eng] 50-2813
- Spectrometric detection of chloride ions in snow. Vanchikova, E.V., et al. [1995, eng] 50-3791
- Spectrometry of atmospheric emission over the South Pole. Van Allen, R., et al. [1996, eng] 50-4328
- Spectrometry of frozen organic surface ionization. Betts, R.L., et al. [1995, eng] 50-657
- Spectrometry of nucleic acid frozen solutions. Boriak, O.A., et al. [1996, eng] 50-4046
- Spectropolarimetry of the 3 micron ice feature toward the Becklin-Neugebauer object. Hough, J.H., et al. [1996, eng] 50-5504
- Spectroscopic damage to hydrated specimens in vitreous ice. Leapman, R.D., et al. [1995, eng] 50-1648
- Spectroscopy of deuterium oxide ice desorption and substrate wettability. Engquist, L., et al. [1995, eng] 50-1570
- Spectroscopy of ice clathrate decomposition to air bubbles. Pauer, F., et al. [1996, eng] 50-3067
- Spectroscopy of ices in quiescent cosmic dust clouds. Chiar, J.E., et al. [1995, eng] 50-2779
- Spectroscopy of photolysis in frozen solution systems. Yamuchi, S., et al. [1993, eng] 50-1467
- Study of ice spectra in cosmic dust. Brooke, T.Y., et al. [1996, eng] 50-3964
- Surface features of interstellar ice. McCoustra, M., et al. [1996, eng] 50-5244
- Testing mode-coupling theory for a supercooled binary Lennard-Jones mixture. Kob, W., et al. [1995, eng] 50-1227
- Theory of inelastic x-ray scattering by phonons in ice. Johansson, P., [1996, eng] 50-6329
- Thickness determination of a water film on dye-doped ice by fluorescence spectroscopy. Strausky, H., et al. [1996, eng] 50-3967
- Time dependence of dislocation arrays in ice during recrystallization. van der Elken, J., et al. [1996, eng] 50-6346
- Titan's surface: composition and variability from the near-infrared albedo. Coustenis, A., et al. [1995, eng] 50-2031
- Transition from normal to fast sound in liquid water. Sette, F., et al. [1996, eng] 50-5710
- Unfrozen water types in hydrated phospholipid bilayers. Hsieh, C.H., et al. [1995, eng] 50-3038
- Vegetational history of western Alaska during the Wisconsin glacial interval and the Holocene. Ager, T.A., [1982, eng] 50-3372
- X-ray analysis of frozen clathrate hydrates. Bednarek, J., et al. [1996, eng] 50-4555
- Spectroscopy**
- Airborne measurements of stratospheric constituents over the Arctic in the winter of 1989. Mankin, W.G., et al. [1990, eng] 50-6006
- Antarctic stratospheric spectroscopy using N₂O observations. Crewell, S., et al. [1995, eng] 50-1329
- Arctic atmospheric particle measurements from forward scattering spectrometer. Dye, J.E., et al. [1990, eng] 50-5995
- ATLAS instrument characterization: accuracy of the AASE and AAOE nitrous oxide data sets. Loewenstein, M., et al. [1990, eng] 50-6008
- Atomic emission spectrometry of Greenland snow lead impurities. Lobiński, R., et al. [1995, eng] 50-4082
- Bismuth in recent snow from central Greenland: preliminary results. Candelone, J.P., et al. [1995, eng] 50-779
- Comparative analytical techniques for glacial diamicton studies. Walden, J., et al. [1996, eng] 50-6537
- Comparison between arctic and antarctic polar stratospheric clouds. Dye, J.E., et al. [1996, eng] 50-6542
- Crystal structure of dichlorodifluoromethane. Pridmore, R.W., et al. [1996, eng] 50-4695
- Decadal evolution of the antarctic ozone hole. Jiang, Y., et al. [1996, eng] 50-5253
- Depolarized light scattering spectroscopy of glassforming liquids: experimental tests of MCT. Cummins, H.Z., et al. [1995, eng] 50-1222
- Detection and monitoring of H₂O and CO₂ ice clouds on Mars. Bell, J.F., III, et al. [1996, eng] 50-5195
- Doppler spectroscopy of antarctic wind velocities. Nakajima, H., et al. [1995, eng] 50-3811
- Dynamical influences on the antarctic ozone hole. Harvey, M.W., et al. [1996, eng] 50-6648
- Ground-based aerosol measurements at Arrival Heights, Antarctica. Kreher, K., et al. [1996, eng] 50-6681
- High-pressure Brillouin scattering and elastic properties of liquid and solid methane. Shimizu, H., et al. [1996, eng] 50-5682
- Lagrangian transport calculations using UARS data. Part II: ozone. Manney, G.L., et al. [1995, eng] 50-365
- Liquid-glass transition in a strong glassformer. Torelli, L.M., et al. [1995, eng] 50-1225
- Low-temperature amorphous phase in a fragile glass-forming substance. Cohen, L., et al. [1995, eng] 50-5971
- Microscopic dynamics of glycerol in its crystalline and glassy states. Bermejo, F.J., et al. [1996, eng] 50-4418
- N₂O as a dynamical tracer in the arctic vortex. Loewenstein, M., et al. [1990, eng] 50-6007
- Near UV polar stratospheric absorption measurements. Wahner, A., et al. [1990, eng] 50-6012

- NORSMAP '89-Norwegian remote sensing spectrometry for mapping and monitoring of algal blooms and pollution. Pettersson, L.H., et al. [1992, eng] 50-622
- Observed particle evolution in the polar stratospheric cloud of January 24, 1989. Dye, J.E., et al. [1990, eng] 50-5996
- Organic sedimentation in an arctic delta. Peulvé, S., et al. [1996, eng] 50-5819
- Photodissociation of condensed films of chlorine dioxide. Lanzendorf, E.J., et al. [1996, eng] 50-6679
- Polar stratospheric cloud event, 1989, pt.1. Poole, L.R., et al. [1990, eng] 50-6021
- Polar stratospheric radiation absorption measurements, pt.2. Schiller, C., et al. [1990, eng] 50-6013
- Polar stratospheric radiation absorption measurements, pt.3. Wahner, A., et al. [1990, eng] 50-6016
- Positive ion depletion in a nucleic acid cloud. Balsiger, F., et al. [1996, eng] 50-3604
- Quasielastic neutron scattering in glass forming viscous liquids. Petry, W., et al. [1995, eng] 50-1224
- Rapid screening of metals using portable high-resolution x-ray fluorescence spectrometers. Hewitt, A.D., [1995, eng] 50-1075
- Rocket-borne spectrometry of arctic stratospheric chemistry. Schlager, H., et al. [1990, eng] 50-5998
- Spectrometry of Norwegian Sea water radioactive isotopes. Moran, S.B., et al. [1995, eng] 50-1186
- Spectroscopic analysis of frozen cement paste microstructure. Olson, R.A., et al. [1995, eng] 50-1406
- Spectroscopic measurements of ice XI. Li, J.C., et al. [1995, eng] 50-518
- Spectroscopy of antarctic stratospheric ozone variations, pt.2. Cheng, D.J., et al. [1996, eng] 50-4349
- Structure of solid fluorocarbon. Torrie, B.H., et al. [1996, eng] 50-4696
- Surface spectrometry of arctic seasonal atmospheric ozone variations. Pommeroy, J.P., et al. [1988, eng] 50-4636
- Thermal investigation of crystal nucleation from a supercooled liquid. Mu, R., et al. [1996, eng] 50-4354
- Thermospheric neutral winds at Watson Lake, Yukon Territory. Niciejewski, R.J., et al. [1996, eng] 50-6683
- Titan's surface: composition and variability from the near-infrared albedo. Coustenis, A., et al. [1995, eng] 50-2031
- Total ozone during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990, eng] 50-5974
- Utility of imaging spectrometry for lithologic mapping in Greenland. Rivaud, B., et al. [1992, eng] 50-1651
- Water vapor saturation at low altitudes around Mars aphelion: a key to Mars climate? Clancy, R.T., et al. [1996, eng] 50-5831

See [also]: Ice spectroscopy; Infrared spectroscopy

Spectral reflection

- Sliding of glacial till over bedrock. Hindmarsh, R.C.A., [1996, eng] 50-6238
- Spectral scattering and crystal dynamics in cirrus clouds. Lynch, D.K., et al. [1994, eng] 50-1115
- Validation of backscatter models for level and deformed sea-ice in ERS-1 SAR images. Carlström, A., et al. [1995, eng] 50-1811
- Spheres**
- Comment on paper by Papastoris et al. Hill, S.C., et al. [1996, eng] 50-6336
- Mass dependence of energy loss in collisions of icy spheres: an experimental study. Dilley, J., et al. [1996, eng] 50-5196
- Radio wave scattering from melting snow particles. Zhang, W., et al. [1996, eng] 50-6622

Spillways

- Danger of lake burst flooding from a Himalayan glacial lake. Watanabe, T., et al. [1995, eng] 50-3338
- New, low-cost ice control structure. Part 1: concept development. Lever, J.H., et al. [1996, eng] 50-6158
- New, low-cost ice control structure. Part 2: construction and performance. Lever, J.H., et al. [1996, eng] 50-6159

Spongy ice

- Attenuation of microwaves by spherical hail. Battan, L.J., et al. [1986, eng] 50-4639
- Freshwater spongy spray icing model with surficial structure. Blackmore, R.Z., et al. [1996, eng] 50-5335

Spray

See [also]: Sea spray

Spray freezing

- Applications of biological ice nucleators in spray-ice technology. LaDuca, R.J., et al. [1995, eng] 50-3289
- Freeze protection of Florida citrus with microsprinkler irrigation. Parsons, L.R., et al. [1995, eng] 50-3074
- Freshwater spongy spray icing model with surficial structure. Blackmore, R.Z., et al. [1996, eng] 50-5335
- Ice loss. Rice, D., [1996, eng] 50-5083
- Mathematical model of spray ice island creep. Thiel, D.T., et al. [1991, eng] 50-1720
- Microsprinkler irrigation for freeze protection of young citrus trees. Davies, F.S., [1995, eng] 50-3075
- Spray freezing to treat oil sands tailings pond water. Gao, W., et al. [1996, eng] 50-6112
- Tree-clip development in microirrigation allows easy frost and freeze protection. Thayer, S.S., [1995, eng] 50-3076
- Turbine engine icing spray bar design issues. Bartlett, C.S., [1995, eng] 50-1654

Springs (water)

- Thermal origin spring below Mount Gnällberget (Hornsund, Spitsbergen). Pociask-Karteczka, J., [1989, eng] 50-2922
- See [also]: Hot springs

Stabilization

Stability

- Alleviating the effects of frost action on gas distribution and regulator station piping. Arnold, J.M., et al. [1985, eng] 50-4363
- Analyzing frozen soil stability in Siberian oil and gas production regions. Tumel, N.V., et al. [1994, rus] 50-262
- Asymptotic stability of the viscous-plastic sea ice rheology. Schulkes, R.M.S.M., [1996, eng] 50-4534
- Automated wind tunnel measurements. Stumpf, P., et al. [1994, eng] 50-3689
- Behavior of the East Antarctic ice sheet as deduced from a coupled GCM/ice-sheet model. Verbitskii, M.I.A., et al. [1995, eng] 50-4538
- Calculation of free energy for molecular crystals by thermodynamic integration. Báez, L.A., et al. [1995, eng] 50-1951
- Changes of model mixtures during freezing and drying. Shalae, E.U., et al. [1996, eng] 50-4531
- Characterization of a novel ice-nucleating bacterium. Kawahara, H., et al. [1995, eng] 50-1960
- Cold regions aspects of mobile test bed hardening in Montana. Blaisdell, G.L., et al. [1987, eng] 50-2725
- Coupled vertical and horizontal galloping—discussion. Havard, D.G., et al. [1993, eng] 50-3253
- Cryogenic landslides on the Yamal Peninsula, Russia: preliminary observations. Leibman, M.O., [1996, eng] 50-6703
- Cyclic direct simple shear testing of a Beaufort Sea clay. McCarron, W.O., et al. [1995, eng] 50-579
- Effects of moraine-bank sediment budgets on valley glacier stability. Hunter, L.E., et al. [1996, eng] 50-6263
- Equilibrium constant for the reaction of ClO + O₂ <-> ClO₂. Demore, W.B., [1990, eng] 50-4732
- Freezing rate effects on colloid viscoelasticity. Sahagian, M.E., et al. [1995, eng] 50-1253
- Heat flux over a melting Greenland ice sheet. Braithwaite, R.J., [1995, eng] 50-1877
- Hindsight on river ice jam stability. Beltaos, S., [1996, eng] 50-6425
- Instability trends of inertially coupled galloping, part 1: initiation. Yu, P., et al. [1995, eng] 50-1053
- Instability trends of inertially coupled galloping, part 2: periodic variations. Yu, P., et al. [1995, eng] 50-1054
- Meteorites as surface exposure markers of blue icefield stability. Benoit, P.H., et al. [1994, eng] 50-1886
- Molecular dynamics study of the freezing of clusters of chalcogen hexafluorides. Kinney, K.E., et al. [1996, eng] 50-5780
- New arctic drilling rig [1987, eng] 50-4286
- New high-pressure phase of ice. Benoit, M., et al. [1996, eng] 50-6096
- Northern exposures. Thomson, K.S., [1993, eng] 50-3146
- Numerical simulation of polar lows. Grønås, S., et al. [1995, eng] 50-2525
- Oceanic methane hydrates: a "frontier" gas resource. Max, M.D., et al. [1996, eng] 50-4799
- Phase equilibria in extended simple point charge ice-water systems. Báez, L.A., et al. [1995, eng] 50-2606
- Pre-analysis of soil organic compound holding times. Hewitt, A.D., [1996, eng] 50-5961
- Proton-ordered ice structures at zero pressure. A quantum-mechanical investigation. Pisani, C., et al. [1996, eng] 50-5935
- Relation between sea ice loads and arctic offshore structures. Blanchet, D., et al. [1991, eng] 50-1721
- Residual entropy of ice. Ihm, J.S., [1996, eng] 50-3643
- Review of the geochemistry of methane in natural gas hydrate. Kvenvolden, K.A., [1995, eng] 50-6229
- Sample representativeness: The missing element in explosives site characterization. Jenkins, T.F., et al. [1996, eng] 50-5960
- Simulation of clathrate hydrate thermal conductivity. Inoue, R., et al. [1996, eng] 50-5505
- Singularities in simulation of ice sheet-solid impact regime. Darr, D.G., et al. [1995, eng] 50-2163
- Small ice cap instability in the presence of fluctuations. Lee, W.H., et al. [1995, eng] 50-641
- Soil freeze-thaw effects on bank erodibility and stability. Gatto, L.W., [1995, eng] 50-2706
- Solution and stability of natural convective snow in a melt puddle. Bogorodskii, P.V., [1995, eng] 50-2067
- Some effects of conductor twisting on galloping. Richardson, A.S., Jr., [1980, eng] 50-3698
- Stability of biogeocoenoses in the Far North. Meltzer, L.I., [1990, rus] 50-1602
- Stability of M₂ critical latitude in the Barents Sea. Furevik, T., et al. [1996, eng] 50-5262
- Stability of sublittoral, fine-grained sediments in a subarctic estuary. Amos, C.L., et al. [1996, eng] 50-4044
- Thermodynamic stability of hydrates for ethane, ethylene, and carbon dioxide. Kvamme, B., et al. [1996, eng] 50-5019
- Traction and hardening tests of mobile missile launcher over frozen ground. Chamberlain, E.J., et al. [1988, eng] 50-2524
- What makes permafrost permanent? Schoonmaker, D., [1993, eng] 50-3147
- Wind measurements at Ylläs broadcasting station 1982-1991. Lehtonen, P., [1992, eng] 50-3632
- X-ray analysis of frozen clathrate hydrates. Bednarek, J., et al. [1996, eng] 50-4555
- See [also]: Slope stability; Snow cover stability; Static stability

Stabilization

- Alternatives for closure of solid oily waste sites on the North Slope of Alaska. Kellems, B.L., et al. [1991, eng] 50-1709

Standards

- New lightweight technology for the primary cementing of oil-field casings in cold environments. Harris, K.L., [1991.eng] 50-1705
- Screw anchors economically control pipeline buoyancy in muskeg. Robertson, R., et al. [1995.eng] 50-4003
- See [also]: Channel stabilization; Snow stabilization; Soil stabilization
- Standards**
- Aggregate degradation in the frost heave test. Hill, J., [1977.eng] 50-2320
- Aircraft icing handbook. [1993.eng] 50-5064
- Arctic tanker structural requirement evaluation. Final report. McCallum, J.S., et al. [1995.eng] 50-4124
- Balancing safety and the environment. Mericas, D., et al. [1994.eng] 50-2123
- Cold region hydraulic oil applications. Uhrig, S.L., [1991.eng] 50-1758
- Comparison of load restriction timings determined using FHWA guidelines and frost tubes. Yesiller, N., et al. [1996.eng] 50-4752
- Comparison of two techniques for R-value calculation, using winter in-situ data. Flanders, S.N., et al. [1995.eng] 50-1979
- Concepts for frost design for upgraded runway at CONUS Base 18. Johnson, T.C., [1984.eng] 50-2308
- Confirming airworthiness prior to takeoff in icing conditions—pilot options. Eloranta, J.T., [1992.eng] 50-3798
- Discussion of paper by Aavik and Chandra. Mather, B., et al. [1995.eng] 50-4501
- Effect of mode of compaction on frost heave. Burns, J., [1977.eng] 50-2318
- Environmental loading studies for the CSA Offshore Structures Code. Allyn, N., et al. [1995.eng] 50-1411
- Evaluation procedures for deicing chemicals and improved sodium chloride. Chappelou, C.C., et al. [1993.eng] 50-875
- Frost heave—testing facilities. Kettle, R.J., [1977.eng] 50-2315
- Frost-heave test as a compliance requirement. Sherwood, P.T., [1977.eng] 50-2317
- Handling snow on the New Jersey Turnpike. Pagan, A.R., [1995.eng] 50-3859
- Ice is where you find it. Steenblik, J.W., [1995.eng] 50-4705
- Ice risk levels—a practical approach to design. Støttrup-Andersen, U., [1996.eng] 50-5354
- Icing degrades aircraft performance; fluids provide best defense against ice on the ground. [1992.eng] 50-3875
- Icing of wind turbine rotor blades during operation. Seifert, H., [1992.eng] 50-3631
- Infight icing part II: making hard choices. Steenblik, J.W., [1995.eng] 50-4703
- Infight icing part III: operations. Steenblik, J.W., [1995.eng] 50-4704
- Infight icing: certification vs. reality. Steenblik, J.W., [1995.eng] 50-1962
- Inherent variability of frost heave specimens. Nicholls, R.A., [1977.eng] 50-2319
- Meaningful wind chill indicators derived from heat transfer principles. Brauner, N., et al. [1995.eng] 50-1552
- Mechanical behavior of 18 Ni 200 grade maraging steel at cryogenic temperatures. Wagner, J.A., [1986.eng] 50-4101
- New U.S. rules established for aircraft ground deicing and anti-icing [1992.eng] 50-3576
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge. Alaska. Department of Environmental Conservation. Division of Environmental Quality. [1990.eng] 50-3913
- Parameterizing environmental assessments for oil and gas facility construction. Semenov, L.P., [1991.eng] 50-1765
- Pilot techniques during icing conditions. den Hertog, R., [1992.eng] 50-3795
- Polish testing standards for transmission line icing. Demicki, E., et al. [1996.eng] 50-5396
- Post-yield strength of icebreaking ship structural members. Des-Rochers, C.G., et al. [1995.eng] 50-877
- Power loss in inclement weather. Volk, L., [1992.eng] 50-3796
- Predicting brick frost-resistance. I. Robinson, G.C., et al. [1995.eng] 50-1109
- Probability distributions used in 100-year return period of air-freezing index. Steurer, P.M., [1996.eng] 50-4753
- Proceedings. Colloquium on Frost Heave Testing and Research. Nottingham, England, May 18, 1977. [1977.eng] 50-2311
- Proceedings. International Experts' Meeting on Wind Power in Icing Conditions. Helsinki, Finland, 1992. Boreas-North Wind-Pohjatuuli. [1992.eng] 50-3626
- Rapid test for the determination of frost susceptibility of soils. Leary, R.M., [1977.eng] 50-4259
- Recommendations for concrete slab freeze-thaw testing. Réunion Internationale des Laboratoires d'Essais et de Recherches sur les Matériaux et les Constructions. [1995.eng] 50-1085
- Response of a research aircraft to icing and evaluation of severity indices. Politovich, M.K., [1996.eng] 50-4406
- Snow surveying in Canada: a perspective. Goodison, B.E., et al. [1987.eng] 50-4907
- Soil frost heave and bearing tests. Lausanne, Switzerland. Federal Institute of Technology. Laboratory of Soil Mechanics. (École Polytechnique Fédérale de Lausanne. Laboratoire de mécanique des sols) (Eidgenössische Technische Hochschule). [1988.fre] 50-1669
- Soil sample compaction degradation related to grading variations. Pike, D.C., [1977.eng] 50-2321

- Stability criteria in avalanche hazard forecasting. Perla, R.I., [1969.eng] 50-4260
- Standard test methods for tire performance testing on snow and ice surfaces. American Society for Testing and Materials. [1995.eng] 50-886
- Steel and steel reinforced concrete spans of modern bridges. Platonov, A.S., et al. [1995.rus] 50-3084
- Test program for aircraft ground anti-icing fluids. Myers, B.B., [1992.eng] 50-3797
- Wind measurements at Ylläs broadcasting station 1982-1991. Lehtonen, P., [1992.eng] 50-3632
- See [also]: Building codes; Design criteria

Starters

- See [also]: Engine starters
- Static electricity**
- Atmospheric electricity and charge transfer from temperature gradients in ice. Latham, J., [1967.eng] 50-5786
- Conductivity effects on electromagnetic emissions (EME) from ice fracture. O'Keefe, S.G., et al. [1996.eng] 50-4221
- Quartzlike polymorph of ice. Svishchev, I.M., et al. [1996.eng] 50-4412
- Static loads**
- Deformation properties of saline frozen rocks. Brushkov, A.V., [1996.rus] 50-6829
- Low temperature behaviour of CFRP prestressed concrete beams. Bryan, P.E., et al. [1996.eng] 50-5811
- Pipe rigidity as a failure index under explosive loads. Abd El Halim, A.O., et al. [1996.eng] 50-5047
- Triaxial tests on crushed ice. Singh, S.K., et al. [1996.eng] 50-5468

Static stability

- Boundary-layer ozone depletion as seen in the Norwegian arctic in spring. Solberg, S., et al. [1996.eng] 50-4152
- Northumberland Strait bridge: analysis techniques and results. Ghali, A., et al. [1996.eng] 50-5046
- Perturbation-based finite element analyses of transmission line galloping. Desai, Y.M., et al. [1996.eng] 50-4291

Stations

- 1971 performance survey of DEW Line ice cap stations DYE-2 and DYE-3. Flax, D., et al. [1971.eng] 50-5756
- 1994-1995 antarctic field season. Roberts, C.A., et al. [1995.eng] 50-2477
- ALOMAR—a new facility for middle atmosphere research at arctic latitudes. Thrane, E.V., et al. [1995.eng] 50-4261
- Alpine base for glacier-regime studies in Uzbekistan. Konov-alov, V.G., [1993.eng] 50-6343
- Antarctic commune: CRREL searches for safe land route to South Pole. Chalmers, P., [1996.eng] 50-3239
- Avalanche dynamics: introduction to the Lautaret Pass avalanche experimental site. Ousset, F., et al. [1995.fre] 50-4678
- Clean-up programme of stations of the Alfred Wegener Institute. Kohnen, H., [1994.eng] 50-4271
- Contributions to antarctic research IV. Elliot, D.H., ed. et al. [1995.eng] 50-1190
- Design of undersnow facilities for Byrd Station. Mellor, M., et al. [1962.eng] 50-3805
- Dome-Fuji deep drilling facility. JARE 35. Saito, T., [1995.jpn] 50-3497
- Environmental evaluation of the rebuilding of Signy Station. British Antarctic Survey. [1990.eng] 50-1546
- Glaciological station in Swedish Lapland. Schytt, V., [1962.swe] 50-3944
- Last Russian scientist in Spitsbergen. [1996.eng] 50-3491
- NERC Arctic research station. Cox, N., [1996.eng] 50-3705
- Producing energy for polar stations from the wind-water temperature gradient. LeGoff, H., et al. [1994.eng] 50-4275
- Progress in glaciology and Quaternary glaciation research in China since 1978. Shi, Y.F., et al. [1995.eng] 50-4510
- Reinforcing the permafrost foundation of the Gornegrat Observatory. Vonder Mühl, D., et al. [1995.ger] 50-4174
- Relocation of telecommunication facilities at Syowa Station. Takada, K., [1995.jpn] 50-3499
- Russian alternative energy sources in the Antarctic. Sheinstein, A.S., [1994.eng] 50-4276
- Status report on alternative energy systems at antarctic stations. Guichard, A., [1994.eng] 50-6423
- Towards new energy systems for antarctic stations. Guichard, A., [1994.eng] 50-4274
- U.S. Army research camps in northwest Greenland. Tobiasson, W., [1968.eng] 50-3882
- Utilities and systems for the new Amundsen-Scott Station. Theno, S., et al. [1996.eng] 50-6142
- Waste management concept at the German winter station Neumayer. El Naggar, S., et al. [1994.eng] 50-4269
- See [also]: Drift stations; Weather stations

Statistical analysis

- 1991 ice jamming along the Saint John River: a case study. Beltaos, S., et al. [1996.eng] 50-5809
- Accuracy of Tretyakov precipitation gauge: result of WMO intercomparison. Yang, D.Q., et al. [1995.eng] 50-3115
- Accuracy of Tretyakov precipitation gauge: result of WMO intercomparison. Yang, D.Q., et al. [1995.eng] 50-6044
- AFGWC snow analysis model. Hall, S.J., [1986.eng] 50-2469
- Alaskan Palaeogene climates as inferred from the CLAMP database. Wolfe, J.A., [1994.eng] 50-908
- Algorithm for simulating wave propagation through sea ice. Blackowiak, A.D., et al. [1995.eng] 50-1644
- Alpine glacial advances derived from summer air temperature records. Bray, J.R., [1982.eng] 50-3380
- Analysis of periodic variations in paleoclimatic indicators. Bolton, E.W., et al. [1995.eng] 50-1216

Statistical analysis

- Analysis of spatial reverberation statistics in the central Arctic. LePage, K., et al. [1996.eng] 50-5191
- Analysis of stone size and shape in arctic environments. King, C.A.M., et al. [1968.eng] 50-5760
- Applications of fuzzy cluster analysis to integrated assessment of snow disaster. Feng, X.Z., et al. [1995.chi] 50-3989
- Arctic atmospheric aerosol number size distributions. Covert, D.S., et al. [1996.eng] 50-4315
- Arctic vegetation types as response predictors to global change. Chapin, F.S., III, et al. [1996.eng] 50-6557
- Are arctic soft-sediment macrobenthic communities impoverished. Kendall, M.A., [1996.eng] 50-6720
- Arsenic pollutants in Pechora Sea sediments. Loring, D.H., et al. [1995.eng] 50-1829
- Asymptotic stability of the viscous-plastic sea ice rheology. Schulkes, R.M.S.M., [1996.eng] 50-4534
- Atmospheric aerosol in the Finnish Arctic. Virkkula, A., et al. [1995.eng] 50-4952
- Atmospheric aerosol turbidity over polar regions. Radionov, V.F., et al. [1995.eng] 50-6326
- Atmospheric contribution to hydrologic variations in the Arctic. Walsh, J.E., et al. [1994.eng] 50-1034
- Avalanche accidents in France from 1971 to 1974. Sivardière, F., et al. [1995.fre] 50-4641
- Avalanche accidents this season. [1996.eng] 50-4762
- Avalanche activity during major avalanche events, a case study for hydroelectric reservoirs. Schaefer, M., [1995.eng] 50-4660
- Avalanche climatology of the continental zone in the southern Rocky Mountains. Mock, C.J., [1995.eng] 50-969
- Avalanche frequency at Roger's Pass, British Columbia, Canada. Smith, M.J., et al. [1995.eng] 50-4681
- Back to basics: world climatic types. Salmond, J., et al. [1996.eng] 50-3726
- Background stratospheric aerosol and polar stratospheric cloud reference models. McCormick, M.P., et al. [1996.eng] 50-6712
- Barents Sea ice concentration from SSM/I data. Smith, D.M., [1996.eng] 50-6695
- Basis for statistical inferences in coastal injury assessment of Exxon Valdez oil spill. McDonald, L.L., et al. [1995.eng] 50-3922
- Bottom biocoenoses of the Laptev Sea and adjacent areas. Sirenko, B.I., et al. [1995.eng] 50-2088
- Boundary-layer ozone depletion as seen in the Norwegian arctic in spring. Solberg, S., et al. [1996.eng] 50-4152
- Calculation methods for avalanche run-out distance for the Austrian Alps. Lied, K., et al. [1995.eng] 50-4649
- Calculation of the strength of the ice cover during breakup of rivers. Ginzburg, B.M., et al. [1995.eng] 50-351
- Characteristics of frequency spectra of wind waves in the presence of ice floes. Hayakawa, T., et al. [1996.jpn] 50-5881
- Characteristics of sound reflected from sea ice. Aleksandrov, I.A., et al. [1995.eng] 50-3153
- Characterizing multi-temporal alpine snowmelt patterns for ecological inferences. Allen, T.R., et al. [1993.eng] 50-1447
- Chlorophyll fluorescence as spruce frost hardness indicator. Binder, W.D., et al. [1996.eng] 50-6519
- Choosing the route of overhead lines in the Czech Republic. Zálesák, Z., et al. [1996.eng] 50-5398
- Climate change and GCM simulation of water resources from mountain snowpack. McGinnis, D.L., [1994.eng] 50-6690
- Climate of western Siberia: past and future. Bukreva, G.F., et al. [1995.eng] 50-6583
- Climatic and geographic patterns in snow density dynamics, northern Eurasia. Onuchin, A.A., et al. [1996.eng] 50-4342
- Climatic trends in the Colorado-Big Thompson Project area. U.S. Bureau of Reclamation. Denver Office, Denver, CO. [1994.eng] 50-5007
- Climatological aspects of cyclone development and decay in the Arctic. Serreze, M.C., [1995.eng] 50-599
- Coherent observation operators for surface data assimilation with application to snow depth. Urban, B., [1996.eng] 50-3008
- Combined wind and ice loads on telecommunication towers in Quebec, Phase I. Elfashny, K., et al. [1996.eng] 50-5353
- Comment on paper by Schaefer et al. Davies, T.D., et al. [1996.eng] 50-3647
- Comments on paper by Dey et al. Ropelewski, C.F., et al. [1984.eng] 50-4916
- Comments on the Climax I and II experiments including replies to Rangno and Hobbs. Mielke, P.W., Jr., et al. [1995.eng] 50-640
- Comparison between neural network and statistical snowfall prediction methods. McGinnis, D.L., [1994.eng] 50-4356
- Comparison of geostatistical methodologies used to estimate snow water equivalent. Carroll, S.S., et al. [1996.eng] 50-4409
- Comparison of second-order classifiers for SAR sea ice discrimination. Barber, D.G., et al. [1993.eng] 50-1446
- Comparison of shoreline assessment study designs used for the Exxon Valdez oil spill. Gilfillan, E.S., et al. [1996.eng] 50-5554
- Comparison of two avalanche forecasting models. Weiler, C., [1995.eng] 50-1060
- Concurrent ozone and temperature trends derived from ozononde stations. Fortuin, J.F.F., et al. [1995.eng] 50-1774
- Contemporary status of bottom fauna in the Chernaya Bay (Novaya Zemlya Archipelago). Matishov, G.G., et al. [1996.eng] 50-4147
- Controls on glacier surging in Svalbard. Hamilton, G.S., et al. [1996.eng] 50-4900

Statistical analysis

Statistical analysis

- Crop-hail damage in the Midwest corn belt. Hillaker, H.J., Jr., et al. [1985,eng] 50-4592
- Cryogenic fissures as a factor of soil anisotropy. Kulikov, A.I. [1996,eng] 50-5449
- Current water quality in Cook Inlet, Alaska, study. University of Alaska. Environment and Natural Resources Institute, [1995,eng] 50-4400
- Dating analysis of Norwegian Neoglacal moraines. Matthews, J.A., et al. [1996,eng] 50-4375
- Detection of climate change in the Arctic: an updated report. Ye, H.C., et al. [1994,eng] 50-3026
- Determination of snowcovered area by satellite SAR imagery. Seglenieks, F., et al. [1995,eng] 50-3106
- Diatom distribution on Baffin Island, Canada. Wolfe, A.P. [1996,eng] 50-6514
- Differences in the duration of snow cover on Scottish ski-slopes between mild and cold winters. Harrison, S.J. [1993,eng] 50-3014
- Direct measurements of transport and water properties through the Bering Strait. Roach, A.T., et al. [1995,eng] 50-566
- Distribution and transport of atmospheric water vapour over the arctic basin. Serreze, M.C., et al. [1995,eng] 50-5217
- Distribution of bacterioplankton in the Kara Sea in September 1993. Mitsukevich, I.N., et al. [1995,eng] 50-3537
- Distribution of $\delta^{18}\text{O}$ in precipitation on the Qinghai-Xizang Plateau. Zhang, X.P., et al. [1995,eng] 50-4512
- Distribution of sea-ice algae in Hudson Bay. Monti, D., et al. [1996,eng] 50-5211
- Distribution of seasonal net production of sea ice on the Arctic Ocean. Kakuta, S., et al. [1996,eng] 50-5894
- DTR and cloudcover in the Nordic countries: observed trends and estimates for the future. Kaas, E., et al. [1994,eng] 50-3027
- Dynamic model of the pelagic ecosystem of the Kara Sea. Lebedeva, L.P., et al. [1995,eng] 50-3540
- Dynamical influences on the antarctic ozone hole. Harvey, M.W., et al. [1996,eng] 50-6648
- Dynamics of metastable states: mode-coupling theory and beyond. Dufty, J.W., et al. [1995,eng] 50-1221
- Effect of electroporation on intracellular ice formation in rye leaf protoplasts. Chandrasekaran, M., et al. [1995,eng] 50-1465
- Effect of freezing of water samples on viable counts of environmental mycobacteria. Iivanainen, E., et al. [1995,eng] 50-1953
- Effect of microclimate on road superstructures. Final report. Dyali, M., et al. [1986,fre] 50-3320
- Effects of snowpack grain size on remote sensing of river basins. Josberger, E.G., et al. [1996,eng] 50-4302
- Elementary circulation mechanisms and external mass and energy exchange on Svalbard glaciers. Markin, V.A., [1972,rus] 50-524
- Environmental loading studies for the CSA Offshore Structures Code. Allyn, N., et al. [1995,eng] 50-1411
- Erosion rates and sediment yields of glaciers. Bogen, J., [1996,eng] 50-6239
- Estimate of the early Tertiary paleoclimate of the southern Arctic. Tiffany, B.H., [1994,eng] 50-911
- Estimating ice-active bacterial population on mango leaves. Cazorla, F.M., et al. [1995,eng] 50-1652
- Estimation of aerosol deposition to a snow surface. Sharma, M., et al. [1995,eng] 50-3011
- Estimation of daily evapotranspiration from one time-of-day thermal infrared temperature. Li, F.Q., et al. [1990,chi] 50-6662
- Estimation of reliability of permafrost beds. Gerasimov, A.S., [1995,eng] 50-344
- Estimation of the autochthonous detritus flux through plankton communities of the Kara Sea. Lebedeva, L.P., et al. [1995,eng] 50-3541
- Estimation of the effect of operational seeding on rain amounts in Israel. Nirel, R., et al. [1995,eng] 50-1218
- Evaluation of the Bridger Range winter cloud seeding experiment using control gages. Super, A.B., et al. [1983,eng] 50-4637
- Evaluation of the changes in regional wintertime deposition in Finland during 1976-1993. Sovieri, J., et al. [1995,eng] 50-4956
- Extraction of deformation descriptors from spaceborne radar ice motion products. Li, S., et al. [1995,eng] 50-1812
- Failures of overhead lines due to ice and wet snow in Serbia. Vučković, Z., et al. [1996,eng] 50-5365
- Fall velocity of snowflakes. Justo, J.E., et al. [1971,eng] 50-3884
- Fatigue reliability calculation for structure members of offshore fixed platform. Fang, H.C., et al. [1995,eng] 50-218
- Fifteen years field trials of galloping controls for overhead power lines. Havard, D.G., [1996,eng] 50-5382
- Flashover between power lines caused by ice shedding. Savadjev, K., et al. [1996,eng] 50-5386
- Foraminiferal bottom sediment assemblages from West Antarctica. Chang, S.K., et al. [1995,eng] 50-3346
- Forecast of spring snowmelt runoff in the upper Yellow River. Lan, Y.C., et al. [1990,chi] 50-6652
- Forecasting avalanche flow during a snowfall using a weighted value method. Sezin, V.M., et al. [1991,rus] 50-13
- Formation of the air temperature field in the eastern Arctic and its effect on navigation. Dmitriev, A.A., [1990,rus] 50-334
- Freeze-thaw effects of fine-grained soil permeability. Eigenbrod, K.D., [1996,eng] 50-6749
- Frost heave in subgrade soils of hydraulic structures. Wang, J.G., et al. [1989,chi] 50-1360
- Frost-free record reconstruction for eastern Massachusetts, 1733-1980. Baron, W.R., et al. [1984,eng] 50-4915
- Fuzzy classification of earth terrain covers using complex polarimetric SAR data. Du, L., et al. [1996,eng] 50-4018
- Fuzzy mathematics in evaluating the tillability of land in Xinjiang. Ji, F., [1991,chi] 50-5109
- Geostatistical analysis of waterflood recoveries from an Alaskan drillsite. Wolcott, D.S., et al. [1991,eng] 50-1757
- Glaciers in the high Arctic and recent environmental change. Dowdeswell, J.A., [1995,eng] 50-5236
- Hail in southwestern France. 1. Hailfall characteristics and hail-storm environment. Dessens, J., [1986,eng] 50-4911
- Hail prevention in southwestern France. Dessens, J., [1986,eng] 50-4912
- Heat budgets of the Arctic Ocean and Nordic Seas. Simonsen, K., et al. [1996,eng] 50-4298
- Heat content of the ocean baroclinic layer as a predictor of variability of atmospheric circulation. Vangengeim, T.G., et al. [1990,rus] 50-333
- Himalayan summer snow cover and withdrawal of the Indian summer monsoon. Dey, B., et al. [1985,eng] 50-4970
- HIPLEX-1: statistical evaluation. Mielke, P.W., Jr., et al. [1984,eng] 50-4919
- How Agl aerosol dispersion may effect cloud seeding detection. Warburton, J.A., et al. [1995,eng] 50-347
- Hydrogeochemistry of Fraser River, British Columbia. Cameron, E.M., [1996,eng] 50-5815
- Hydrometeorological aspects of flood hazards in Canada. Lawford, R.G., et al. [1995,eng] 50-1853
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995,eng] 50-3123
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995,eng] 50-6046
- Ice accretion weight on overhead transmission line cables. Savadjev, K., et al. [1996,eng] 50-5351
- Ice age terrestrial carbon changes revisited. Crowley, T.J., [1995,eng] 50-1148
- Ice and snow damage to high voltage overhead lines in Romania. Goia, L.M., et al. [1996,eng] 50-5366
- Ice buoy tests of Barents Sea tidal motions. Pease, C.H., et al. [1995,eng] 50-2776
- Ice shedding from cables. Druze, J., et al. [1995,eng] 50-1144
- Ice-crystal fogs of central Sakha. Osipov, D.A., [1995,eng] 50-4702
- Iceberg-structure interaction probabilities for design. Fuglem, M., et al. [1996,eng] 50-5052
- Impact of potential TV tower icing on a nearby proposed expressway. Courtney, F.E., [1993,eng] 50-6664
- Importance of the correction of precipitation measurements on the Tibetan Plateau. Ueno, K., et al. [1996,eng] 50-5775
- Improved detection of acoustic sources in ice-riding ocean environment. Zala, C.A., et al. [1995,eng] 50-1461
- Improved fuzzy clustering algorithm for snow recognition. Liu, Z.K., et al. [1990,chi] 50-6658
- In situ measurements of BrO in the arctic stratosphere. Toohy, D.W., et al. [1990,eng] 50-6015
- Individual-based model of alpine plant distributions. Humphries, H.C., et al. [1996,eng] 50-3151
- Influence of forest fire aerosols on sampling of polar atmospheres. Polissar, A.V., et al. [1996,eng] 50-5206
- Initial snow chemistry survey of the Mogollon Rim in Arizona. Barbaris, B., et al. [1996,eng] 50-6711
- Interannual variability of sea-level pressure, sea-ice and runoff over the Arctic. Power, S.B., et al. [1991,eng] 50-5258
- Interannual variability of the ice cover in the Chukchi and Beaufort Seas. Chouinard, L.E., et al. [1995,eng] 50-187
- Intercomparisons of sea ice concentration from SSM/I and AVHRR data of the Ross Sea. Zibordi, G., et al. [1995,eng] 50-938
- Interdecadal climate variability in the subpolar North Atlantic. Wohleben, T.M.H., et al. [1995,eng] 50-2743
- Intraseasonal changes in ice conditions and conditions for ice navigation in the 20th century. Zakharov, V., et al. [1996,eng] 50-4481
- Isotopic analysis of snow on Asian glacier surfaces. Aizen, V.B., et al. [1996,eng] 50-5256
- Joint probability analysis for design storm evaluation. Kaur, S., et al. [1993,eng] 50-233
- Joint probability of environmental loads on marine structures. Liu, D.F., et al. [1995,eng] 50-196
- Lake surface pollen sediments across the Siberian tree line. Clayden, S.L., et al. [1996,eng] 50-6746
- Large eddy simulation of the turbulent flow in a marine convective boundary layer with snow. Rao, G.S., et al. [1996,eng] 50-3683
- Least average residual algorithm (LARA) for tracking the motion of arctic sea ice. Peddada, S.D., et al. [1996,eng] 50-5686
- Lichenometric analysis of the Kärkerieppe slush-avalanche fan, Kärkevagge, Sweden. Bull, W.B., et al. [1995,eng] 50-4191
- Lichenometric indications of the intensity of some exogenic processes. Galanin, A.A., [1996,rus] 50-6413
- Light scattering by absorbing hexagonal ice crystals in cirrus clouds. Zhang, J.Y., et al. [1995,eng] 50-984
- Light scattering by hexagonal ice prisms. 1. Small scattering angles. Petrusin, A.G., [1994,eng] 50-2709
- Links between proglacial stream sediments and glacier motion. Willis, I.C., et al. [1996,eng] 50-6091
- Liquid-glass transition in a strong glassformer. Torelli, L.M., et al. [1995,eng] 50-1225
- Long-range tropospheric transport of pollution aerosols into the Alaskan Arctic. Raatz, W.E., et al. [1984,eng] 50-4722
- Long-term arctic stratospheric temperature variations. Nagatani, R.M., et al. [1990,eng] 50-5978
- Long-term snow variations at Nagaoka, Japan. Nakamura, T., et al. [1996,eng] 50-4898
- Long-term variability of the atmospheric circulation over Spitsbergen. Niedzwiedz, T., [1993,eng] 50-2182
- Magnetic analysis of glacialic sediment weathering. Walden, J., et al. [1995,eng] 50-6562
- Major characteristics of snow disaster in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3977
- Manganese and other trace elements in urban snow near an expressway. Loranger, S., et al. [1996,eng] 50-5776
- Mantle rebound from data inversion of glacier isostatic dynamics. Peltier, W.R., et al. [1996,eng] 50-3548
- Mean annual air temperature trends since 1904 in the South Shetland Islands. Han, J.K., et al. [1995,chi] 50-5639
- Measurements of Alaskan spring atmospheric ozone content. Beine, H.J., et al. [1996,eng] 50-6640
- Megabenthic communities in the waters around Svalbard. Piepenburg, D., et al. [1996,eng] 50-6722
- Micro-scale patterns of modern pollen deposition within three alpine plant communities. Pardoe, H.S., [1996,eng] 50-4253
- Micrometeorological effects on alpine vegetation reproduction. Bergman, P., et al. [1996,eng] 50-5494
- Microwave retrieval algorithm for remote sensing of precipitation. Weng, F., et al. [1992,eng] 50-3566
- Millimetric radar backscatter from snowcover. Williams, L.D., et al. [1987,eng] 50-6200
- Minimum area and cover-abundance scales as applied to polar desert vegetation. Lévesque, E., [1996,eng] 50-5489
- Mode coupling in critical phenomena and supercooled liquids. Kawasaki, K., [1995,eng] 50-1219
- Mode coupling theory of structural relaxations. Götz, W., et al. [1995,eng] 50-1220
- Model for measuring PAH deposits on snow. Sharma, M., et al. [1995,eng] 50-3037
- Model of snow disaster assessment using NOAA/AVHRR data in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3988
- Modeling measurement errors when estimating snow water equivalent. Carroll, S.S., [1995,eng] 50-2605
- Moisture-based model for calculating daily changes in seasonal soil frost depth. Ryerson, C.C., [1979,eng] 50-3713
- Molecular dynamics investigations of slow relaxations in supercooled liquids. Hansen, J.P., et al. [1995,eng] 50-1226
- Monitoring soil condition in the northern Tibetan Plateau using SSM/I data. Chang, A.T.C., et al. [1996,eng] 50-6692
- Natural ice nucleus measurement under high supersaturation. Mizuno, H., et al. [1995,eng] 50-3719
- New ice jam database. White, K.D., [1996,eng] 50-4410
- North-East Water polynya: satellite observations summer 1992 and 1993. Gudmandsen, P., et al. [1995,eng] 50-1814
- Numerical studies of Langevin equations for the dynamics of a dense hard sphere fluid. Valls, O.T., et al. [1995,eng] 50-1228
- On a sampling error in hailpad measurements. Wirth, E., et al. [1983,eng] 50-4638
- On forecasting extreme average daily air temperatures in the Kara Sea. Korzhikov, A.I.A., [1990,rus] 50-324
- On the age of stratospheric air and inorganic chlorine and bromine release. Daniel, J.S., et al. [1996,eng] 50-6331
- On using historical comparisons in evaluating cloud seeding operations. Gabriel, K.R., et al. [1983,eng] 50-4492
- Oscillatory behavior in arctic sea ice concentrations. Gloersen, P., et al. [1996,eng] 50-4300
- Paleobotany and cladistics and cladistics in paleobotany: enlightenment and uncertainty. Nixon, K.C., [1996,eng] 50-4001
- Paleoclimatic interpretation of topographic variations in Tibetan lake shorelines. Avouac, J.P., et al. [1996,eng] 50-5094
- Passive microwave snow research in the Canadian High Arctic. Gan, T.Y., [1996,eng] 50-5540
- Patterns and causes of arctic plant community diversity. Walker, M.D., [1995,eng] 50-3889
- Patterns and causes of genetic diversity in arctic plants. McGraw, J.B., [1995,eng] 50-3891
- Plankton age variations in the Cooperation Sea. Budnichenko, E.V., [1994,eng] 50-868
- Plankton biomass variations in the Bering Sea. Tseitlin, V.B., et al. [1994,eng] 50-867
- Planktonic DNA diversity in the Canadian high Arctic. Van Raay, T.J., et al. [1995,eng] 50-4092
- Plant nutrient runoff in Norwegian watersheds. Haraldsen, T.K., et al. [1995,eng] 50-741
- Polar sea ice off West Greenland—a review. Fabricius, J.S., et al. [1995,eng] 50-2972
- Pollen assemblages from small Canadian arctic lakes. Gajewski, K., [1995,eng] 50-966
- Power law determination of ice crystal particle velocities. Mitchell, D.L., [1996,eng] 50-6558
- Predicting the location of permafrost in central Yukon Territory. Williams, D.J., [1995,eng] 50-5668
- Prediction of frost penetration beneath West Virginia pavements. Moulton, L.K., [1968,eng] 50-4549

Steam

- Probabilistic evaluation of snow cover stability on mountain slopes. Chernous, P.A., [1995,eng] 50-4689
- Probability distributions for peak stage on rivers affected by ice jams. Tuthill, A.M., et al., [1996,eng] 50-4754
- Probability distributions used in 100-year return period of air-freezing index. Steurer, P.M., [1996,eng] 50-4753
- Problem of choice of the design parameters for ice thickness. Polomoshnov, A.M., et al., [1996,eng] 50-5901
- Procedure for estimating ice load on overhead wires based on short term observations. Sakamoto, Y., et al., [1996,eng] 50-5363
- Processing and analysis of data from oceanographic field experiments. Golubev, V.A., et al., [1992,rus] 50-1261
- Prognostic relationships for more accurate general meteorological forecasts. Vangengeim, T.G., [1990,rus] 50-327
- PROTEON—a model for local forecasting of blowing snow. Guymarch, G., et al., [1995,fre] 50-4654
- Quasielastic neutron scattering in glass forming viscous liquids. Petty, W., et al., [1995,eng] 50-1224
- Quiescent-phase evolution of a surge-type glacier: Black Rapids Glacier, Alaska, U.S.A. Heinrichs, T.A., et al., [1996,eng] 50-4896
- Rates of rock surface lowering, Princess Elizabeth Land, eastern Antarctica. Spate, A.P., et al., [1995,eng] 50-4149
- Recent trends in maximum and minimum temperature threshold exceedances in the northeastern United States. DeGaetano, A.T., [1996,eng] 50-6572
- Reconstruction of the ice winter severity since 1701 in the western Baltic. Koslowski, G., et al., [1995,eng] 50-1957
- Regional snow and water balance models. Xu, C.Y., et al., [1996,eng] 50-5835
- Regional variations of moist static energy flux into the Arctic. Overland, J.E., et al., [1996,eng] 50-3816
- Relation between scattering coefficient and radiation flux over land-fast sea ice. Barber, D.G., et al., [1995,eng] 50-1816
- Research of the ice climatology of the Baltic Sea. Leppäranta, M., et al., [1996,eng] 50-5905
- Residual entropy of ice. Ihm, J.S., [1996,eng] 50-3643
- Revisiting the degree-day method for snowmelt computations—discussion. Howard, C.D.D., [1996,eng] 50-4411
- Rotifer ecology in high-altitude alpine sites. Jersabek, C.D., [1995,eng] 50-4163
- Runoff and sediment yield under grazing in foothills fescue grasslands of Alberta. Naeth, M.A., et al., [1996,eng] 50-3340
- Runoff modeling of a small river basin. Ambrose, B., et al., [1996,eng] 50-6586
- Sample representativeness: The missing element in explosives site characterization. Jenkins, T.F., et al., [1996,eng] 50-5960
- Satellite measurements of cloud microphysical properties. Poix, C., et al., [1996,eng] 50-4571
- Satellite monitoring of antarctic stratosphere volcanic aerosols. Saxena, V.K., et al., [1995,eng] 50-591
- Satellite snow monitoring and runoff forecasting for the Yellow River. Zeng, Q.Z., [1990,chi] 50-6650
- Saturated cemented porous material permeability during freezing. Kralj, B., et al., [1996,eng] 50-5024
- Sea ice data report. Kovacs, A., et al., [1970,eng] 50-3854
- Seasonal variability of sea ice sizes and thickness on the northern Sakhalin shelf. Polomoshnov, A.M., et al., [1995,eng] 50-189
- Seasonal variations in arctic glacier sediment transport. Hodgkins, R., [1996,eng] 50-6253
- Seed rain, seedling establishment and clonal growth strategies on a glacier foreland. Stocklin, J., et al., [1996,eng] 50-5295
- Shoreline ecology program following the Exxon Valdez oil spill, pt.1. Page, D.S., et al., [1995,eng] 50-3921
- Shoreline ecology program following the Exxon Valdez oil spill, pt.3. Gilliland, E.S., et al., [1995,eng] 50-3925
- Short term variations of sea ice cover. Chouinard, L.E., et al., [1995,eng] 50-186
- Siberian future climate predictions. Volkova, V.S., et al., [1995,eng] 50-6584
- Simple relationship between the properties of isotopic water. Vedamuthu, M., et al., [1996,eng] 50-4184
- Small basin modeling of snow water equivalence using binary regression tree methods. Elder, K., et al., [1995,eng] 50-2406
- Small-scale waves encountered during AASE. Bacmeister, J.T., et al., [1990,eng] 50-5982
- Snow and avalanche. Annual report 1994-95. Colorado Avalanche Information Center, [1995,eng] 50-4308
- Snow cover distribution on a Wyoming glacier. Elder, K., [1995,eng] 50-2438
- Snow damage to spruce trees during a fertilization experiment. Valinger, E., et al., [1996,eng] 50-4330
- Snowfall distribution on the seaside of Hokkaido, Japan. Tachibana, Y., [1995,eng] 50-342
- Snowmobile injuries in Kiruna, northern Sweden. Sundström, L., et al., [1994,eng] 50-602
- Snowpack water equivalent statistic derived from an observer network. Wilks, D.S., et al., [1996,eng] 50-5199
- Solar irradiance, air pollution and temperature changes in the Arctic. Stanhill, G., [1995,eng] 50-5231
- Solid phase sedimentation in the Barents Sea. Hulth, S., et al., [1996,eng] 50-6723
- Solidification controls in the French Alps. Pissart, A., [1993,eng] 50-839
- Sources of biogenic sulfur in the high Arctic. Hopke, P.K., et al., [1995,eng] 50-589

- Space-time distribution of temperature inversions in the arctic atmospheric boundary layer. Nagurnyi, A.P., [1995,eng] 50-2728
- Spaceborne radiometric determination of cloud structure. Pierdicca, N., et al., [1996,eng] 50-5683
- Spatial and temporal variability of North American snow cover, 1971-1992. Brown, R.D., [1995,eng] 50-3112
- Spatial and time variability of avalanche predictors and accuracy of their estimation. Chernous, P.A., [1995,eng] 50-4658
- Statistical validation of IR smart weapons scene generation. Welsh, J.P., et al., [1995,eng] 50-3754
- Statistical analysis of freezing tolerance indices from plant electrolyte variations. Anisko, T., et al., [1995,eng] 50-3612
- Statistical analysis of lithology of Arctic Ocean sediments. Darby, D.A., et al., [1996,eng] 50-5025
- Statistical analysis of precipitation and air temperature in the southern Patagonia icefield. Peña, H., et al., [1992,eng] 50-381
- Statistical analysis of Thayer Hill Road heave data. Harr, M.E., et al., [1995,eng] 50-2030
- Statistical characteristics of average daily air temperatures in the Arctic. Grakhevskii, G.N., [1990,rus] 50-322
- Statistical evaluation of glacier boreholes as indicators of basal drainage systems. Smart, C.C., [1996,eng] 50-6089
- Statistical parameters influencing mapping of subglacial topography. Herzfeld, U.C., et al., [1993,eng] 50-1033
- Statistical structure of the snow cover field in the Western Caucasus Mountains. Pogorelov, A.V., [1991,rus] 50-2
- Statistics of ice-structure interaction. Kajaste-Rudniski, J., [1995,eng] 50-199
- Structure of ice Ih from analysis of single-crystal neutron diffuse scattering. Nield, V.M., et al., [1995,eng] 50-2696
- Studies on prediction method of snowmelt runoff in the upper reaches of the Yellow River. Song, Q., [1990,chi] 50-6654
- Study of short term variability in oceanographic data with the aid of numerical filters. Potanin, V.A., et al., [1992,rus] 50-1267
- Study on estimating snow cover. [1983,jpn] 50-2042
- Study on predicting the fruit bearing patterns of Dahurian larch. Liu, X.T., et al., [1991,chi] 50-5840
- Study on some kinds of weather systems over and around the Qinghai-Xizang (Tibet) Plateau. Luo, S.W., et al., [1992,chi] 50-2178
- Study on some problems of cold waves in Xinjiang. Xu, J.Q., et al., [1985,chi] 50-2175
- Subglacial meltwater composition sampled through boreholes. Lamb, H.R., et al., [1995,eng] 50-2433
- Summer solstice solar radiation, the 100 kyr ice age cycle, and the next ice age. Ledley, T.S., [1995,eng] 50-1214
- Supraglacial debris transport over time. Whalley, W.B., et al., [1996,eng] 50-6258
- Surface morphology and backscattering of ice-ridge sails in the Baltic Sea. Manninen, A.T., [1996,eng] 50-4899
- Surface temperature from ERS-1 ATSR infrared thermal satellite data in polar regions. Stroeve, J., et al., [1996,eng] 50-6568
- Symposium on Environmental Toxicology and Risk Assessment, 3rd, Atlanta, GA, Apr. 26-28, 1993. Exxon Valdez oil spill: fate and effects in Alaska waters. [1995,eng] 50-3914
- Synoptic-statistical method of forecasting air temperature in the Arctic. Ivanov, V.V., [1990,rus] 50-329
- Temperature conditions in Iceland and the North Atlantic, 1901-1990. Einarsson, M.A., [1993,eng] 50-4770
- Temperature evolution of a chemically stratified lake. Spiegel, R.H., et al., [1996,eng] 50-6333
- Temporal and spatial variations in hail in the upper Great Plains and Midwest. Changnon, S.A., Jr., [1984,eng] 50-4497
- Temporal characteristics of Pennsylvania snowfall, 1950-1951 through 1989-1990. Acker, J.C., et al., [1995,eng] 50-970
- Test for time series homogeneity of hail-event data in Serbia. Gburcik, P., et al., [1994,eng] 50-3318
- Testing model-coupling theory for a supercooled binary Lennard-Jones mixture. Kob, W., et al., [1995,eng] 50-1227
- Tests for persistent effects of cloud seeding in a recent Australian experiment. Bigg, E.K., [1995,eng] 50-1249
- Theory of lattice Boltzmann simulations of glacier flow. Bahr, D.B., et al., [1995,eng] 50-1883
- Thermal balance of the surface of the Marukh Glacier. Voloshina, A.P., [1972,rus] 50-535
- Transport of chemical species from the northern polar vortex. Norton, W.A., et al., [1995,eng] 50-5917
- Tree ring value determination of climatic change in Switzerland. Vogel, R.B., et al., [1996,ger] 50-6714
- Turbulence in the statically unstable oceanic boundary layer under arctic leads. McPhee, M.G., et al., [1996,eng] 50-4297
- Ultrahine aerosol presence in the arctic atmospheric boundary layer. Wiedensohler, A., et al., [1996,eng] 50-4316
- Universal multifractal scaling of synthetic aperture radar images of sea-ice. Falco, T., et al., [1996,eng] 50-5685
- Urban hailstorms: a view from Alberta. Charlton, R.B., et al., [1995,eng] 50-3960
- Use of a GIS to develop a stratified snow survey in a mountainous agricultural landscape. Pierson, D., et al., [1995,eng] 50-3111
- Use of fractal parameters to detect active layer heat transfer. Hinkel, K.M., et al., [1995,eng] 50-1138
- Use of karst deposits in the French Jura for paleoclimatological analysis. Chaline, J., et al., [1995,eng] 50-1122
- Validation of avalanche forecasting systems. Bolognesi, R., [1996,fre] 50-4869
- Variation in snowmelt alimentation of annual river runoff. Bolgov, M.V., et al., [1996,eng] 50-5860

- Volcanic ash variations in the antarctic stratosphere. Anderson, J., et al., [1996,eng] 50-5613
- Would a helmet law for snowmobile riders reduce head injuries. Björnstig, U., et al., [1994,eng] 50-603
- Yearly cycle of lower tropospheric ozone at the Arctic Circle. Rummukainen, M., et al., [1996,eng] 50-5614
- Steam**
- Challenge of West Sak heavy oil: analysis of an innovative approach. Gondouin, M., et al., [1991,eng] 50-1713
- Effects of steam quality on cyclic steam stimulation at Cold Lake, Alberta. Ho, D.W., et al., [1991,eng] 50-1703
- Efficiency of steam and hot water heat distribution systems. Phetteplace, G., [1995,eng] 50-2390
- New laser plasma source for extreme-ultraviolet lithography. Jin, F., et al., [1995,eng] 50-3678
- Steam curing**
- See [also]: Concrete curing
- Steel structures**
- Arctic tanker structural requirement evaluation. Final report. McCallum, J.S., et al., [1995,eng] 50-4124
- Corrosion control paints for steel pipeline supports in cold regions. Nakamura, Y., et al., [1996,eng] 50-6121
- Design of girders for a bridge in Hokkaido subject to snow and wind. Endo, T., et al., [1995,jpn] 50-6807
- Driven pile capacities in warm permafrost in Komi Republic, Russia. Thompson, S.R., et al., [1996,eng] 50-6128
- Freeze-thaw studies on concrete structural elements. Ganga Rao, H.V.S., et al., [1993,eng] 50-5053
- Laboratory testing of air retarders in metal building panels. Flanders, S.N., et al., [1995,eng] 50-1980
- Laboratory tests for ice interaction with steel booms. Timco, G.W., et al., [1996,eng] 50-5812
- Low carbon steels for pressure vessels subject to low temperatures. Haney, F., et al., [1996,eng] 50-5956
- New arctic drilling rig. [1987,eng] 50-4286
- Steel and steel reinforced concrete spans of modern bridges. Platonov, A.S., et al., [1995,rus] 50-3084
- Steel pipe pile foundations for school building in saline permafrost. Merrill, K.S., et al., [1996,eng] 50-6127
- Thermodynamic evaluation of the cold resistance of steel elements. Shafrai, S.D., et al., [1995,rus] 50-721
- Western Conference, 1996. Controlling corrosion in northern latitudes. National Association of Corrosion Engineers (NACE) International, Houston, TX. Canadian Region, [1996,eng] 50-5945
- Winter protection for unprepared steel. [1989,eng] 50-5646
- Steels**
- Arctic tanker structural requirement evaluation. Final report. McCallum, J.S., et al., [1995,eng] 50-4124
- Concrete/reinforcing steel bond strength of low-temperature concrete. Schroeder, H.P., et al., [1996,eng] 50-4757
- Corrosion of pipeline steels in permafrost. White, W.E., et al., [1996,eng] 50-5954
- Lessons from failures in metal-structure buildings and structures in the North; a manual. Kornilov, T.A., et al., [1995,rus] 50-5140
- Low carbon steels for pressure vessels subject to low temperatures. Haney, F., et al., [1996,eng] 50-5956
- Low temperature behaviour of CFRP prestressed concrete beams. Bryan, P.E., et al., [1996,eng] 50-5811
- Manufacture and installation of duplex stainless steel line pipe for arctic application. Noble, D.N., [1996,eng] 50-5957
- Mechanical behavior of 18 Ni 200 grade maraging steel at cryogenic temperatures. Wagner, J.A., [1986,eng] 50-4101
- Method to prevent weld zone corrosion in offshore structures. DeGeer, D.D., et al., [1991,eng] 50-1726
- Question of using highly durable steels in the metal construction of load bearing machines. Pustovoi, V.N., [1992,rus] 50-759
- Specifying fracture toughness ranks high in line pipe selection. Kiefner, J.F., et al., [1995,eng] 50-4397
- Strength of composite ice-resisting walls subjected to combined loads. Stephens, M.J., et al., [1990,eng] 50-95
- Structural failure of the *Titanic*. Garzke, W.H., Jr., et al., [1994,eng] 50-5177
- Tests on the thermal behavior of steel in polar conditions (North Geographic Pole). Aguirre-Puente, J., et al., [1990,spa] 50-5528
- Thermodynamic evaluation of the cold resistance of steel elements. Shafrai, S.D., et al., [1995,rus] 50-721
- Stefan problem**
- Acoustic emissions during ice phase transformations. Sakharov, I.I., [1995,eng] 50-157
- Basic processes determining the rheological behavior of plastic-frozen ground under stress. Ukhov, S.B., et al., [1996,rus] 50-6827
- Development of a quantitative model of frost heave. Holden, J.T., [1977,eng] 50-2322
- On filtering consolidation of ground during pre-construction thawing. Barsegian, R.M., et al., [1996,rus] 50-6831
- Problem of primary frost heave with frost penetration. Ding, Z.Z., [1995,eng] 50-2162
- Structure, composition and properties of the ice cover of seas and fresh-water bodies. Savel'ev, B.A., [1963,rus] 50-3832
- Thermal stability of the freezing front in porous media such as soils. Bronfenbrener, L., et al., [1996,eng] 50-6479
- Steppes**
- Advanced classification system for Xinjiang soils. Li, Z.X., [1991,chi] 50-5112
- Approaches to mathematical modeling of the steppe-tundra paleoclimate. Gal-Chen, T., [1982,eng] 50-3379

Stereomapping

- Approaches to reconstructing the climate of the steppe-tundra biome. Barry, R.G., [1982,eng] 50-3378
- Assessing the hazard of too much or too little snow in the pastoral regions of China. Gu, Z.W., et al., [1995,chi] 50-3976
- Climate of Inner Mongolia. Wang, W.H., ed., [1990,chi] 50-2172
- Comparison of tundra-steppe development in Beringia. Gitterman, R.E., et al., [1982,eng] 50-3371
- Desertification and its control in China. Zhu, Z.D., et al., [1989,chi] 50-1851
- Drought and salt resistant plants in arid regions of China. Onmas, K., et al., [1991,jpn] 50-1442
- Ecologic-genetic analysis of tundra-steppe soils in northeastern Siberia. Cherniakhovskii, D.A., [1996,eng] 50-5447
- Environmental degradation in the northeastern Qinghai-Xizang Plateau. Zheng, Y.C., [1994,eng] 50-4786
- Estimating soil water content during global climatic warming. Velichko, A.A., et al., [1995,rus] 50-4115
- Genesis of mountain-meadow and mountain-meadow-steppe chernozem-like soils. Evdokimova, T.I., et al., [1995,rus] 50-3972
- Geographical patterns in the biological productivity of soil-and-vegetation associations. Bazilevich, N.I., [1995,eng] 50-3872
- Grassland ecosystems in eastern Inner Mongolia. Nemoto, M., [1991,jpn] 50-1440
- History of the steppe-tundra concept. Hibbert, D., [1982,eng] 50-3375
- Holocene vegetation history of the eastern Qinghai-Xizang Plateau. Frenzel, B., [1994,ger] 50-4778
- Land classification, land structure and comprehensive natural zonation of Xinjiang. Fan, Z.L., et al., [1991,chi] 50-5107
- Major characteristics of snow disaster in Nagqu area of Xizang. Feng, X.Z., et al., [1995,chi] 50-3977
- Natural resources of Inner Mongolia. Eer, D., ed., [1987,chi] 50-2290
- On the connexion of vegetation dynamics with climatic changes in High Asia. Mische, G., [1996,eng] 50-5089
- Relics of the xerophyte vegetation of Beringia in northeastern Asia. Uritsev, B.A., [1982,eng] 50-3376
- Research on the natural resources and environment of the Ordos Plateau in Inner Mongolia. Li, B., ed., et al., [1990,chi] 50-2011
- Satellite imagery for soil conservation in the loess plateau. Wang, C.Y., et al., [1990,chi] 50-4165
- Sharp and gradual mountain timberlines as a result of species interaction. Armand, A.D., [1992,eng] 50-4073
- Snow cover in the Siberian forest-steppe. Zykov, I.V., [1965,eng] 50-3424
- Soil degradation in the steppes of northern Mongolia. Opp, C., et al., [1993,eng] 50-1680
- Study on soil erosion in Inner Mongolia. Zhao, Y., et al., [1989,chi] 50-3269

Stereomapping

- Accuracy of SPOT digital elevation model and derivatives: utility for Alaska's North Slope. Sasowsky, K.C., et al., [1992,eng] 50-1448
- Holocene variations of Ameghino Glacier, southern Patagonia. Aniya, M., [1995,eng] 50-6081

Stereophotography

- Cryo-ultramicrotomy of individual latex particles for examination of internal morphology. Marcell, A.M., [1995,eng] 50-4958
- How to paint a snowflake. Benko, J.J., [1995,eng] 50-6205
- Stereo satellite image of sand particle transport in the Taklimakan Desert. Nagashima, H., [1991,jpn] 50-1433
- Study of the morphology of a discontinuous section of a first year arctic pressure ridge. Bowen, R.G., et al., [1996,eng] 50-3829
- Velocity measurement of glacial flow with aerial photogrammetry. Hofmann, W., [1958,ger] 50-5078

Stereoscopy

- Scanning electron microscopy of free water in frozen plant tissues. Yallich, R.W., et al., [1996,eng] 50-5209
- Tardigrada of the arctic tundra with descriptions of two new species. Maucci, W., [1996,eng] 50-5293

Stereotemplate triangulation

See [also]: Stereomapping

Storage

- County improves its snow and ice control program. da Cunha, M., [1996,eng] 50-6101
- Effects of northern shipping and storage on corrosion performance. Ferrigo, L.D., III, et al., [1996,eng] 50-5952
- Patent for use of heat storing mixtures. Kakiuchi, H., [1995,jpn] 50-5071
- Pre-analysis of soil organic compound holding times. Hewitt, A.D., [1996,eng] 50-5961
- See [also]: Cold storage; Ice (water storage); Oil storage; Snow retention; Underground storage; Water storage

Storage tanks

- Current status and problems of countermeasures against snow and cold for oil storage tanks. Toyama, S., [1988,jpn] 50-2284
- Ice tower—maximum capacity in the smallest area. Ganter, E., [1995,ger] 50-2607
- Low carbon steels for pressure vessels subject to low temperatures. Hanev, F., et al., [1996,eng] 50-5956
- Modeling of an ice-on-coil thermal energy storage system. Lee, A.H.W., et al., [1996,eng] 50-6715

- Modeling of ice thickness in manure pits. Carrier, D., et al., [1995,fre] 50-5658
- Painting fuel storage facilities with local labor in Nunavut. Prinsloo, H.F., [1996,eng] 50-5948
- Underground fuel tanks for Alaska. Freas, G.C., [1991,eng] 50-4226

See [also]: Tanks (containers)

Storms

- Canadian Atlantic Storms Program: progress and plans of the meteorological component. Stewart, R.E., [1991,eng] 50-4416
- Case analysis of antarctic strong cyclone process. Luo, Y.J., et al., [1989,chi] 50-6770
- Cloud structure derived from remote sensing measurements. Sassen, K., [1984,eng] 50-4921
- Detection and prediction of hail with Meteosat data. Messmer, B., et al., [1995,ger] 50-2539
- Detection and prediction of hail with Meteosat data. Messmer, B., et al., [1995,ger] 50-2539
- Exceptional storm and its effects in the Canadian High Arctic. Cogley, J.G., et al., [1976,eng] 50-3679
- Finger-shaped echoes of hailstorm and the possible mechanism of their formation. Ma, Z.H., et al., [1983,eng] 50-4096
- Formation of strong winds in the Arctic in groups of homogeneously developed macroprocesses. Kuznetsov, A.V., et al., [1990,rus] 50-323
- Mesoscale precipitation structure in winter storms. Ramamurthy, M.K., et al., [1991,eng] 50-4417
- Natural chemiluminescence of the marine environment under conditions of polar day and night. Lapshin, A.I., [1991,rus] 50-1315
- Sensitivity of squall-line rear inflow to ice microphysics and environmental humidity. Yang, M.J., et al., [1995,eng] 50-1527
- Spatial and temporal distribution of storm precipitation in southwestern British Columbia. Loukas, A., et al., [1996,eng] 50-2603
- Storm surges in Canadian waters. Murty, T.S., et al., [1995,eng] 50-1854
- Supercell simulations with simple ice parameterization. Tartaglione, N., et al., [1996,eng] 50-3709
- See [also]: Ice storms; Snowstorms; Thunderstorms

Strain measuring instruments

- Automated wind tunnel measurements. Stumpf, P., et al., [1994,eng] 50-3689
- Development and application of a low temperature triaxial testing apparatus. Zhang, C.Q., [1989,chi] 50-1379
- Field experiments on uplift force on a steel pipe due to frost heaving. Fukuda, M., et al., [1989,rus] 50-2248
- Hopkinson bar perforation of laminated composite. Nwosu, S.N., et al., [1995,eng] 50-2466
- Ice surface oscillation measurements on SIMI using strain, heave and tilt sensors. Wadhams, P., et al., [1995,eng] 50-6306
- Ice rate measurements: a key way of estimating ice loads on structures. Laflamme, J.N., [1996,eng] 50-5359
- Ice rate meter, an instrument to evaluate transmission line icing. McComber, P., et al., [1996,eng] 50-5357
- New transducer for measurement of ice loads for utilities. Seppa, T.O., [1996,eng] 50-5397
- Pack ice stresses and their relationship to regional deformation. Richter-Menge, J.A., et al., [1995,eng] 50-6287

Strain relaxation

See [also]: Relaxation (mechanics)

Strain tests

- Automated wind tunnel measurements. Stumpf, P., et al., [1994,eng] 50-3689
- Behavior of a sand in frozen and unfrozen states. Swan, C.W., [1996,eng] 50-6147
- Compressive creep of polycrystalline ice containing a liquid phase. de la Chapelle, S., et al., [1995,eng] 50-595
- Crack velocities in freshwater and saline ice. Petrenko, V.F., et al., [1996,eng] 50-5299
- Creep of saline ice at low stresses and high temperatures. Richter-Menge, J.A., et al., [1995,eng] 50-179
- Cyclic triaxial tests of the Bootlegger Cove Formation, Anchorage, Alaska. Lade, P.V., et al., [1988,eng] 50-405
- Deformation of ice under low stresses. Sego, D.C., et al., [1982,eng] 50-3787
- Ductile-to-brittle transition of compressed ice. Schulson, E.M., et al., [1995,eng] 50-2157
- Dynamic testing of frozen soil samples with an exploding wire system. Fyfe, I.M., [1968,eng] 50-1668
- Fatigue criteria for asphalt pavements. Laboratory and field criteria. Committee 34. Wiman, L.G., ed., [1996,swe] 50-5603
- Field experiments on uplift force on a steel pipe due to frost heaving. Fukuda, M., et al., [1989,rus] 50-2248
- Freeze-thaw studies on concrete structural elements. Ganga Rao, H.V.S., et al., [1993,eng] 50-5053
- Interpretation of field measurements for ice engineering applications. Gold, L.W., [1996,eng] 50-5050
- Large strain finite-element analysis of snow. Meschke, G., et al., [1996,eng] 50-5923
- Mechanical behavior of frozen earth materials under high pressure triaxial test conditions. Chamberlain, E.J., et al., [1970,eng] 50-3310
- Model of ductile behavior of columnar grained sea ice. Zhan, C., et al., [1996,eng] 50-5184
- Nucleation of microcracks in ice cubes compressed equally on all boundaries. Weiss, J., et al., [1996,eng] 50-5867

Stratification

- Observations of pressure effects on the creep of ice single crystals. Cole, D.M., [1996,eng] 50-4901
- Resilient modulus of cohesive soils and the effect of freeze-thaw. Lee, W.J., et al., [1995,eng] 50-578
- Soil deformation and stress analysis under a rolling wheel. Foster, W.A., Jr., et al., [1995,eng] 50-47
- Strength characteristics of frozen soil under torsional loading. Peng, W.W., et al., [1995,chi] 50-5638
- Uniaxial constant compressive stress creep tests on sea ice. Sinha, N.K., et al., [1995,eng] 50-3000

Strains

- Cyclic direct simple shear testing of a Beaufort Sea clay. McCarron, W.O., et al., [1995,eng] 50-579
- Effects of freeze-thaw cycling on geomembrane sheets and their seams. Comer, A.I., et al., [1995,eng] 50-2864
- Fabric signature of subglacial till deformation, Breidamerkjökull, Iceland. Benn, D.I., [1995,eng] 50-3863
- Interpretation of subglacially-deformed materials. Benn, D.I., et al., [1996,eng] 50-5583
- Permafrost foundation creep prediction from cone penetration tests. Ladanyi, B., et al., [1995,eng] 50-1825
- Response of a circular ice floe to ocean waves. Meylan, M.H., et al., [1996,eng] 50-5264
- Strain net and ice flow monitoring of Hells Gate ice shelf. Bondesan, A., et al., [1995,eng] 50-4392
- See [also]: Shear strain

Stratification

- Acoustic sounder measurements of the planetary boundary layer at Maitri, Antarctica. Naithani, J., et al., [1995,eng] 50-4208
- Anatomy of the Arctic Frontal Zone in the Greenland Sea. van Aken, H.M., et al., [1995,eng] 50-573
- Balloon sounding of arctic stratospheric chemistry. Kondo, Y., et al., [1990,eng] 50-5999
- Basal ice facies and their formation in the western Alps. Hubbard, B., et al., [1995,eng] 50-2805
- Boundary layer characteristics of the continental margin of the western Barents Sea. Thomsen, L., et al., [1994,eng] 50-1245
- Case study of turbulent parameters during the antarctic winter. Yagüe, C., et al., [1995,eng] 50-1339
- Chronology of Upper Pleistocene stratified slope-waste deposits in central Italy. Coltori, M., et al., [1996,eng] 50-6700
- Climate change in the recent evolution of a pro-glacial lake. Webster, J., et al., [1996,eng] 50-3704
- Cold bottom water in the southern Laptev Sea. Churru, V.N., et al., [1995,eng] 50-2076
- Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar. Zeng, X.X., et al., [1995,eng] 50-1804
- Conglomerate identification and mapping leads to development success in a mature Alaskan field. O'Sullivan, T.P., et al., [1991,eng] 50-1756
- Dense water formation on arctic shelves. Gawarkiewicz, G., et al., [1996,eng] 50-6671
- Determination of alpine treeline variations from soil charcoal sediments. Carcailliet, C., et al., [1996,eng] 50-4746
- Determination of the mineral composition of similar types of paleosols intercalated in loess sequences. Gerei, L., et al., [1995,eng] 50-1044
- Evaluating the deformation and strength properties of frozen ground using an acoustic method. Zykov, I.U.D., et al., [1995,rus] 50-2504
- Experimental study of freezing of binary solutions. Zampino, M.A., et al., [1991,eng] 50-1243
- Flow-finger continuity in serial thick-sections in a melting Sierran snowpack. McGurk, B.J., et al., [1995,eng] 50-2401
- Hydraulic fill ash storage design for the permafrost zone. Korotova, I.V., et al., [1995,eng] 50-1838
- Hydrochemical study of snow meltwater and snow cover. Suzuki, K., [1995,eng] 50-2404
- Ice-covered temperate lake limnology. Agbeti, M.D., et al., [1995,eng] 50-739
- Investigation of the general circulation of the Arctic Ocean using an isopycnal model. Holland, D.M., et al., [1996,eng] 50-3822
- Mesoscale-fine structure relationship in antarctic ocean currents. Shapiro, G.I., et al., [1994,eng] 50-866
- Microwave retrieval algorithm for remote sensing of precipitation. Weng, F., et al., [1992,eng] 50-3566
- Mineral composition of the fine-dispersed fractions of loess and soil processes developed in them. Chizhikova, N.P., et al., [1995,eng] 50-1042
- Noctilucent clouds and the thermal structure near the arctic mesopause in summer. Lübken, F.J., et al., [1996,eng] 50-5453
- Observation of snowfall and airflow over a low mountain barrier. Nakai, S., et al., [1995,eng] 50-341
- Outflow of Lena River water to the Laptev Sea. Golovin, P.N., et al., [1995,eng] 50-2075
- Paleoecological significance of Quaternary permafrost relics in arctic Canada. Murton, J.B., [1996,eng] 50-3645
- Physical and geochemical properties across the Atlantic/Pacific water mass front in the southern Canadian Basin. McLaughlin, F.A., et al., [1996,eng] 50-2845
- Phytoplankton seasonal bloom shift in Barents Sea ice. Strass, V.H., et al., [1996,eng] 50-6721
- Preconditioning the Greenland Sea for deep convection: ice formation and ice drift. Visbeck, M., et al., [1995,eng] 50-567
- Propagation of sound above a finite layer of snow. Nicolas, J., et al., [1985,eng] 50-3699

Stratigraphy

Stratigraphy

- Relation of snowpack chemistry to streamwater composition. Shanley, J.B., et al. [1995,eng] 50-2425
- Relict sorted patterned ground in Rostu, northernmost Sweden. Kling, J., [1996,eng] 50-5581
- Rocket flight cloud seeding during hail suppression experiments. Lacaux, J.P., et al. [1995,eng] 50-4971
- Role of atmospheric waves in the laminated structure of ozone profiles at high latitude. Teitelbaum, H., et al. [1996,eng] 50-5871
- Sea of Okhotsk near-freezing dichothermal layer variations. Yang, J.Y., et al. [1996,eng] 50-6219
- Sedimentary structures of cold-climate coastal dunes, eastern Hudson Bay, Canada. Ruz, M.H., et al. [1995,eng] 50-3862
- Sedimentation during needle ice growth in soil. Branson, J., et al. [1996,eng] 50-3646
- Stratospheric ozone layer above Spitsbergen in winter 1989. Neuber, R., et al. [1990,eng] 50-5975
- Temperature evolution of a chemically stratified lake. Spigel, R.H., et al. [1996,eng] 50-6333
- Thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. Björnson, H., et al. [1996,eng] 50-4888
- Thermal stratification effects near a vertical ice slab in cold water. Kukulka, D.J., et al. [1993,eng] 50-3361
- Three-layer model of flow under the ice cover in rivers. Debofskii, V.K., et al. [1995,eng] 50-352
- Toba eruption sulfates recorded in GISP2 ice core. Zielinski, G.A., et al. [1996,eng] 50-5288
- See [also]: Fire stratification; Snow stratigraphy
- Stratigraphy**
- 10-century comparison of prominent bipolar volcanic events in ice cores. Langway, C.C., Jr., et al. [1995,eng] 50-583
- 12,000 year radiocarbon date of deglaciation from the continental divide of northwestern Montana. Carrara, P.E., [1995,eng] 50-3299
- 20th-century glacial-marine sedimentation in Vitus Lake, Bering Glacier, Alaska, U.S.A. Molnia, B.F., et al. [1996,eng] 50-6262
- Accumulation rates of carbon in mires in Finland and implications for climate change. Tolonen, K., et al. [1995,eng] 50-6078
- Age of pre-late-Wisconsin glacial-estuarine sedimentation. Bristol Bay, Alaska. Kaufman, D.S., et al. [1996,eng] 50-4586
- Applications of freshwater diatoms to geographical research. Moser, K.A., et al. [1996,eng] 50-5013
- Atlantic Ocean sedimentary evidence for Pleistocene ice rafting. Robinson, S.G., et al. [1995,eng] 50-1110
- Basic characteristics and paleoclimatic evolution of Qarhan Salt Lake. Chen, K.Z., et al. [1986,chi] 50-1984
- Beardmore Glacier glacialic succession, Transantarctic Mountains. Webb, P.N., et al. [1996,eng] 50-6630
- Biogenic composition of ice-rafted debris in Atlantic Ocean bottom sediment. van Kreveld, S.A., et al. [1996,eng] 50-5219
- Biostratigraphic evidence of an Icelandic paleoclimatic oscillation. Rundgren, M., [1995,eng] 50-2017
- Boreal ecosystem development in the northwestern Alaska Range since 11,000 yr B.P. Hu, F.S., et al. [1996,eng] 50-4581
- Calorimetric determination of permafrost water-ice phase composition. Fortier, R., et al. [1996,eng] 50-4863
- Carboniferous siliceous rock and its relation to metallic sulfide deposits in northern Xinjiang. Yang, W.H., et al. [1993,chi] 50-2358
- Catastrophic drainage from ice-dammed glacial Lake Assiniboine. Wolfe, B., et al. [1995,eng] 50-4881
- Cenozoic deposition on the Svalbard continental shelf. Solheim, A., et al. [1996,eng] 50-5312
- Cenozoic erosion and sediment yield in the drainage area of the Storfjorden Fan. Hjelstuen, B.O., et al. [1996,eng] 50-5310
- Cenozoic shelf erosion of the Barents Sea margin. Fiedler, A., et al. [1996,eng] 50-5309
- Cenozoic uplift of Fennoscandia inferred from a study of the mid-Norwegian margin. Stuevold, L.M., et al. [1996,eng] 50-5324
- Century of accumulation and temperature changes in Dronning Maud Land, Antarctica. Isaksson, E., et al. [1996,eng] 50-4352
- Changes in the configuration of ice stream flow from the West Antarctic ice sheet. Jacobel, R.W., et al. [1996,eng] 50-4360
- Changes in the Late Cenozoic environment of the Gonghe Basin in Qinghai. Xu, S.Y., [1986,chi] 50-1983
- Changes in the lithology and pedology of tills from the Warta Glaciation in the Bełchatów mine. Baraniecka, M.D., et al. [1993,pol] 50-3653
- Characteristics of basal ice at Engabreen, northern Norway. Jansson, P., et al. [1996,eng] 50-6248
- Chemistry of salt minerals and their depositional environment in the Qaidam Basin. Dong, J.H., [1986,chi] 50-1988
- Chronology of Upper Pleistocene stratified slope-waste deposits in central Italy. Coltori, M., et al. [1996,eng] 50-6700
- Chronostratigraphy of Warta loesses and correlation with glacial deposits in Poland. Maruszczak, H., [1993,pol] 50-3664
- Climatic changes in Europe during the last glacial/interglacial transition. Walker, M.J.C., [1995,eng] 50-502
- Climatic implications of Norwegian Neoglaciation glacier maximum. Matthews, J.A., [1991,eng] 50-3306
- Climatic implications of ostracode deposits in Greenland Quaternary sediments. Brouwers, E.M., et al. [1991,eng] 50-2564
- Coastal Greenland Holocene sea level changes. Rasch, M., et al. [1995,eng] 50-5533
- Collected papers on the Quaternary in arid region Xinjiang. Xinjiang University, Xinjiang Geology and Mineral Resources Bureau, Xinjiang Branch Academy of Sciences, [1985,chi] 50-1995
- Comparison of tundra-steppe development in Beringia. Gitterman, R.E., et al. [1982,eng] 50-3371
- Composition and construction of late Pleistocene end moraines, Durango, Colorado. Johnson, M.D., et al. [1995,eng] 50-1859
- Correlation between Pleistocene involutions in English soil and Canadian thermokarst. Murton, J.B., et al. [1995,eng] 50-1803
- Correlation of glacial episodes in Poland and Scandinavia. Lindner, L., et al. [1995,eng] 50-2611
- Cretaceous and Tertiary deposits in southern Xizang. Zhou, Z.C., et al. [1992,chi] 50-1502
- Cretaceous/Tertiary marine stratigraphy and petroleum potential, Tarim Basin. Tang, T.F., et al. [1989,chi] 50-1847
- Danish lacustrine sediment evidence of paleoclimatological variability. Hammarlund, D., et al. [1996,eng] 50-5826
- Dating of Norwegian Pleistocene rock sediments. Balashov, I.U.A., et al. [1995,eng] 50-5534
- Dating of soil development on Sierra Nevada moraines. Bach, A.J., et al. [1996,eng] 50-4630
- Deglaciation of a Late Devensian British ice sheet. Merritt, J.W., et al. [1995,eng] 50-1858
- Depositional environment of the Laptev Sea shelf. Nürnberg, D., et al. [1995,eng] 50-940
- Depositional sequence of the Quaternary period in Xinjiang. Peng, X.L., [1985,chi] 50-2005
- Deposits from the Warta Glaciation against a background of Pleistocene deposits. Lisicki, S., [1993,pol] 50-3663
- Determination of total carbonate content in some representative loess-paleosol profiles. Gerei, L., et al. [1995,eng] 50-1043
- Development of the middle and lower course of the Weser River during the Late Pleistocene. Meinke, K., [1995,eng] 50-2746
- Developmental conditions of the Farnham bog, Québec. Lavoie, M., et al. [1995,fre] 50-4885
- Diatom distribution on Baffin Island, Canada. Wolfe, A.P., [1996,eng] 50-6514
- Discussion on the division and correlation of Holocene series in Xinjiang. Bai, M.X., [1985,chi] 50-2007
- Distribution of ice age sediments in northern Germany. Ehlers, J., [1990,ger] 50-1788
- Division and duration of ice age dating from global comparisons. Brunnacker, K., [1990,ger] 50-1784
- Drill cores from Qarhan Salt Lake. Yang, S.X., [1992,chi] 50-1488
- Early Holocene environment on Bjørnøya from lake sediments. Wohlfarth, B., et al. [1995,eng] 50-4721
- Early Pleistocene strata and the Quaternary lower boundary in northern Xinjiang. Lu, S.A., [1985,chi] 50-2006
- Early studies on stratified drift. Jopling, A.V., [1975,eng] 50-4807
- Early Weichselian interstadial sediments at Härnösand, Sweden. Garcia Ambrosiani, K., et al. [1992,eng] 50-2559
- East Beringia during Late Wisconsin time: a review of the biotic evidence. Matthews, J.V., Jr., [1982,eng] 50-3374
- Eastern Canadian Arctic at ca. 6 ka BP: a time of transition. Williams, K.M., et al. [1995,eng] 50-1450
- Ecological aspects of the development of flat-polygonal bogs of Yamal. Kanev, V.V., et al. [1996,eng] 50-6580
- European paleoclimatic variations inferred from Greenland ice core isotope analysis. Hafidason, H., et al. [1995,eng] 50-2528
- Evidence for Holocene seismic triggering of Arctic Ocean turbidites. Grantz, A., et al. [1996,eng] 50-6223
- Evidence of Holocene sea level rise from Nova Scotian bottom sediments. Scott, D.B., et al. [1995,eng] 50-4528
- Evidence of Pleistocene drainage of a Scandinavian ice lake. Bergsten, H., et al. [1992,eng] 50-2555
- Evolution of snow cover and avalanche activity in the Italian Alps during winter 1993-94. Lizzero, L., et al. [1994,ita] 50-1562
- Evolving description of a fractured carbonate reservoir: the Lisburne Field, Prudhoe Bay, Alaska. Missman, R.A., et al. [1991,eng] 50-1755
- Expanded record of Quaternary oceanographic change: Amerasia Arctic Ocean. Ishman, S.E., et al. [1996,eng] 50-3388
- Final stages in Laurentide ice sheet collapse, Hudson Strait. Andrews, J.T., et al. [1995,eng] 50-6556
- First appearance of Himalayas and its relation to global climatic events. Xu, Q.Q., [1992,chi] 50-1504
- Foraminiferal evidence of Younger Dryas age cooling on the British Columbia shelf. Patterson, R.T., et al. [1995,eng] 50-5039
- Forest changes in the Great Lakes region at 5-7 ka BP. Anderson, T.W., [1995,eng] 50-1456
- Fossil charophytes from the Qaidam Basin. Tang, L.H., et al. [1991,chi] 50-2032
- Four Scandinavian glaciations in the Vistula Gap of the South Polish Uplands. Potarzycki, W., et al. [1995,eng] 50-2612
- Geochemical evolution and paleoclimatology of a salt lake in the Qaidam Basin. Han, F.Q., et al. [1995,chi] 50-4126
- Geochemistry of volcanic ashes from Greenland Basin. Haase, K.M., et al. [1996,eng] 50-5267
- Geological map (1:25,000) of the SW part of Wedel Jarlsberg Land. Czerny, J., et al. [1993,eng] 50-2197
- Geological mapping of Svalbard tectonic fault zone. McCann, A.J., et al. [1996,eng] 50-4232
- Geological transect of the Brooks Range, Alaska. Kelley, J.S., et al. [1995,eng] 50-5198
- Geology and tectonic evolution of Germanialhalvøya, Spitsbergen. Piepjohn, K., et al. [1994,eng] 50-1577
- Geology of a Spitsbergen fault zone. Lamar, D.L., et al. [1995,eng] 50-4296
- Geology of the Red Mountain gold deposit in British Columbia. Greig, C.J., et al. [1994,eng] 50-84
- Glacial or non-glacial origin for the Bigganjarga tillite, Finnmark, northern Norway. Jensen, P.A., et al. [1996,eng] 50-4395
- Glacial processes, sediments, landforms, and stratigraphy at Myrdalsjøkulen. Krüger, J., [1994,eng] 50-166
- Glacially-fed North Sea Quaternary sedimentation. King, E.L., et al. [1996,eng] 50-4877
- Glacially-influenced Yakutaga Formation on Middleton I. Eyles, C.H., et al. [1990,eng] 50-934
- Glacimarine deposits in southwestern Sweden. Stevens, R.L., [1990,eng] 50-930
- Glacio-isostatic implications of Swedish Holocene shore displacement. Berglund, M., [1995,eng] 50-3367
- Glaciofluvial and glaciolacustrine sedimentation. Jopling, A.V., ed, et al. [1975,eng] 50-4806
- Glaciological studies on Nelson Island, South Shetland Islands, Antarctica. Ren, J.W., et al. [1995,eng] 50-460
- Global glacial chronologies and causes of glaciation. Calkin, P.E., et al. [1995,eng] 50-3582
- Global Younger Dryas? Peteet, D., [1995,eng] 50-504
- Goodwana stratigraphy in the Qinghai-Xizang Plateau. Yin, J.X., [1992,chi] 50-1503
- Gould Pond, Maine: late-glacial transitions from marine to upland environments. Anderson, R.S., et al. [1992,eng] 50-2561
- Great Qinghai-Xizang ice sheet. Han, T.L., [1991,chi] 50-2176
- Greenland and United Kingdom paleotemperatures comparisons from Greenland snow accumulation rates. Lowe, J.J., et al. [1995,eng] 50-1082
- Greenland ice core sediments correlated with oceanic sediments. Grönvold, K., et al. [1995,eng] 50-1251
- Gulf of Alaska paleoclimatological influence on marine ecology. Lagoe, M.B., et al. [1996,eng] 50-6625
- Holocene development of a debris slope in subarctic Québec, Canada. Marion, J., et al. [1995,eng] 50-2857
- Holocene solifluction at Okstundan, northern Norway: a reassessment. Worsley, P., [1993,eng] 50-829
- Ice rafting history from the Spitsbergen ice cap over the last 200 kyr. Lloyd, J.M., et al. [1996,eng] 50-5224
- Ice-rafted tephra sedimentation of the North Atlantic. Lacasse, C., et al. [1996,eng] 50-4140
- Ice-wedge formation in northern Asia during the Holocene. Vasilchuk, I.U.K., et al. [1996,eng] 50-6705
- Iceland paleoclimatology dynamics from volcanic ash in lacustrine deposits. Björck, S., et al. [1992,eng] 50-2547
- Identification of ice-rafted sediments in Atlantic Ocean bottom cores. Auffret, G.A., et al. [1996,eng] 50-5218
- Implication of glacial dispersal patterns for mineral exploration. McClenaghan, M.B., et al. [1996,eng] 50-6515
- Isotope analysis of Greenland ice sheet stratigraphic disturbances. Fuchs, A., et al. [1996,eng] 50-5461
- Isotopic analysis of snow on Asian glacier surfaces. Aizen, V.B., et al. [1996,eng] 50-5256
- Land form development and pedogenesis: the effects of the last glacial cycle in the forest of Fougères (Ille et Villaine, Brittany, France). Van Vliet-Lanoë, B., et al. [1995,fre] 50-2996
- Landform and sediment associations of dry-based glaciers in arid polar environments. Humphreys, K.A., et al. [1996,eng] 50-6577
- Last deglaciation of the Franz Victoria Trough, northern Barents Sea. Lubinski, D.J., et al. [1996,eng] 50-6535
- Late Cenozoic evolution of the western Barents Sea-Svalbard continental margin. Faleide, J.I., et al. [1996,eng] 50-5308
- Late Cenozoic geology and environmental evolution of the Qaidam Basin in Qinghai. [1986,chi] 50-1981
- Late Cenozoic history of the Scandinavian and Barents Sea ice sheets. Mangerud, J., et al. [1996,eng] 50-5305
- Late Cenozoic sedimentation and uplift history on the mid-Norwegian continental shelf. Henriksen, S., et al. [1996,eng] 50-5315
- Late glacial sedimentation and history of the Lake Nipigon Basin, Ontario. Lemoine, R.M., et al. [1995,eng] 50-4880
- Late Holocene glacier fluctuations in western Norway. Nesje, A., et al. [1991,eng] 50-3302
- Late Pleistocene deposits at Block Fen, Cambridgeshire, England. West, R.G., et al. [1995,eng] 50-6214
- Late Pleistocene environment of north China. Zheng, H.H., et al. [1991,chi] 50-1844
- Late Pleistocene sedimentary environment near Urumqi. Han, S.T., et al. [1985,chi] 50-1998
- Late Pleistocene soil formation on coastal lowlands of northern Yakutia. Gubin, S.V., [1995,eng] 50-963
- Late Pleistocene vegetation of eastern Beringia: pollen analysis of dated alluvium. Schweger, C.E., [1982,eng] 50-3373
- Late Pleistocene-Holocene diatom record and paleoenvironment of Bangong Lake, Western Tibet. Fan, H., et al. [1994,eng] 50-1532
- Late Quaternary environmental history of Bátorliget, N.E. Hungary. Willis, K.J., et al. [1995,eng] 50-2165
- Late Quaternary foraminiferal stratigraphy from western Svalbard. Lycke, A.K., et al. [1992,eng] 50-2557
- Late Quaternary glacial and climatic history of the Liddar Valley, Kashmir Himalaya. Kaul, M.N., [1994,eng] 50-5549

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- Late Quaternary glacial and environmental history of Kongseya, Svalbard. Ingólfsson, O., et al. [1995,eng] 50-4713
- Late Quaternary paleoceanography of the Eurasian Basin, Arctic Ocean. Cronin, T.M., et al. [1994,eng] 50-658
- Late Quaternary stratigraphy and glaciology in the Thule area, Northwest Greenland. Funder, S., ed. [1990,eng] 50-5169
- Late stage 5 glacio-isostatic sea in the St. Lawrence Valley, Canada and the United States. Occhietti, S., et al. [1996,eng] 50-4577
- Late Weichselian glacial maximum on Andøya, north Norway. Møller, J.J., et al. [1992,eng] 50-2546
- Late Weichselian to early Holocene sedimentation in eastern Svalbard. Møller, P., et al. [1995,eng] 50-4716
- Late Wisconsinan ice retreat from the Scotian Shelf. King, L.H., [1996,eng] 50-6533
- Late-glacial and early Holocene vegetation of Snowdonia. Ince, J., [1996,eng] 50-4254
- Lateglacial and Holocene variations of the Grey Glacier, an outlet of the South Patagonian icefield. Marden, C.J., [1993,eng] 50-3013
- Lithium and boron geochemistry of salt lakes in the Qaidam Basin. Zheng, X.Y., [1986,chi] 50-1992
- Little Ice Age evidence from a south-central North American ice core, U.S.A. Naftz, D.L., et al. [1996,eng] 50-4334
- Loess distribution, origin, and chronology. Pécsi, M., [1990,ger] 50-1794
- Loess layer and the paleoclimate of northern piedmont of Tian Shan. Zhang, H.Y., et al. [1985,chi] 50-2003
- Loess-paleosol dating method. Zhu, Z.Y., [1995,eng] 50-1050
- Magnetic analysis of glaciogenic sediment weathering. Walden, J., et al. [1995,eng] 50-6562
- Major paleohydrographic changes in alpine foreland during the Pliocene-Pleistocene. Petit, C., et al. [1996,eng] 50-6538
- Making an ice core. Kopaska-Merkel, D.C., [1995,eng] 50-1150
- Margin of the last Barents-Kara ice sheet at Markhida, northern Russia. Tveranger, J., et al. [1995,eng] 50-2014
- Marine record of deglaciation from the continental margin off Nova Scotia. Keigwin, L.D., et al. [1995,eng] 50-3001
- Mass movements in glaciomarine sediments on the Barents Sea continental slope. Kuvaas, B., [1996,eng] 50-5321
- Methodology of loess palynology. Zelikson, E.M., [1995,eng] 50-1049
- Methods for classifying apparently homogeneous loess sequences. Molnár, B., et al. [1995,eng] 50-1041
- Middle and Late Pleistocene evolution of the Bear Island Trough Mouth Fan. Laberg, J.S., et al. [1996,eng] 50-5322
- Monitoring Termination II at high latitude: anomalies in the planktic foraminiferal record. Bauch, H.A., [1996,eng] 50-5223
- Morainial bank facies in Ireland. McCabe, A.M., et al. [1995,eng] 50-921
- Morainial bank ground-line process during coastal Maine deglaciation. Hunter, L.E., et al. [1996,eng] 50-6532
- Myth of the classic hydrosere model of bog succession. Klinger, L.F., [1996,eng] 50-4331
- Near-shore Baltic ice lake deposits in Fakse Bugt, southeast Denmark. Bennike, O., et al. [1995,eng] 50-1798
- Neoglaciation and vegetation change in British Columbia. Clague, J.J., et al. [1996,eng] 50-4332
- New development in the study on Carboniferous biostratigraphy in northern Xinjiang. Liao, Z.T., et al. [1993,chi] 50-2356
- New paleontological evidence for continental drift in the Qinghai-Xizang Plateau. Wen, S.X., [1992,chi] 50-1506
- New radiocarbon dates for the Vedde ash and the Saksunarvatn ash from western Norway. Birks, H.H., et al. [1996,eng] 50-4576
- New regional mapping project in Vernon map area, British Columbia. Thompson, R.I., et al. [1994,eng] 50-85
- Nonglacial interval in Canadian Pleistocene sediments. Hicock, S.R., et al. [1995,eng] 50-1087
- North Sea lithostratigraphy related to glacial isostasy. Ekman, S.R.R., [1995,eng] 50-6560
- Norwegian Pleistocene crustal metamorphism. Ohta, Y., et al. [1995,eng] 50-5535
- Novel Pleistocene ice flow directions in Poland and Germany. Lagerlund, E., et al. [1995,eng] 50-509
- Numerical modelling of North Atlantic Quaternary sedimentation. Haupt, B.J., et al. [1995,eng] 50-750
- Ny Friesland Orogen, Spitsbergen. Harland, W.B., et al. [1992,eng] 50-5155
- On the definition of stratigraphical division boundaries in the Quaternary for the Scandinavian glaciated areas. Mojski, J.E., [1995,eng] 50-2610
- On the Quaternary paleoglaciation action of the northern Tianshan. Zhang, H.Y., [1985,chi] 50-2001
- On the sedimentary environment in the northern piedmont of the eastern Tian Shan Mountains. Han, S.T., [1985,chi] 50-1999
- On the sedimentary environment of the glaciofluvial terraces of the Tian Shan Mountains near Urumqi. Han, S.T., [1985,chi] 50-2002
- Origin of sylvites and salts in the Qaidam Basin. Yang, Q., [1986,chi] 50-1987
- Paleoclimate of the North Atlantic seaboard during the last glacial/interglacial transition. Lowe, J.J., et al. [1995,eng] 50-501
- Paleocryogenic analysis of loess-paleosol sequences. Velichko, A.A., et al. [1995,eng] 50-1036
- Paleoecological reconstruction of the Late Pleistocene, based on loess Malacofauna in Hungary. Krolopp, E., et al. [1995,eng] 50-1048
- Paleoecology of a cushion bog, southern Tierra del Fuego. Heusser, C.J., [1995,eng] 50-2726
- Paleoecological flora of Spitsbergen: implications for arcticotertiary climatostratigraphy. Manum, S.B., [1994,eng] 50-907
- Paleoceanographic import of Norwegian Sea sediment stratigraphy. Rasmussen, T.L., et al. [1996,eng] 50-5222
- Paleoclimate from diatom distribution in a marine core. Zhan, Y.F., [1989,chi] 50-6780
- Paleoclimatic changes and glacier variations in Colombia. Thouret, J.C., et al. [1996,eng] 50-6706
- Paleoclimatic implications of Norwegian postglacial avalanches. Blikra, L.H., et al. [1993,eng] 50-835
- Paleoclimatic import of gravel deposits on a Chinese plateau. Liu, T.S., et al. [1996,eng] 50-5098
- Paleoclimatic models of Chinese loess and paleosol sequences. Thompson, R., et al. [1995,eng] 50-2542
- Paleoclimatic significance of a new Arctic Ocean foraminiferal fauna. Mullen, M.W., et al. [1995,eng] 50-3349
- Paleoclimatological significance of Quaternary diatom lake deposits in Qinghai-Xizang (Tibet). Li, J.Y., et al. [1994,eng] 50-1536
- Paleoecological implications of Patagonian Quaternary pollen diagrams. Heusser, C.J., [1995,eng] 50-2164
- Paleoecological study of Pleistocene mountain vegetation patterns. Gregory, K.M., et al. [1996,eng] 50-5081
- Paleoecology of arctic lake sediment macrofossils. Birks, H.H., [1991,eng] 50-3305
- Paleoecology of Finnish lacustrine deposits. Sarnaja-Korjonen, K., [1995,eng] 50-4738
- Paleogeographic implications of ostracod fauna in Karakorum Mountain lacustrine deposits. Li, Y.F., et al. [1994,eng] 50-1537
- Paleogeography of Cenozoic lithofacies and their evolution in the Qaidam Basin. Yang, Z.L., [1986,chi] 50-1982
- Paleogeological events on Baffin Island, Labrador Sea. Fillon, R.H., et al. [1981,eng] 50-3621
- Paleomagnetic age constraints on New Zealand glacial deposits. Fitzsimons, S.J., et al. [1996,eng] 50-6576
- Paleomagnetic changes within the Brunhes Epoch in the Basaharc loess profile, Hungary. Balogh, J., [1995,eng] 50-1051
- Paleomagnetic constraints on sedimentation rates in the eastern Arctic Ocean. Schneider, D.A., et al. [1996,eng] 50-6707
- Paleomagnetism of Icelandic lava piles. Kristjánsson, L., et al. [1995,eng] 50-4948
- Paleozoic petroleum source rocks in Saskatchewan and Manitoba. Osadetz, K.G., et al. [1995,eng] 50-232
- Paleozoic stratigraphy of ophiolites and their tectonic setting in Xinjiang. Wu, H.R., et al. [1993,chi] 50-2361
- Pb-Zn-Au deposits in Carboniferous strata of northern Xinjiang. Yang, W.H., et al. [1993,chi] 50-2357
- Petroleum resources of the Mackenzie Delta and Beaufort Sea. Dixon, J., et al. [1994,fre] 50-3319
- Pleistocene altiplanation in northern Chile. Kött, A., et al. [1995,eng] 50-4947
- Pleistocene climatic changes in arctic marine atmospheres. Seidenkrantz, M.S., et al. [1996,eng] 50-5584
- Pleistocene foraminifera in Arctic Ocean piston cores. Evans, J.R., et al. [1995,eng] 50-3348
- Pleistocene glacial history of the Svalbard area. Hebbeln, D., [1992,eng] 50-2558
- Pleistocene glaciation in northwestern British Columbia. Spooner, I.S., et al. [1995,eng] 50-4526
- Pleistocene glaciomarine isostatic rebound, Puget Lowland, Washington. Dethier, D.P., et al. [1995,eng] 50-1832
- Pleistocene slope deposits related to the Saint-Maurice Rhythmites, St. Lawrence Valley, Québec. Hétu, B., et al. [1995,fre] 50-4883
- Pleistocene soil evolution in a Russian upland. Sycheva, S.A., [1995,eng] 50-2147
- Pleistocene stratigraphy in the Lappajärvi meteorite crater in Ostrobothnia, Finland. Salonen, V.P., et al. [1992,eng] 50-2556
- Pleistocene stratigraphy of the Athabasca River valley region, Rocky Mountains, Alberta. Levenson, V.M., et al. [1995,eng] 50-5037
- Plio-Pleistocene foraminiferal stratigraphy in North Greenland. Feyling-Hanssen, R.W., [1990,eng] 50-5171
- Plio-Pleistocene megacycles: record of climate and tectonics. Kukla, G., et al. [1996,eng] 50-5099
- Plio-Pleistocene stratigraphy and paleobotany of the Kap København Formation. Bennike, O., [1990,eng] 50-5170
- Pliocene record in the central Arctic Ocean. Clark, D.L., [1996,eng] 50-6626
- Pliocene sand ridges at the Barents Sea margin. Knutsen, S.M., et al. [1996,eng] 50-5314
- Polar ice stratigraphy from laser-light scattering: scattering from ice. Ram, M., et al. [1995,eng] 50-3098
- Pollen assemblages from a borehole in Dabsan Lake. Du, N.Q., et al. [1986,chi] 50-1986
- Pollen content of Pleistocene deposits in the St. Lawrence Estuary. Clet, M., et al. [1995,fre] 50-4884
- Possible influence of glacial eustasy on antarctic shelf stratigraphy. Bartek, L.R., et al. [1996,eng] 50-4823
- Post glacial emergence and the Tapes transgression, north-central Kola Peninsula, Russia. Snyder, J.A., et al. [1996,eng] 50-5829
- Post-glacial mass flow and associated deposits in paleovalleys of Greenland. Collinson, J.D., et al. [1989,eng] 50-5168
- Pre-Illinoian glacial stratigraphy in north-central Missouri. Rovey, C.W., III, et al. [1996,eng] 50-4585
- Precambrian glaciomarine sedimentation in East Greenland. Moncrieff, A.C.M., et al. [1994,eng] 50-935
- Preliminary results of ground ice studies in the Herschel Island area, Yukon coastal plain. Pollard, W.H., [1990,eng] 50-1622
- Preliminary stratigraphy from Lansing map area, Yukon Territory. Roots, C., et al. [1994,eng] 50-80
- Present and early Holocene foraminiferal distribution in eastern Svalbard. Hansen, A., et al. [1995,eng] 50-4718
- Primary division of Quaternary in Xinjiang. Yang, Z.X., et al. [1985,chi] 50-2004
- Principal mineral resources and their distribution on the Qinghai-Xizang Plateau. Xu, Z.Y., et al. [1991,chi] 50-2295
- Problems in paleogeography and stratigraphy of the cold Warta stage in Poland. Kiatkova, H., ed. [1993,pol] 50-3651
- Proceedings of the first symposium on the Qinghai-Xizang Plateau. China Society of Qinghai-Xizang Plateau Research. Symposium, 1st, Mar. 1990, [1992,chi] 50-1475
- Proceedings [1994,eng] 50-1531
- Profiles at Brus and Ruda (Lublin Polesie), and their significance for Mesopleistocene stratigraphy. Wojtanowicz, J., [1995,eng] 50-2615
- Quaternary eolian deposits at a salt lake in the Qaidam Basin. Wang, J.D., et al. [1986,chi] 50-1994
- Quaternary fluvio-morphological processes. Bibus, E., et al. [1995,eng] 50-2747
- Quaternary Fourier stratigraphy: orbital templates and Milankovitch anomalies. Berger, W.H., [1994,eng] 50-1066
- Quaternary geology and geomorphology of Mount Xixia Bangma region. Liu, D.S., et al. [1982,chi] 50-6602
- Quaternary geology and the last two glaciations in Alberta. Jackson, L.E., Jr., [1994,eng] 50-86
- Quaternary geology of the Buchans area, Newfoundland: implications for mineral exploration. Klassen, R.A., et al. [1996,eng] 50-6634
- Quaternary glacial in the Andes. Heine, K., [1995,eng] 50-4837
- Quaternary glacial transport in the Hudson Bay region. Parent, M., et al. [1995,eng] 50-4527
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Quaternary insects and their environments. Elias, S.A., [1994,eng] 50-2009
- Quaternary loess and stratigraphy in Inner Mongolia. Dong, G.R., et al. [1986,chi] 50-1991
- Quaternary of the loess plateau. Sun, J.Z., ed. et al. [1991,chi] 50-2010
- Quaternary processes in eastern China and international correlation. Yang, Z.G., et al. [1993,chi] 50-1843
- Quaternary sea level history in the Northwest Territories, Canada. Kerr, D.E., [1996,eng] 50-6553
- Quaternary stratigraphy of the buried valleys of the lower Red Deer River, Alberta, Canada. Evans, D.J.A., et al. [1995,eng] 50-1080
- Quaternary terraces and related deposits in the western Wind River Basin, Wyoming. Jaworowski, C., [1993,eng] 50-702
- Radiochronometry of the ice sheet in the Upper Pleistocene. Serebrianniy, L.R., [1972,rus] 50-539
- Radiolaria biostratigraphy of core S₁₁ in the area northwest of Antarctic Peninsula. Chen, W.B., [1989,chi] 50-6779
- Rapid isostatic rebound in southwestern Iceland at the end of the last glaciation. Ingólfsson, O., et al. [1995,eng] 50-1802
- Regional stratigraphy and lithology of the Carpathian loess deposits in Przemysł environs. Lanczont, M., [1995,eng] 50-2614
- Relative sea level in the area of Matane (Québec) from deglaciation to present day. Dionne, J.C., et al. [1995,fre] 50-5036
- Relevance of glacial bed debris to glacial mechanics. Gow, A.J., et al. [1996,eng] 50-6251
- Research on Tertiary palynology from the Qaidam Basin. Zhu, Z.H., et al. [1985,chi] 50-2033
- Reservoir potential of an upwelling deposit, Prudhoe Bay. Kupecz, J.A., [1995,eng] 50-6551
- Review of Late Cretaceous floras and climates of arctic Russia. Herman, A.B., [1994,eng] 50-902
- Review of multi-proxy data for the Younger Dryas in Atlantic Canada. Mayle, F.E., et al. [1995,eng] 50-4624
- Rhythmic sedimentation in Glacial Lake Hitchcock, Massachusetts-Connecticut. Ashley, G.M., [1975,eng] 50-4820
- Role of principles and methods in loess-paleosol investigations. Pécsi, M., [1995,eng] 50-1035
- Sedimentary environments associated with glacial Lake Trimmingham, Norfolk, UK. Hart, J.K., [1992,eng] 50-2554
- Sedimentary successions in Pleistocene ice-marginal lakes. Shaw, J., [1975,eng] 50-4819
- Sequence analysis of Canadian glaciolacustrine deposits. Martini, I.P., et al. [1995,eng] 50-1084
- Sequence types of Upper Quaternary deposits in the Kara Sea. Levitan, M.A., et al. [1995,eng] 50-3546
- Skógar Tephra, a Younger Dryas marker in North Iceland. Nordahl, H., et al. [1992,eng] 50-2548
- Solifluction in the Arctic and subarctic during the Holocene. Van Vliet-Lanoë, B., [1993,eng] 50-844
- Some geological problems regarding salt lakes on the Qinghai-Xizang Plateau. Zhang, P.X., [1986,chi] 50-1985
- Some late Pliocene and early Pleistocene pollen profiles from Poland. Suchlik, L., [1994,eng] 50-916
- Some paleomagnetic study results in the Kuntzei Lake region of the Qaidam Basin. An, Z.S., [1986,chi] 50-1993
- Some questions of the Pleistocene sedimentation of the Barents Sea shelf. Tarasov, G.A., [1993,eng] 50-2213

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- Stratified slope deposits: the stone-banked sheets and lobes model. Bertran, P., et al. [1995,eng] 50-4834
- Stratigraphic and structural setting of mineral deposits in British Columbia. Davies, A.G.S., et al. [1994,eng] 50-83
- Stratigraphic detection of Greenland ice sheet chemical changes. Wolff, E.W., et al. [1995,eng] 50-584
- Stratigraphic setting and paleogeography of the Warta Glaciation in northeastern Poland. Krupinski, K.M., et al. [1993,pl] 50-3661
- Stratigraphical position of kame deposits to the north of Bielsk Podlaski. Mycielska-Dowgiab, E., et al. [1995,eng] 50-2617
- Stratigraphy and palynology of boreal peat in French bogs. Juvigné, E., et al. [1995,fr] 50-4879
- Stratigraphy and physics of the Taylor Dome ice core. Fitzpatrick, J.J., [1994,eng] 50-1900
- Stratigraphy of redeposited fossils in Norwegian Pleistocene sediments. Vorren, T.O., et al. [1981,eng] 50-3625
- Stratigraphy of slope deposits and soils in the northeastern Great Basin and vicinity. Kieber, A., [1993,eng] 50-1681
- Stratigraphy of valley sediments of Polish river drainage basins. Superson, J., [1995,eng] 50-2616
- Stratigraphy of Yorkshire, England glacial deposits. Evans, D.J.A., et al. [1995,eng] 50-6213
- Structural pattern and tectonic history of the Laptev Sea region. Drachev, S.S., et al. [1995,eng] 50-2105
- Structure of cryogenic strata in the Arctic and the history of their development. Konishchev, V.N., [1990,ru] 50-1623
- Studies of clean and sediment-laden ice in the Laptev Sea. Eicken, H., et al. [1995,eng] 50-2071
- Studies on Holocene fluvial geomorphodynamics on the upper Oberweser. Thomas, J., [1993,ger] 50-2769
- Subsurface seismostratigraphic mapping at Anchorage. Schmoll, H.R., et al. [1986,eng] 50-483
- Sulfide occurrences in northwestern British Columbia. Gunning, M.H., et al. [1994,eng] 50-82
- Taku Glacier, southeast Alaska, U.S.A.: Late Holocene history of a tidewater glacier. Motyka, R.J., et al. [1996,eng] 50-4335
- Taxa in plant communities of the Mazovian Interglacial Age in Central Europe. Krupinski, K.M., [1995,eng] 50-2613
- Technique for high time resolution snowpack dating. Braaten, D.A., [1995,eng] 50-776
- Tectonic framework of the Teslin region, southern Yukon Territory. Gordey, S.P., et al. [1994,eng] 50-81
- Thermoluminescence ages of loess and associated sediments in central Nebraska, USA. Pye, K., et al. [1995,eng] 50-2166
- Thermoluminescence dating of Alaskan Pleistocene tephra. Berger, G.W., et al. [1996,eng] 50-5188
- Thickness of summer Arctic Ocean multiyear ice. Eicken, H., et al. [1995,eng] 50-2112
- Towed geophone system for use in snow-covered terrain. King, E.C., et al. [1996,eng] 50-6225
- Use of karst deposits in the French Jura for paleoclimatological analysis. Chaline, J., et al. [1995,eng] 50-1122
- Valley bottoms in the late Quaternary. Schirmer, W., [1995,eng] 50-2748
- Warta Glaciation (stage) within the Widawka drainage basin and the Bełchatów mine. Baraniecka, M.D., [1993,pl] 50-3652
- Warta Glaciation deposits within the non-glaciated zone in the Polesie Lubelskie. Wojtanowicz, J., [1993,pl] 50-3668
- Water fern residue as Chilean paleoclimatic indicator. Heusser, C.J., et al. [1996,eng] 50-5488
- Weddell Sea glaciomarine sedimentation variations. Crawford, K., et al. [1996,eng] 50-6261
- Weichselian chronostratigraphy and correlations. Möner, N.A., [1981,eng] 50-3624
- Weichselian glaciation in Svalbard before 15,000 B.P. Salvigsen, O., et al. [1981,eng] 50-3623
- West Siberian Quaternary stratigraphy. Arkhipov, S.A., et al. [1994,eng] 50-1210
- See [also]: Firn stratification; Snow stratigraphy
- Stratosphere**
- 1989 AASE temperature and wind measurements. Chan, K.R., et al. [1990,eng] 50-5980
- 2xCO₂ experiment with prescribed changes in sea surface temperature. Mahfouf, J.-F., et al. [1992,eng] 50-226
- Aerosols used as tracers for stratosphere-troposphere exchange in the Arctic. Foltescu, V.L., et al. [1995,eng] 50-777
- Airborne Arctic Stratospheric Expedition: prologue. Turco, R.P., et al. [1990,eng] 50-5973
- Airborne lidar observations in the wintertime arctic stratosphere: ozone. Browell, E.V., et al. [1990,eng] 50-5976
- Airborne measurements of stratospheric constituents over the Arctic in the winter of 1989. Mankin, W.G., et al. [1990,eng] 50-6006
- Airborne Polar Experiment. CNR Direzione Centrale Attività Scientifiche, [1994,eng] 50-6197
- Arctic and antarctic ozone depletion inferred from radiometric soundings. MacKenzie, I.A., et al. [1996,eng] 50-5768
- Arctic ozone depletion observed by UARS MLS during the 1994-95 winter. Manney, G.L., et al. [1996,eng] 50-3603
- Arctic stratospheric aerosol distribution. Brune, W.H., et al. [1990,eng] 50-6014
- ATLAS instrument characterization: accuracy of the AASE and AAOE nitrous oxide data sets. Loewenstein, M., et al. [1990,eng] 50-6008
- Atmospheric ozone, its depletion and antarctic ozone hole. Ghosh, S.N., et al. [1994,eng] 50-1687
- Atmospheric transport effects on arctic stratospheric chemistry. Yateau, J.H., et al. [1990,eng] 50-6020

- Balloon sounding of arctic stratospheric chemistry. Kondo, Y., et al. [1990,eng] 50-5999
- Behavior of tropospheric and stratospheric ozone in The Arctic and Antarctica. Taalas, P., [1993,eng] 50-4769
- Behaviour of stratospheric and upper tropospheric ozone in high latitudes. Kyrö, E., et al. [1994,eng] 50-3189
- Big freeze digs a deeper hole in ozone layer. Pearce, F., [1996,eng] 50-4204
- Brazilian network observations of the 1992 ozone hole. Kirchhoff, V.W.J.H., et al. [1993,eng] 50-562
- Calculations of ozone destruction during the 1988/89 arctic winter. McKenna, D.S., et al. [1990,eng] 50-6025
- CFCs dominance in the stratosphere. Russell, J.M., III, et al. [1996,eng] 50-3103
- Chemical reactions in the polar stratosphere. Seisel, S., [1996,ger] 50-4734
- Chlorine budget of the lower polar stratosphere. Shindell, D.T., et al. [1995,eng] 50-3091
- Chlorine monoxide in the antarctic spring vortex, pt.2. Shindell, D.T., et al. [1996,eng] 50-3018
- Comment on paper by Chipperfield et al. Schiller, C., et al. [1996,eng] 50-5462
- Condensation nuclei production in the arctic polar vortex. Wilson, J.C., et al. [1990,eng] 50-5983
- Decadal evolution of the antarctic ozone hole. Jiang, Y., et al. [1996,eng] 50-5253
- Denitrification mechanisms in the polar stratospheres. Toon, O.B., et al. [1990,eng] 50-6001
- Dynamical influences on the antarctic ozone hole. Harvey, M.W., et al. [1996,eng] 50-6648
- Effect of dynamical mixing in a simple model of the ozone hole. Edouard, S., et al. [1996,eng] 50-6332
- Effect of volcanic aerosols on ultraviolet radiation in Antarctica. Tsias, S.R., et al. [1996,eng] 50-3066
- Equilibrium constant for the reaction of ClO + O₂ ↔ ClOO₂. Demore, W.B., [1990,eng] 50-4732
- Estimating the energy contribution of precipitating electrons to total ozone. Osechkin, V.V., [1994,ru] 50-4105
- Evidence for arctic ozone depletion in late February and early March 1994. Manney, G.L., et al. [1995,eng] 50-4540
- Evolution of water vapor in the southern polar stratosphere. Lahoz, W.A., et al. [1996,eng] 50-5011
- Future chlorine-bromine loading and ozone depletion. Prather, M.J., et al. [1991,eng] 50-2787
- Global three-dimensional constituent fields derived from profile data. Douglass, A.R., et al. [1990,eng] 50-6018
- Ground-based aerosol measurements at Arrival Heights, Antarctica. Kreher, K., et al. [1996,eng] 50-6681
- HCl on stratospheric ice. Gertner, B.J., et al. [1996,eng] 50-4859
- Heterogeneous processes: laboratory, field, and modeling studies. Poole, L.R., et al. [1991,eng] 50-2784
- Impact of heterogeneous reactions on stratospheric chemistry of the Arctic. Douglass, A.R., et al. [1989,eng] 50-4708
- Impact of stratospheric flight on ozone and water vapor. Rind, D., et al. [1995,eng] 50-627
- Impact of stratospheric flight on ozone. Pitari, G., et al. [1995,eng] 50-557
- In situ measurements of BrO in the arctic stratosphere. Toohy, D.W., et al. [1990,eng] 50-6015
- In situ measurements of NO₂ in the Airborne Arctic Stratospheric Expedition. Carroll, M.A., et al. [1990,eng] 50-6011
- Infrared absorption coefficients of gaseous chlorine nitrate at 296 K. Tuazon, E.C., et al. [1989,eng] 50-4709
- Infrared measurement of arctic atmospheric chemical species. Wetzel, G., et al. [1995,eng] 50-2115
- Interpretation of nitric oxide profile observed in January 1992 over Kiruna. Kondo, Y., et al. [1996,eng] 50-6637
- Interpretation of OClO measurements. Sessler, J., et al. [1995,eng] 50-1521
- Kinetic measurements of the ClO + O₃ → ClOO + O₂ reaction. Stevens, P.S., et al. [1990,eng] 50-4727
- Lagrangian transport calculations using UARS data. Part II: ozone. Manney, G.L., et al. [1995,eng] 50-365
- Lidar observations of stratospheric temperature above McMurdo Station, Antarctica. Di Donfrancesco, G., et al. [1996,eng] 50-5605
- Lidar of Canadian arctic stratospheric ozone. Donovan, D.P., et al. [1995,eng] 50-3095
- Long-term arctic stratospheric temperature variations. Nagatani, R.M., et al. [1990,eng] 50-5978
- Loss of ozone in the arctic vortex for the winter of 1989. Salawitch, R.J., et al. [1990,eng] 50-6027
- Measurements of total reactive nitrogen during the Airborne Arctic Stratospheric Expedition. Kawa, S.R., et al. [1990,eng] 50-6009
- Mending the ozone hole: science, technology, and policy. Mahajan, A., et al. [1995,eng] 50-2523
- Meteor-3/TOMS observations of the 1994 ozone hole. Herman, J.R., et al. [1995,eng] 50-3092
- Meteorological conditions of the antarctic ozone hole. Cisneros, J.M., [1990,spa] 50-5527
- Mid stratospheric ozone minima in polar regions. Austin, J., et al. [1995,eng] 50-1181
- Missing chemistry of reactive nitrogen in the upper stratospheric polar winter. Kawa, S.R., et al. [1995,eng] 50-1189
- Model of wintertime stratospheric circulation. Eluszkiewicz, J., et al. [1995,eng] 50-1330
- Model study of polar stratospheric clouds, pt.1. De Ruider, A., et al. [1996,eng] 50-6638

- Model study of polar stratospheric clouds, pt.2. Tie, X.X., et al. [1996,eng] 50-6639
- N₂O as a dynamical tracer in the arctic vortex. Loewenstein, M., et al. [1990,eng] 50-6007
- Near UV polar stratospheric absorption measurements. Wahner, A., et al. [1990,eng] 50-6012
- Nitric oxide measurements in the arctic winter stratosphere. Fahey, D.W., et al. [1990,eng] 50-6010
- Objective determination of the polar vortex using Ertel's potential vorticity. Nash, E.R., et al. [1996,eng] 50-5452
- Observation of a new absorption band of HOBr and its atmospheric implications. Barnes, R.J., et al. [1996,eng] 50-3968
- Observational studies of the role of polar regions in mid-latitude ozone loss. Jones, R.L., et al. [1995,eng] 50-3094
- Observations of polar stratospheric clouds in the arctic winter 1989 at 79°N. Krüger, B.C., [1990,eng] 50-5984
- On the age of stratospheric air and inorganic chlorine and bromine release. Daniel, J.S., et al. [1996,eng] 50-6331
- On the polar stratospheric cloud formation potential of the northern stratosphere. Pawson, S., et al. [1995,eng] 50-2116
- Ozone and NO₂ observations within the antarctic polar vortex. Gil, M., et al. [1990,spa] 50-5526
- Ozone and temperature trends. Stolarski, R., et al. [1991,eng] 50-2783
- Ozone hole and the 1995 Nobel Prize in chemistry. Berger, A., [1996,fr] 50-5924
- Ozone hole. Hall, T.M., [1996,eng] 50-4995
- Ozone in northern Europe and in Antarctica, 1987-1990. Taalas, P., [1992,eng] 50-5272
- Ozone layer: the road not taken. Prather, M., et al. [1996,eng] 50-5214
- Photochemistry of chlorine dioxide in ice. Pursell, C.J., et al. [1995,eng] 50-154
- Photodissociation of condensed films of chlorine dioxide. Lanzendorf, E.J., et al. [1996,eng] 50-6679
- Photometry of Mt. Pinatubo aerosols at Spitsbergen. Beyerle, G., et al. [1995,eng] 50-1183
- Planetary waves in total ozone and their relation to antarctic ozone depletion. Bodeker, G.E., et al. [1995,eng] 50-4541
- Polar Ozone and Aerosol Measurement instrument. Glatum, W., et al. [1996,eng] 50-5765
- Polar stratospheric clouds observed by lidar at McMurdo Station during the 1993 winter. Adriani, A., et al. [1994,eng] 50-4239
- Polar stratospheric radiation absorption measurements, pt.2. Schiller, C., et al. [1990,eng] 50-6013
- Polar stratospheric radiation absorption measurements, pt.3. Wahner, A., et al. [1990,eng] 50-6016
- Polar vortex edge definition from stratospheric lidar data. Dameris, M., et al. [1995,eng] 50-346
- POST: Polar Stratospheric Telescope. Bely, P.Y., et al. [1995,eng] 50-2527
- Preliminary results from POAM II: stratospheric ozone at high northern latitudes. Randall, C.E., et al. [1995,eng] 50-1213
- Pressure cutoff effects on polar stratospheric chemistry. Cerniglia, M.C., et al. [1995,eng] 50-588
- Pressure dependence of the reaction between ClO and OClO at 226K. Parr, A.D., et al. [1990,eng] 50-4733
- Radiative forcing of climate. Ramaswamy, V., et al. [1991,eng] 50-2786
- Radiative heating rates during the Airborne Arctic Stratospheric Expedition. Rosenfeld, J.E., et al. [1990,eng] 50-5981
- Radiometry of Scandinavian atmospheric chemistry. Wehr, T., et al. [1995,eng] 50-1332
- Reconstruction of O₃ and N₂O fields from ER-2, DC-8, and balloon observations. Lait, L.R., et al. [1990,eng] 50-6017
- Record low ozone at McMurdo Station in spring of 1993. Johnson, B.J., et al. [1994,eng] 50-4238
- Record low Siberian ozone levels. Bojkov, R.D., et al. [1995,eng] 50-1212
- Recovery of ozone in the lower stratosphere at the South Pole during the spring of 1994. Hofmann, D.J., et al. [1995,eng] 50-1182
- Redistribution of reactive odd nitrogen in the lower arctic stratosphere. Hübler, G., et al. [1990,eng] 50-6002
- Rocket-borne spectrometry of arctic stratospheric chemistry. Schlager, H., et al. [1990,eng] 50-5998
- Role of atmospheric waves in the laminated structure of ozone profiles at high latitude. Teitelbaum, H., et al. [1996,eng] 50-5871
- Satellite monitoring of antarctic stratosphere volcanic aerosols. Saxena, V.K., et al. [1995,eng] 50-591
- Satellite observation of arctic ozone depletion. Müller, R., et al. [1996,eng] 50-6636
- Satellite sounding of arctic stratospheric temperatures. Claud, C., et al. [1996,eng] 50-3445
- Simulated effects of dichlorine hexoxide on stratospheric ozone depletion. Parthiban, S., et al. [1995,eng] 50-2019
- Simulating the evolution of the chemical composition of the 1988/89 winter vortex. Jones, R.L., et al. [1990,eng] 50-6024
- Simulation of arctic stratospheric response to aerosol perturbations. Zhao, X.P., et al. [1996,eng] 50-6680
- Simulation of polar stratospheric aerosols. Kaye, J.A., et al. [1990,eng] 50-6019
- Small-scale waves encountered during AASE. Bacmeister, J.T., et al. [1990,eng] 50-5982
- Sounding of nitric acid aerosol in the arctic stratosphere. Schlager, H., et al. [1990,eng] 50-4724
- Sounding of polar stratospheric ozone annual variations. Gruzdev, A.N., et al. [1995,eng] 50-4748

Stream flow

Stress concentration

- Spectrometry of atmospheric emission over the South Pole. Van Allen, R., et al. [1996,eng] 50-4328
- Spectroscopic study of heavy ozone isotopes in the arctic atmosphere. Meier, A., et al. [1996,eng] 50-3550
- Spectroscopy of antarctic stratospheric ozone variations. pt.2. Cheng, D.J., et al. [1996,eng] 50-4349
- Spectroscopy of stratospheric trace gases at the South Pole. De Zafra, R.L., et al. [1994,eng] 50-4240
- Stratospheric constituent trends from ER-2 profile data. Schoeberl, M.R., et al. [1990,eng] 50-6005
- Stratospheric ozone layer above Spitsbergen in winter 1989. Neuber, R., et al. [1990,eng] 50-5975
- Stratospheric polar vortex and sub-vortex: fluid dynamics and midlatitude ozone loss. McIntyre, M.E., [1995,eng] 50-5229
- Stratospheric processes: observations and interpretation. Brune, W.H., et al. [1991,eng] 50-2785
- Stratospheric temperatures during AASE: results from STRATAN. Rood, R.B., et al. [1990,eng] 50-5979
- Stratospheric temperatures during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990,eng] 50-5977
- Stratospheric water vapor annual cycle. Mote, P.W., [1995,eng] 50-626
- Sulfuric acid monohydrate: formation and heterogeneous chemistry in the stratosphere. Zhang, R.Y., et al. [1995,eng] 50-635
- Total hydrogen budget in the arctic winter stratosphere. Engel, A., et al. [1996,eng] 50-5767
- Total ozone during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990,eng] 50-5974
- Tropospheric dehydration by subvisible cirrus clouds. Jensen, E.J., et al. [1996,eng] 50-5287
- Ultraviolet inhibition of carbon fixation in phytoplankton. Boucher, N., et al. [1994,eng] 50-4245
- Unusual PSCs observed by lidar in Antarctica. Stefanutti, L., et al. [1995,eng] 50-753
- Variability of the arctic stratospheric ozone. Heese, B., [1996,ger] 50-3802
- Volcanic ash variations in the antarctic stratosphere. Anderson, J., et al. [1996,eng] 50-5613
- Volcanic stratospheric loading derived from Greenland ice core measurements. Zielinski, G.A., [1995,eng] 50-1331
- Zonal and meridional components of atmospheric heat exchange in the northern European basin. Martimianova, E.S., [1992,rus] 50-1273
- Stream flow**
- Application of a surface hydrology scheme to a watershed. Leung, L.R., et al. [1996,eng] 50-6056
- Arctic river database. Global Runoff Data Centre (GRDC), Koblenz, Germany, [1995,eng] 50-6592
- Changes in trace element speciation in Kola north surface waters during snow melt. Rodushkin, I.V., et al. [1995,eng] 50-4080
- Changing drainage patterns within South Cascade Glacier, Washington, USA, 1964-1992. Fountain, A.G., et al. [1995,eng] 50-2431
- Channel erosion during flooding of alpine streams. Becht, M., [1996,ger] 50-5251
- Climate change in mountain environments. Willis, I., et al. [1995,eng] 50-1522
- Climate change, hydrology, and channel morphology of the Gunnison River. Parker, R.S., et al. [1992,eng] 50-3032
- Climatic trends in the Colorado-Big Thompson Project area. U.S. Bureau of Reclamation. Denver Office, Denver, CO, [1994,eng] 50-5007
- Discharge and fluvial sediment transport in a semi-arid Andean catchment. Barsch, D., et al. [1994,eng] 50-1544
- Dynamic monitoring information system for snow of remote sensing imagery. Liu, Z.K., et al. [1990,chi] 50-6657
- Dynamic research by remote sensing on typical region in the Yellow River Valley. Tian, G.L., ed. [1990,chi] 50-6649
- Effects of avalanche snow redistribution on summer streamflow variations. De Sclay, F.A., [1996,eng] 50-4333
- Effects of forest clearcutting on snow hydrology. Meng, F.R., et al. [1995,eng] 50-768
- Estimation of mean velocity for flow under ice cover. Teal, M.J., et al. [1995,eng] 50-4040
- Factors controlling suspended sediment transport in Himalayan glacier meltwaters. Hasnain, S.I., [1996,eng] 50-5688
- Fluvial morphology and streamflow on Deception Island, Antarctica. Inbar, M., [1995,eng] 50-4190
- Forecast of spring snowmelt runoff in the upper Yellow River. Lan, Y.C., et al. [1990,chi] 50-6652
- Glaciers: a water resource. Meier, M.F., et al. [1995,eng] 50-3801
- Hydrochemical processes during snowmelt in a subalpine watershed, Colorado, USA. Peters, N.E., et al. [1995,eng] 50-2423
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995,eng] 50-3125
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995,eng] 50-6043
- Hydrological processes contributing to nitrogen leaching. Lepistö, A., [1996,eng] 50-5599
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995,eng] 50-3123
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995,eng] 50-6046
- Information system for snowmelt runoff in Qinghai Province. Feng, X.Z., et al. [1990,chi] 50-6655
- International gaging station established on the Alsek River. Deschu, N., et al. [1995,eng] 50-3752
- Isotopic tracing of nitrate sources in snowmelt runoff. Kendall, C., et al. [1995,eng] 50-2426
- ISWRIS information system for runoff forecasting of the upper Yellow River. Wang, J., et al. [1990,chi] 50-6656
- Links between proglacial stream sediments and glacier motion. Willis, I.C., et al. [1996,eng] 50-6091
- Modeling measurement errors when estimating snow water equivalent. Carroll, S.S., [1995,eng] 50-2605
- Nitrate transport in snowmelt in the Green Mountains, northern Vermont. Daly, D.M., [1995,eng] 50-3128
- Nitrogen deposition and release in alpine watersheds, Loch Vale, Colorado, USA. Campbell, D.H., et al. [1995,eng] 50-2416
- NOAA satellite snow cover monitoring of the upper Yellow River. Chen, X.Z., et al. [1990,chi] 50-6653
- Organic carbon variations in stream waters during snowmelt. Boyer, E.W., et al. [1995,eng] 50-2422
- Physical properties governing groundwater flow in a glacial till catchment. Hinton, M.J., et al. [1993,eng] 50-3693
- Preliminary considerations for runoff modelling in GCMS. Veraghy, D., [1994,eng] 50-5701
- Processes controlling the chemistry of two snowmelt-dominated streams in the Rocky Mountains. Campbell, D.H., et al. [1995,eng] 50-2545
- Satellite snow monitoring and runoff forecasting for the Yellow River. Zeng, Q.Z., [1990,chi] 50-6650
- Simulation of streamflow in a macroscale watershed using general circulation model data. Kite, G.W., et al. [1994,eng] 50-3820
- Snow and water chemistry of a headwater alpine basin, Urumqi River, Tian Shan, China. Liu, F.J., et al. [1995,eng] 50-2413
- Snow survey bulletin & water supply forecast, March 1, 1996. Yukon Territory. Canada. Indian and Northern Affairs. Water Resources Division, [1996,eng] 50-3710
- Snow survey bulletin & water supply forecast, May 1, 1996. Yukon Territory. Canada. Indian and Northern Affairs. Water Resources Division, [1996,eng] 50-4612
- Snowmelt and slush torrents in Swedish Lapland. Gude, M., et al. [1995,eng] 50-4188
- Snowmelt hydrologic model of the Upper Sheep Creek watershed. Jackson, T.H.R., [1994,eng] 50-701
- Snowmelt induced chemical changes in seven streams in the Sierra Nevada, California. Melack, J.M., et al. [1995,eng] 50-2414
- Stable isotopes as hydrologic tracers in South Cascade Glacier. Vaughn, B.H., [1994,eng] 50-5546
- Stream flow hydrographic separation during watershed snowmelt. Sucker, J.K., [1995,eng] 50-2419
- Streamflow generation in a headwater basin on the Precambrian Shield. Wells, C., et al. [1991,eng] 50-3680
- Studies on prediction method of snowmelt runoff in the upper reaches of the Yellow River. Song, Q., [1990,chi] 50-6654
- Surface water chemistry in alpine watersheds. Stottmeyer, R., et al. [1995,eng] 50-2424
- Temperature measurements in the margin of ice stream B, 1993-1994. Harrison, W., et al. [1994,eng] 50-1889
- Tien Shan: trends of changes in the geocryological conditions. Gorbunov, A.P., et al. [1996,rus] 50-6841
- Use of remotely sensed data in the hydrological modelling of the upper Columbia watershed. Kite, G.W., [1996,eng] 50-5538
- Water resources data for Alaska, water year 1994. Bigelow, B.B., et al. [1995,eng] 50-2169
- Winter low-flow balance of the semiarid White River, Nebraska and South Dakota. Ferrick, M.G., et al. [1995,eng] 50-1074
- Winter-spring snow cover distribution in the upper Yellow River. Chen, X.Z., et al. [1990,chi] 50-6651
- See also:* River flow; Runoff
- Strems**
- Decline of fauna in small streams in the Swedish mountain range. Olofsson, E., et al. [1995,eng] 50-4078
- Dynamics of dissolved and particulate carbon in an arctic stream. Oswood, M.W., et al. [1996,eng] 50-4851
- Hydraulic geometry of the supraglacial stream Ragnarbreen, Spitsbergen. Kostrzewski, A., et al. [1989,pol] 50-2893
- Ice velocities near a relic flow feature on Siple Dome. Jacobel, R.W., et al. [1994,eng] 50-1891
- Inexpensive water collectors for study of surface water acidification during snowmelt. Gaskin, G.J., et al. [1995,eng] 50-1569
- Internal layer folding patterns from radar studies of ice streams B and C. Jacobel, R.W., et al. [1994,eng] 50-1892
- Land-water interactions: the influence of terrestrial diversity on aquatic ecosystems. Kling, G.W., [1995,eng] 50-3906
- Logging effects on an aquatic ecosystem on Vancouver Island. Hetherington, E.D., [1996,eng] 50-4070
- Microfaunal response to fertilization of an arctic tundra stream. Rublee, P.A., et al. [1995,eng] 50-870
- Outflow from the glacial river of the Werenskiöld Glacier and from Fuglebekken. Leszkiewicz, J., et al. [1989,pol] 50-2921
- Pesticide degradation in an arctic lake and watershed. Falconer, R.L.M., et al. [1995,eng] 50-1131
- Preventing the pollution of indigenous streams during open pit placer mining. Tsygankov, A.V., et al. [1990,rus] 50-1604
- Progress in ice-stream basal modeling. Alley, R.B., [1994,eng] 50-1890
- Seasonal variations of stream water chemistry in Spitsbergen. Potschin, M., et al. [1994,ger] 50-1587
- Streamwater quality variations in a Colorado alpine environment. Caine, N., [1995,eng] 50-4189
- See also:* Rock streams
- Streets**
- Prewetting salt with liquid calcium chloride for ice control on urban streets. Dunn, W., et al. [1995,eng] 50-3118
- Relation of traffic to climate and road icing in downtown Sapporo. Matsuzawa, M., et al. [1995,jpn] 50-6791
- Strength**
- Machine for breaking up hard materials. Liubinskiĭ, G.B., et al. [1992,rus] 50-1938
- Underground fuel tanks for Alaska. Freas, G.C., [1991,eng] 50-4226
- See also:* Bearing strength; Concrete strength; Flexural strength; Frozen ground strength; Frozen rock strength; Ice cover strength; Ice strength; Impact strength; Shear strength; Snow strength; Soil strength; Tensile properties; Ultimate strength
- Stress concentration**
- 10 meter scale (macro-crack): scale effects on the fracturing of sea ice. Dempsey, J.P., et al. [1995,eng] 50-6298
- Algorithm modeling stress gradients in grounded glaciers. Blatter, H., [1995,eng] 50-454
- Alleviating the effects of frost action on gas distribution and regulator station piping. Arnold, J.M., et al. [1985,eng] 50-4363
- Analytical modeling of glacier dynamics. Bahr, D.B., [1996,eng] 50-5023
- Bubble formation experiments in snow densification. Ishii, S., et al. [1995,eng] 50-3248
- Centrifuge modeling and numerical simulation of ice scour. Yang, Q.S., et al. [1996,eng] 50-5936
- Crack nucleation in saline ice with interacting inhomogeneities. Wu, M.S., et al. [1995,eng] 50-1142
- Deformation of ice under low stresses. Sego, D.C., et al. [1982,eng] 50-3787
- Dynamic impact between a viscoelastic ice floe and a rigid structure. Morland, L.W., [1996,eng] 50-3824
- Dynamic testing of frozen soil sample with an exploding wire system. Fyfe, I.M., [1968,eng] 50-2029
- Effect of size on distributed damage and fracture of sea ice. Bažant, Z.P., et al. [1995,eng] 50-6278
- Ejection velocity of ice impact fragments. Arakawa, M., et al. [1995,eng] 50-2153
- Failure of columnar saline ice under biaxial compression. Schulson, E.M., et al. [1995,eng] 50-2119
- Field experiments on snow avalanche mechanics. Schweizer, J., et al. [1995,eng] 50-1056
- Fracture in the compression of a brittle material—columnar grained ice. Wu, H.C., et al. [1974,eng] 50-3788
- Full depth testing of frost susceptible soils. Rice, D.C., [1974,eng] 50-4401
- Glacial quarrying: a simple theoretical model. Hallet, B., [1996,eng] 50-6233
- Hindsight on river ice jam stability. Beltaos, S., [1996,eng] 50-6425
- Ice microcracking due to grain boundary sliding. Elvin, A.A., et al. [1996,eng] 50-4185
- Impact of subglacial groundwater flow on moraine formation. Boulton, G.S., et al. [1995,eng] 50-2129
- Interpretation of in situ borehole ice strength measurement tests. Masterson, D.M., [1996,eng] 50-5049
- Method to calculate pack ice driving forces. Evgin, E., et al. [1995,eng] 50-1283
- Nucleation of microcracks in ice cubes compressed equally on all boundaries. Weiss, J., et al. [1996,eng] 50-5867
- Off-ridge and rift-zone paleostresses in northwest Iceland. Gudmundsson, A., et al. [1996,eng] 50-6207
- Oilwell casing downdrag from subsidence at Prudhoe Bay, Nair, K., et al. [1971,eng] 50-4196
- On the estimation of frost loads. Rajani, B., et al. [1996,eng] 50-6751
- On the ice-ocean response to wind forcing. Omstedt, A., et al. [1996,eng] 50-6666
- Pack ice stresses and their relationship to regional deformation. Richter-Menge, J.A., et al. [1995,eng] 50-6287
- Photoviscoelastic modeling of the creep of frozen soil. Zhao, X.S., et al. [1996,eng] 50-6743
- Post-yield strength of icebreaking ship structural members. Desrochers, C.G., et al. [1995,eng] 50-877
- Recent advances in ice interaction and force estimation processes for vertical structures. Arunachalam, A.V.M., [1995,eng] 50-197
- Resilient modulus of cohesive soils and the effect of freeze-thaw. Lee, W.J., et al. [1995,eng] 50-578
- SIMI (Sea Ice Mechanics Initiative) panel on the 1cm-1m scale. Schulson, E.M., et al. [1995,eng] 50-6299
- Strength and yield criteria of frozen soil. Ma, W., et al. [1995,eng] 50-5478
- Stress interaction between multiple crevasses in glacier ice. Sas-solas, C., et al. [1996,eng] 50-5464
- Stresses in sea ice in the neighboring force interaction zone. Nikitin, V.A., et al. [1995,eng] 50-5522
- Structure of internal stresses in the uncompacted ice cover. Sukhorukov, K.K., [1995,eng] 50-193
- Triaxial experiments on iceberg and glacier ice. Gagnon, R.E., et al. [1995,eng] 50-1874
- Two methods for the determination of lateral stress in sand. Hatanaka, M., et al. [1995,eng] 50-1180
- Uniaxial constant compressive stress creep tests on sea ice. Sinha, N.K., et al. [1995,eng] 50-3000

Stress relaxation

- Variation of local pressures during ice-structure interaction. Johnston, M., [1994,eng] 50-376

Stress relaxation
See [also]: Relaxation (mechanics)

Stress strain diagrams

- Ductile-to-brittle transition of compressed ice. Schulson, E.M., et al. [1995,eng] 50-2157
Failure of columnar saline ice under biaxial compression. Schulson, E.M., et al. [1995,eng] 50-2119
Mechanical properties of materials at low temperatures. Wigley, D.A., [1968,eng] 50-6049
Mechanistic design of asphalt concrete pavements in cold regions. Vinson, T.S., et al. [1996,eng] 50-6191
Multiaxial creep of saline ice. Golubov, A.I., et al. [1990,eng] 50-102
Strength and viscosity of ice. Zaretskii, I.U.K., et al. [1996,eng] 50-6825
Strength characteristics of frozen sandy soil. Wu, Z.W., et al. [1995,eng] 50-4518
Uniaxial constant compressive stress creep tests on sea ice. Sinha, N.K., et al. [1995,eng] 50-3000

Stresses

- Determination of the ice strength for calculation of the ice load. Bekker, A.T., et al. [1996,eng] 50-4462
Experimental studies of frost heave in soils subjected to external stress. Lavrov, S.A., et al. [1996,eng] 50-6814
Manual for freezing soil heave stress testing unit. Martin, R.T., [1974,eng] 50-4265
Snow behaviour under compaction for the production of ice. Gaméda, S., et al. [1996,eng] 50-4047
See [also]: Cold stress; Shear stress; Strength; Tensile properties; Thermal stresses

Striations

- Bedrock surface weathering on Finnish fjell summits. McCarroll, D., et al. [1996,eng] 50-5825
Dynamics of the last glaciation in eastern Svalbard. Salvigsen, O., et al. [1995,eng] 50-4714
Glacial or non-glacial origin for the Bigganjarga tillite, Finnmark, northern Norway. Jensen, P.A., et al. [1996,eng] 50-4395
Ice-flow indications of complex Alaskan deglaciation events. Syverston, K.M., [1995,eng] 50-1801
Iceberg furrows as paleowind indicators in Lake Ojibway. Veilleux, J.J., et al. [1996,eng] 50-2498
Implication of glacial dispersal patterns for mineral exploration. McClenaghan, M.B., et al. [1996,eng] 50-6515
Past glaciation and sea levels on Bjørnøya, Svalbard. Salvigsen, O., et al. [1995,eng] 50-4720
Postglacial microbiological weathering of granite roches moutonnées. André, M.F., [1995,eng] 50-4832
Quaternary glacial transport in the Hudson Bay region. Parent, M., et al. [1995,eng] 50-4527
Sequence of glacial ice flows in Abitibi-Timiskaming. Veilleux, J.J., et al. [1996,eng] 50-2499
Stria distribution and subglacial processes in the Tianshan Mountains. Cui, Z.J., et al. [1995,eng] 50-4520
See [also]: Ice scoring

Structural analysis

- Anatomy of tropical alpine plants. Carlquist, S., [1994,eng] 50-3049
Arctic fungi classification and structural analysis. Currah, R.S., et al. [1996,eng] 50-4264
Arctic plant chloroplast adaptation to low temperatures. Miroslavov, E.A., et al. [1996,eng] 50-6756
Arctic research vessel preliminary design report. University of Alaska. Institute of Marine Science. [1994,eng] 50-5437
Arctic tanker structural requirement evaluation. Final report. McCallum, J.S., et al. [1995,eng] 50-4124
Classification uncertainties within foraminifera species in McMurdo Sound, Antarctica. Bowser, S.S., et al. [1995,eng] 50-3345
Clonal diversity in an arctic sedge. Jonsson, B.O., et al. [1996,eng] 50-6076
Concrete/reinforcing steel bond strength of low-temperature concrete. Schroeder, H.P., et al. [1996,eng] 50-4757
Crystal structure of dichlorodifluoromethane. Pridmore, R.W., et al. [1996,eng] 50-4695
Design of ice booms. Foltyn, E.P., et al. [1996,eng] 50-6068
Effects of plant cellular tissue structure on freezing tolerance. Fujikawa, S., et al. [1996,eng] 50-5675
Electron microscopy of frozen pea leaf cellular microstructure. Kaneko, Y., et al. [1996,eng] 50-5252
Enzymatic and morphological variations in arctic grasses. Aiken, S.G., et al. [1995,eng] 50-1068
Field observations of sun crust formation in Hokkaido, Japan. Ozeki, T., et al. [1996,eng] 50-5500
Flow-finger continuity in serial thick-sections in a melting Sierran snowpack. McGurk, B.J., et al. [1995,eng] 50-2401
Freezing characteristics of rigid plant tissues. Rajashekar, C.B., et al. [1996,eng] 50-6554
Functional significance of inflorescence pubescence in tropical alpine species of *Puya*. Müller, G.A., [1994,eng] 50-3053
Hallmarks in Switzerland: left movers, right movers, and false hooks. Houze, R.A., Jr., et al. [1993,eng] 50-1444
Hydrochemical indicators of subglacial drainage system structure. Tranter, M., et al. [1996,eng] 50-6086
Inland ice and nunataks, Queen Maud Land. Swithinbank, C., [1959,eng] 50-6202
Investigation and repair of a terra cotta dome in a cold climate. Ogle, R., et al. [1995,eng] 50-1978

- Magnetic resonance imaging of frozen plant tissues. Gamble, G.R., [1994,eng] 50-3360
Mathematical model of spray ice island creep. Thiel, D.T., et al. [1991,eng] 50-1720
Morphological and physiological radiation in páramo *Draba*. Phusch, W.A., [1994,eng] 50-3051
Nitsoniocladius in the Cretaceous Arctic: new species and biological insights. Spicer, R.A., et al. [1996,eng] 50-6541
Northumberland Strait bridge: analysis techniques and results. Ghali, A., et al. [1996,eng] 50-5046
Objective determination of the polar vortex using Ertel's potential vorticity. Nash, E.R., et al. [1996,eng] 50-5452
Oceanic methane hydrates: a "frontier" gas resource. Max, M.D., et al. [1996,eng] 50-4799
Paleoclimatological import of Himalayan tree palynological samples. Nakagawa, T., et al. [1996,eng] 50-4745
Pelagic bryozoan from Antarctica. Peck, L.S., et al. [1995,eng] 50-1827
Phenotypic plasticity in leaves of four species of arctic *Festuca* (Poaceae). Ramesar-Fortner, N.S., et al. [1995,eng] 50-3301
Post-yield strength of icebreaking ship structural members. DesRochers, C.G., et al. [1995,eng] 50-877
Products of subglacial volcanic eruptions under different ice thicknesses. Smellie, J.L., et al. [1994,eng] 50-2993
Revision of structural classifications of some arctic and alpine herb species. Chmielewski, J.G., [1995,eng] 50-873
Rotatable shortwave curtain antenna operable at very high wind speeds. Bruger, P., et al. [1996,eng] 50-6621
Seasonal frost mounds of arctic beaches, Tuktoyaktuk Peninsula, Northwest Territories. Campeau, S., et al. [1995,eng] 50-4882
Sediment-based carbon nutrition in tropical alpine *Isotria*. Keeley, J.E., et al. [1994,eng] 50-3052
Specifying fracture toughness ranks high in line pipe selection. Kiefner, J.F., et al. [1995,eng] 50-4397
Structural failure of the *Titanic*. Garzke, W.H., Jr., et al. [1994,eng] 50-5177
Tardigrades of the Taimyr peninsula with descriptions of two new species. Biserov, V.I., [1996,eng] 50-5294
Tree leaf cell response to cold acclimation. Rajashekar, C.B., et al. [1996,eng] 50-6555
Structural changes
Functional significance of inflorescence pubescence in tropical alpine species of *Puya*. Müller, G.A., [1994,eng] 50-3053
Study of concrete bridges exposed to deicing salts. Novokshchenov, V., [1989,eng] 50-4225
Structures
Forecasting the thermal regime of thin-walled moored structures under Arctic conditions. Shkola, A.V., et al. [1992,eng] 50-757
Structural ice control: review of existing methods. Tuthill, A.M., [1995,eng] 50-393
See [also]: Buildings; Concrete structures; Floating structures; Hydraulic structures; Inflatable structures; Offshore structures; Pile structures; Steel structures; Subsurface structures; Superstructures; Surface structure; Underground facilities; Under-snow facilities; Wooden structures

Studs

See [also]: Tires

Styrofoam

See [also]: Cellular plastics

Subarctic landscapes

- Accumulation rates of carbon in mires in Finland and implications for climate change. Tolonen, K., et al. [1995,eng] 50-6078
Accuracy of SPOT digital elevation model and derivatives: utility for Alaska's North Slope. Sasowsky, K.C., et al. [1992,eng] 50-1448
Biota of the western Siberian Subarctic as an indicator of the ecological-geochemical situation in the region. Savchenko, N.V., [1994,eng] 50-298
Boreal forest catchments: research sites for global change at high latitudes. Slaughter, C.W., et al. [1995,eng] 50-767
Damming James Bay: I. Potential impacts on coastal climate and the water balance. Rouse, W.R., et al. [1992,eng] 50-5030
Damming James Bay: II. Impacts on coastal marshes. Price, J.S., et al. [1992,eng] 50-5031
Description of Kolyma River landscapes and soils. Smith, C.A.S., et al. [1995,eng] 50-4698
Diatom, chrysophyte and protozoan distributions along a latitudinal transect in Fennoscandia. Pienitz, R., et al. [1995,eng] 50-4741
Early Weichselian interstadial land biotas at Thule, northwest Greenland. Bennike, O., et al. [1992,eng] 50-2553
Effects of enhanced UV-B radiation on the growth of dwarf shrubs in a subarctic heathland. Johanson, U., et al. [1995,eng] 50-3618
Effects of smelter emissions on pine tree frost hardness. Sutinen, M.L., et al. [1996,eng] 50-4309
Effects of understorey alder on forest soil fertility. Wurtz, T.L., [1995,eng] 50-1090
Energy partitioning at treeline forest and tundra sites and its sensitivity to climate change. Laffeur, P.M., et al. [1995,eng] 50-600
Environmental protection measures for the West Siberian Arctic and Subarctic. Chistov, S.V., [1991,eng] 50-1298
Extreme fire seasons in the forests of Evenkia. Ivanova, G.A., [1995,eng] 50-4700

Subglacial drainage

- Field guide to the Churchill region, Manitoba. Dredge, L.A., [1992,eng] 50-3910
Geological specifics in the natural dynamics of the subarctic cryolithozone. Oberman, N.G., [1996,eng] 50-6850
Growth response of mosses to simulated subarctic environmental change. Potter, J.A., et al. [1995,eng] 50-3860
Holocene development of a debris slope in subarctic Québec, Canada. Marion, J., et al. [1995,eng] 50-2857
How to make a palsa: a field experiment on permafrost formation. Seppälä, M., [1995,eng] 50-874
Icelandic turf-banked terrace geomorphology. Douglas, T.D., et al. [1996,eng] 50-5498
Initial assessment of multi-scale measures of CO₂ and H₂O flux in the Siberian taiga. Hollinger, D.Y., et al. [1995,eng] 50-3810
Initial phase of postfire regeneration in two lichen woodlands of northern Québec. Sirois, L., [1995,eng] 50-2158
Isotope analysis of variable subarctic plant nutrient access. Michelsen, A., et al. [1996,eng] 50-5772
Late Holocene record of aeolian and fire activity in northern Québec, Canada. Filion, L., et al. [1991,eng] 50-3304
Late Quaternary vegetation variations in western Beringia. Anderson, P.M., et al. [1996,eng] 50-4341
Late-glacial palynology of the Myrtaceae of southern Chile. Zhou, M.M., et al. [1996,eng] 50-4744
Leaf extract allelopathic effects on arctic graminoids. Michelsen, A., et al. [1995,eng] 50-1091
Microsporogenesis of the Siberian larch in western Siberia. Zapol'yare. Rozhdestvenskii, I.U.F., et al. [1995,eng] 50-3966
Model of effects of global warming of water balance of subarctic forest ecosystems. Kellomäki, S., et al. [1996,eng] 50-4750
Myth of the classic hydrosere model of bog succession. Klinger, L.F., [1996,eng] 50-4331
Natural vegetation complexes of the Northern Dvina River floodplain. Velkov, N.V., [1995,eng] 50-4699
Paleoecological study of fire-induced lake water acidity variations. Korhola, A., et al. [1996,eng] 50-5020
Paleoecology of Swedish bogs. Segerström, U., et al. [1996,eng] 50-4373
Permafrost soil thawing after forest fires. Swanson, D.K., [1996,eng] 50-5497
Plant communities of the Bol'shoi Chyryk River Valley, Barguzinskij Range, East Siberia. Chytrý, M., et al. [1995,eng] 50-4950
Pleistocene paleosol soil development in northwest Alaska. Höfle, C., et al. [1996,eng] 50-6517
Protalus formation mechanisms in Norwegian sediments. Shakesby, R.A., et al. [1995,eng] 50-3328
Recent advance of the arctic treeline along the eastern coast of Hudson Bay. Lesco-Sinclair, K., et al. [1995,eng] 50-3041
Recent white spruce dynamics at the subarctic alpine treeline of north-western Canada. Szeicz, J.M., et al. [1995,eng] 50-3036
Responses of arctic polar desert plant litter chemistry to climatic changes. Robinson, C.H., et al. [1995,eng] 50-5100
Seasonal and annual dynamics of frozen ground in the central highland of Iceland. Thórhallsdóttir, T.E., [1996,eng] 50-5499
Sedimentary structures of cold-climate coastal dunes, eastern Hudson Bay, Canada. Ruz, M.H., et al. [1995,eng] 50-3862
Simulation of streamflow in a macroscale watershed using general circulation model data. Kite, G.W., et al. [1994,eng] 50-3820
Soil geomorphology on Alaskan permafrost terrain. Swanson, D.K., [1996,eng] 50-6518
Spruce succession, disturbance, and geomorphology on the Tanana River floodplain, Alaska. Mann, D.H., et al. [1995,eng] 50-2159
Stability of coenopopulations of rose root steeplecrop in the subarctic Urals. Frolov, I.U.M., et al. [1994,eng] 50-264
Taimyr Peninsula vegetation response to climatic changes. Koshkarova, V.L., [1995,eng] 50-4701
Thermal environments of arctic soil organisms during winter. Coulson, S.J., et al. [1995,eng] 50-2811
Tree-ring dating of extreme water level events at Lake Bienville, subarctic Québec, Canada. Lepage, H., et al. [1996,eng] 50-4339
Trichloroacetic acid in conifer needles and arboreal lichens in forest environments. Juuti, S., et al. [1996,eng] 50-4206
Vegetation chronosequence near Exit Glacier, Kenai Fjords National Park, Alaska. U.S.A. Helm, D.J., et al. [1995,eng] 50-3325
Vegetational history of western Alaska during the Wisconsin glacial interval and the Holocene. Ager, T.A., [1982,eng] 50-3372
White spruce light rings in northwestern Canada. Szeicz, J.M., [1996,eng] 50-5492
See [also]: Subpolar regions

Subglacial caves

- Supraglacial sediment accretion in Icelandic glaciers. Näslund, J.O., et al. [1996,eng] 50-4904

Subglacial drainage

- Basal ice facies and their formation in the western Alps. Hubbard, B., et al. [1995,eng] 50-2805
Basal water pressure as indicator of subglacial drainage patterns. Stone, D.B., et al. [1996,eng] 50-6090
Changing drainage patterns within South Cascade Glacier, Washington, USA, 1964-1992. Fountain, A.G., et al. [1995,eng] 50-2431

Subglacial navigation

Subgrade maintenance

- Characteristics of basal ice at Engabreen, northern Norway. Jansson, P., et al. [1996,eng] 50-6248
- Comments on the use of chemically based mixing models in glacier hydrology. Sharp, M., et al. [1995,eng] 50-447
- Comparison of subglacial and extra-glacial weathering. Axtmann, E.V., et al. [1995,eng] 50-2436
- Concertina eskers, Briarjökull, Iceland: an indicator of surge-type glacier behavior. Knudsen, O., [1995,eng] 50-1407
- Depositional sequences in glaciolacustrine deltas. Gustavson, T.C., et al. [1975,eng] 50-4818
- Dissolution kinetics, subglacial pathways and solute content of alpine meltwater. Collins, D.N., [1995,eng] 50-6045
- Dissolution kinetics, subglacial pathways and solute content of meltwater. Collins, D.N., [1995,eng] 50-3124
- Driving stress, hydraulic head and landform genesis at the southeastern Burroughs Glacier. Gaffield, S.G., et al. [1995,eng] 50-3740
- Energy—water—mass balance and hydrological discharge. Kang, E.S., [1994,eng] 50-5576
- Englacial drainage influence on sediment transport pathways. Kirkbride, M., et al. [1996,eng] 50-6255
- Erosion by water flowing under ice. Tietze, W., [1961,ger] 50-5747
- Erosion rates and sediment yields of glaciers. Bogen, J., [1996,eng] 50-6239
- Eskers: an essay of bibliographic review. Levasseur, D., [1995,fre] 50-5042
- Fabric and structure in glaciofluvial gravels. Rust, B.R., [1975,eng] 50-4816
- Factors controlling suspended sediment transport in Himalayan glacier meltwaters. Hasnain, S.I., [1996,eng] 50-5688
- Formation of De Geer moraines deposited subglacially, central Québec. Beaudry, L.M., et al. [1995,eng] 50-5035
- Glacial dynamics, material transfer and sedimentation in Spitsbergen. Sollied, J.L., et al. [1994,eng] 50-1585
- Glacier river water study in Austre Okstindbreen Basin. Theakstone, W.H., et al. [1994,eng] 50-5700
- Glaciofluvial and glaciolacustrine sedimentation. Jopling, A.V., et al. [1975,eng] 50-4806
- Groundwater flow beneath ice sheets: part I—large scale patterns. Boulton, G.S., et al. [1995,eng] 50-2128
- History and drainage of large ice-dammed lakes along the Laurentide ice sheet. Teller, J.T., [1995,eng] 50-503
- Hydrochemical indicators of subglacial drainage system structure. Tranter, M., et al. [1996,eng] 50-6086
- Hydrology of a polythermal glacier, Erikbreen, northern Spitsbergen. Vane, G., et al. [1995,eng] 50-3150
- Hydrology of glaciers. Menzies, J., [1995,eng] 50-3586
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995,eng] 50-3123
- Hydrometeorological relationships in a glacierized catchment in the Canadian high Arctic. Wolfe, P.M., et al. [1995,eng] 50-6046
- Iceland glacier drainage and sandar formation. Heim, D., [1992,ger] 50-364
- Impact of glaciation on the groundwater regime of northwest Europe. Boulton, G.S., et al. [1996,eng] 50-5326
- Impact of subglacial geothermal activity on glacier meltwater quality. Lawler, D.M., et al. [1996,eng] 50-6087
- Impact of subglacial groundwater flow on moraine formation. Boulton, G.S., et al. [1995,eng] 50-2129
- Implications of glacial hydrology and flow for subglacial drainage dynamics. Raymond, C.F., et al. [1995,eng] 50-451
- Integrated approach to modelling hydrology and water quality in glacierized catchments. Richards, K.S., et al. [1996,eng] 50-6083
- Interaction between subglacial sediment and meltwater. Collins, D.N., [1996,eng] 50-6265
- Internal drainage of the Werenskiöld and Torell glaciers, 1988. Řehák, J., et al. [1989,cze] 50-2920
- Interpretation of faults in glaciofluvial sediments. McDonald, B.C., et al. [1975,eng] 50-4810
- Interpretation of hydrochemical evidence for meltwater routing at a high arctic glacier. Hodgkins, R., et al. [1995,eng] 50-2432
- Interpretation of subglacially-deformed materials. Benn, D.J., et al. [1996,eng] 50-5583
- Inventory of Antarctic sub-glacial lakes. Siegert, M.J., et al. [1996,eng] 50-6415
- Isotopic and ionic variations in glacier river water during three contrasting ablation seasons. Theakstone, W.H., et al. [1996,eng] 50-6085
- Lake Vostok beneath the antarctic ice sheet—a Russian research proposal. Kaminuma, K., [1995,jpn] 50-3498
- Late Quaternary subaqueous outwash deposits near Ottawa, Canada. Rust, B.R., et al. [1975,eng] 50-4813
- Late Wisconsinan outwash in southeastern British Columbia. Clague, J.J., [1975,eng] 50-4815
- Links between proglacial stream sediments and glacier motion. Willis, I.C., et al. [1996,eng] 50-6091
- Lumped-element model for subglacial transport of solute and suspended sediment. Clarke, G.K.C., [1996,eng] 50-6254
- Meltwater drainage patterns from alpine glaciers. Collins, D.N., [1995,eng] 50-2430
- Microbiological activity in thermoglacial karst springs, South Spitsbergen. Lauritzen, S.E., et al. [1995,eng] 50-1403
- Moraine formation from subglacial frozen sedimentation. Krüger, J., [1996,eng] 50-5830
- Nature of esker sedimentation. Banerjee, I., et al. [1975,eng] 50-4811
- Numerical landscapes: static, kinematic and dynamic process-form relations. Richards, K., et al. [1995,eng] 50-4153
- Occurrence of an algal bloom under arctic pack ice. Gradinger, R., [1996,eng] 50-4159
- Ocean bottom trenching by an Icelandic glacier. Björnsson, H., [1996,eng] 50-6252
- On the glaciology of Edgeøya and Barentsøya, Svalbard. Dowdeswell, J.A., et al. [1995,eng] 50-4712
- Pleistocene glacial lake sedimentology, Scotland. Benn, D.J., [1996,eng] 50-5827
- Possible consequences of glacially induced groundwater flow. Forsberg, C.F., [1996,eng] 50-5325
- Proglacial fluvial and lacustrine environments. Church, M., et al. [1975,eng] 50-4808
- Progress in ice-stream basal modeling. Alley, R.B., [1994,eng] 50-1890
- Role of sediment transport in the mechanics of jökulhlaups. Fowler, A.C., et al. [1996,eng] 50-6269
- Runoff modeling of a debris-covered glacier in Nepal. Rana, B., et al. [1996,eng] 50-5509
- Sampling-rate effects on the properties of dye breakthrough curves from glaciers. Nienow, P.W., et al. [1996,eng] 50-4903
- Seasonal variations in arctic glacier sediment transport. Hodgkins, R., [1996,eng] 50-6253
- Sediment transport in glacial meltwater streams. Østrem, G., [1975,eng] 50-4809
- Sedimentary successions in Pleistocene ice-marginal lakes. Shaw, J., [1975,eng] 50-4819
- Sedimentation and physical limnology in proglacial Malaspina Lake, southeastern Alaska. Gustavson, T.C., [1975,eng] 50-4817
- Sedimentology of the Brampton esker in Ontario. Saunderson, H.C., [1975,eng] 50-4812
- Sediments and landforms of modern proglacial terrestrial environments. Maizels, J., [1995,eng] 50-3592
- Seismic investigation of glacial tunnel channels. Pugin, A., et al. [1996,eng] 50-6257
- Simulation of runoff processes of a continental mountain glacier in the Tian Shan, China. Kang, E.S., et al. [1995,eng] 50-2439
- Stability of water flow in glaciers. Szilder, K., et al. [1996,eng] 50-6436
- Stable isotopes as hydrologic tracers in South Cascade Glacier. Vaughn, B.H., [1994,eng] 50-5546
- Statistical evaluation of glacier boreholes as indicators of basal drainage systems. Smart, C.C., [1996,eng] 50-6089
- Subglacial hydrology of a Swiss glacier. Hubbard, B.P., et al. [1995,eng] 50-1878
- Subglacial ice accretion in an Alaskan glacier. Strasser, J.C., et al. [1996,eng] 50-6250
- Subglacial lake burst variations in Iceland. Gudmundsson, M.T., et al. [1995,eng] 50-449
- Subglacial meltwater composition sampled through boreholes. Lamb, H.R., et al. [1995,eng] 50-2433
- Subpermafrost groundwater, western Svalbard. Haldorsen, S., et al. [1994,eng] 50-5697
- Supraglacial sediment accretion in Icelandic glaciers. Näslund, J.O., et al. [1996,eng] 50-4904
- Suspended sediment weathering in alpine glacial meltwater. Brown, G.H., et al. [1996,eng] 50-6088
- Towards a hydrological model for computerized ice-sheet simulations. Alley, R.B., [1996,eng] 50-6092
- Tracer experiments to determine subglacial pressurized flow in Storglaciären. Kohler, J., [1995,eng] 50-445
- Tracer study of glacial drainage variations in Switzerland. Nienow, P., et al. [1996,eng] 50-5580
- Transit time of meltwaters in alpine glaciers. Collins, D.N., [1995,eng] 50-2429
- Tunnel valley genesis. Cofaigh, C.O., [1996,eng] 50-5012
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- Measuring ocean parameters at extremes of temperature. Neal, G.W., et al. [1994,eng] 50-5180
- Multipath navigation in the Arctic: a feasibility test. Deffenbaugh, M., et al. [1995,eng] 50-6308
- SARA, an autonomous underwater vehicle for researches in Antarctica. Papalia, B., et al. [1994,eng] 50-5181
- Submersible ROBY is tested in Antarctica. Bono, R., et al. [1994,eng] 50-5182
- Subglacial observations**
- Autonomous underwater vehicle "Typhlonus" for under-ice exploration. Ageev, M.D., [1996,eng] 50-5910
- AUV operations in the Arctic. Bellingham, J.G., et al. [1995,eng] 50-6307
- Basal water pressure as indicator of subglacial drainage patterns. Stone, D.B., et al. [1996,eng] 50-6090
- Borehole video analysis of subglacial flow and structure. Harper, J.T., et al. [1995,eng] 50-1100
- Buoys in the Arctic study heat exchange. Honjo, S.S., et al. [1996,eng] 50-6334
- Construction of the Okhotsk frozen-sea observation tower. Sato, Y., et al. [1996,jpn] 50-5873
- Coupling and propagation of elastic waves in arctic pack ice. Jarvis, S.M., et al. [1994,eng] 50-5178
- Daily vertical migration of antarctic copepods beneath the ice. Tseitlin, V.B., et al. [1995,eng] 50-3607
- Deforming bed conditions on the Dänischer Wohld Peninsula, northern Germany. Hart, J.K., et al. [1996,eng] 50-6536
- Distribution of under-ice and ice phytoplankton in Lake Baykal. Zavoruev, V.V., et al. [1995,rus] 50-4106
- Effects of pack ice on Weddell Sea plankton distribution. Kaufmann, R.S., et al. [1995,eng] 50-6674
- Glimpse beneath the ice. Plueddemann, A.J., [1996,eng] 50-3837
- Guide to polar diving. Jenkins, W.T., [1976,eng] 50-55
- Helicopter-borne alpine glacier surveys using short pulse radar. Arcone, S.A., et al. [1992,eng] 50-1211
- High performance fiber optic hydrophones in the arctic environment. Yurek, A.M., et al. [1995,eng] 50-5174
- Ice-mounted acoustic element localization system. Sotirin, B.J., et al. [1994,eng] 50-5174
- Influence of glaciation on the basin temperature regime. Johansen, H., et al. [1996,eng] 50-5328
- Inter-annual variability in marine coastal antarctic bacterioplankton. Delille, D., et al. [1996,eng] 50-4006
- Inventory of Antarctic sub-glacial lakes. Siegert, M.J., et al. [1996,eng] 50-6415
- Isotope composition of the ice and subglacial geology near the Allan Hills. Faure, G., et al. [1993,eng] 50-6319
- Lake Vostok beneath the antarctic ice sheet—a Russian research proposal. Kaminuma, K., [1995,jpn] 50-3498
- Lobal interactions and rheologic superposition in subglacial till near Bradville, Ontario, Canada. Hicock, S.R., [1992,eng] 50-2550
- Measurement of seismo-acoustic ocean-bottom properties in the high Arctic. Dooso, S.E., et al. [1995,eng] 50-1837
- Measurements of the underside topography of sea ice by moored subsea sonar. Melling, H., et al. [1995,eng] 50-160
- Measuring ocean parameters at extremes of temperature. Neal, G.W., et al. [1994,eng] 50-5180
- Microprocessor based ice-radar system for surface profiling. Jacobel, R.W., et al. [1992,eng] 50-59
- Nuclear submarines and oceanography in the Arctic. DeLaca, T., et al. [1996,eng] 50-3931
- Numerical simulation of river ice processes. Shen, H.T., et al. [1995,eng] 50-355
- Observations of anomalous oceanic crust in the Canada Basin, Arctic Ocean. Jackson, H.R., et al. [1995,eng] 50-410
- Occurrence of an algal bloom under arctic pack ice. Gradinger, R., [1996,eng] 50-4159
- Physical limnological processes under ice. Kenney, B.C., [1996,eng] 50-6578
- Radar investigations of firn structures and crevasses. Glover, J.M., et al. [1992,eng] 50-58
- SARA, an autonomous underwater vehicle for researches in Antarctica. Papalia, B., et al. [1994,eng] 50-5181
- Seafloor-tethered sub-ice vertical acoustic array. Stevenson, J.M., et al. [1994,eng] 50-5173
- Seismic reflection results from an ice island over the arctic continental shelf. Cox, T.P., et al. [1990,eng] 50-3763
- Statistical parameters influencing mapping of subglacial topography. Herzfeld, U.C., et al. [1993,eng] 50-1033
- Submersible remote controlled vehicles for glacier-ocean-sediment study. Dowdeswell, J.A., et al. [1996,eng] 50-4902
- Submersible ROBY is tested in Antarctica. Bono, R., et al. [1994,eng] 50-5182
- Thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. Björnsson, H., et al. [1996,eng] 50-4888
- Tholeitic-alkalic transition at subglacial volcanoes, Tuya region, British Columbia, Canada. Moore, J.G., et al. [1995,eng] 50-3012
- Three-layer model of flow under the ice cover in rivers. Debofskii, V.K., et al. [1995,eng] 50-352
- Tidally forced under-ice Ekman layers observed by an acoustic Doppler current profiler. Marsden, R.F., et al. [1995,eng] 50-5933
- Till genesis through shear diffusion. Charbonneau, R., et al. [1995,eng] 50-3364
- Underwater explosions beneath ice. Tanglis, E., et al. [1989,eng] 50-3836
- Water pressure and basal sliding on Storglaciären, northern Sweden. Jansson, P., [1995,eng] 50-446
- West Antarctic ice sheet removal of subglacial volcanic artefacts. Behrendt, J.C., et al. [1995,eng] 50-2530
- Subgrade maintenance**
- Air convection embankments for roadway construction in permafrost zones. Goering, D.J., [1996,eng] 50-6107
- Amine freezing point depressant for soil stabilization. Hemstreet, D.A., et al. [1996,eng] 50-6144
- Bituminous surface treatment (BST) of northern highways. MacLeod, D.R., et al. [1996,eng] 50-6184
- Case study of insulated pavement in Jackman, Maine. Kestler, M.A., et al. [1995,eng] 50-1155
- Evaluation of geocomposite edge drain on sand subgrade. Raymond, G.P., et al. [1996,eng] 50-5662
- Frost action in subgrade soils—a field/laboratory study. Hoffman, G.L., [1979,eng] 50-4616
- Full depth testing of frost susceptible soils. Final report. Rice, D.C., [1982,eng] 50-1689
- Open graded base to reduce thaw weakening in flexible pavements. Kestler, M.A., [1996,eng] 50-6179
- Pavement design applying allowable frost heave. Saarelainen, S., [1996,eng] 50-6180
- Railway on permafrost in Siberia. Gravesen, H., et al. [1995,eng] 50-2960

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- Strengthening railroad roadbed bases constructed on icy permafrost soils. Kondrat'ev, V.G., [1996,eng] 50-6164
- Subgrade soils**
- Amine freezing point depressant for soil stabilization. Hemstreet, D.A., et al., [1996,eng] 50-6144
- Calculation of water transport in the LR 90 test. Onalp, A., [1977,eng] 50-2325
- Case study of insulated pavement in Jackman, Maine. Kestler, M.A., et al., [1995,eng] 50-1155
- Concepts for frost design for upgraded runway at CONUS Base 18. Johnson, T.C., [1984,eng] 50-2308
- Effect of fines content on frost heave. Tester, R.E., et al., [1996,eng] 50-6752
- Effect of the environment on the bearing capacity of a road. Final report. Part 1. Pfister, R., et al., [1979,fr] 50-2451
- Effect of water-table position on frost heave. Burns, J., [1977,eng] 50-2326
- Evaluation of reducing method of total heave amounts using soil-cement mixtures. Fukuda, M., et al., [1992,eng] 50-25
- Field observations of instrumented highway sections with different frost protections. Konrad, J.M., et al., [1996,eng] 50-6161
- Floating slabs for unheated buildings. Crory, F.E., [1987,eng] 50-3757
- Forecasting of deformation of asphalt paved frozen roadbed of the Qinghai-Xizang Highway. Wu, Z.W., et al., [1989,chi] 50-1392
- Foundation rehabilitation at ADOT/PF Jim River Maintenance Camp. Rooney, J.W., et al., [1991,eng] 50-1768
- Frost action in subgrade soils—a field/laboratory study. Hoffman, G.L., [1979,eng] 50-4616
- Frost action in subgrades of roads and airfields. Pufahl, D.E., [1996,eng] 50-6188
- Frost heave in subgrade soils of hydraulic structures. Wang, J.G., et al., [1989,chi] 50-1360
- Frost heave research at the University of Nottingham. Jones, R.H., [1977,eng] 50-2312
- Frost heave susceptibility of hydraulic structure subgrade soils. Xie, Y.Q., et al., [1989,chi] 50-1391
- Full depth testing of frost susceptible soils. Final report. Rice, D.C., [1982,eng] 50-1689
- Full depth testing of frost susceptible soils. Rice, D.C., [1974,eng] 50-4401
- Inherent variability of frost heave specimens. Nicholls, R.A., [1977,eng] 50-2319
- Mathematical model of frost heave and thaw settlement in pavements—draft. Guymon, G.L., et al., [1986,eng] 50-4348
- Minimum depth for building foundations subject to frost heave. Jiang, H.J., et al., [1989,chi] 50-1381
- Model test of ground temperature variation of embankment. Ye, B.Y., et al., [1989,chi] 50-1396
- Modeling frost heave of roads with a geotextile layer. Konrad, J.M., et al., [1996,eng] 50-5663
- Open graded base to reduce thaw weakening in flexible pavements. Kestler, M.A., [1996,eng] 50-6179
- Pavement design applying allowable frost heave. Saarela, S., [1996,eng] 50-6180
- Pavement distress caused by deep heave in Anchorage, Alaska. Tart, R.G., Jr., et al., [1996,eng] 50-6183
- Pleistocene paleosol soil development in northwest Alaska. Hoffe, C., et al., [1996,eng] 50-6517
- Pore size effects on road subgrade frost susceptibility. Wood, L.E., et al., [1982,eng] 50-2028
- Prediction of frost penetration beneath West Virginia pavements. Moulton, L.K., [1968,eng] 50-4549
- Proceedings. Colloquium on Frost Heave Testing and Research, Nottingham, England, May 18, 1977, [1977,eng] 50-2311
- Protection of arctic bridge crossing by refrigerated foundation. Christopherson, A.B., et al., [1991,eng] 50-1734
- Research program for reducing frost heave with geosynthetic capillary barriers. Henry, K.S., et al., [1996,eng] 50-6129
- Resilient modulus of cohesive soils and the effect of freeze-thaw. Lee, W.J., et al., [1995,eng] 50-578
- Shakwak Highway Project—construction challenges. Walsh, R., et al., [1996,eng] 50-6160
- Soil moisture content and water potential determined by filter paper. Waters, T.J., [1980,eng] 50-2449
- Strengthening railroad roadbed bases constructed on icy permafrost soils. Kondrat'ev, V.G., [1996,eng] 50-6164
- Study and application of strong tamping to prevent frost heave. Han, H.G., et al., [1989,chi] 50-1385
- Study and engineering practice of enclosed foundation of sluice. Yu, B.F., et al., [1989,chi] 50-1390
- Temperature and elasticity modulus of asphalt pavements. Bal-tzer, S., [1992,eng] 50-2476
- Tensile adfreezing strength between frozen soil and foundation. Ding, J.K., et al., [1989,chi] 50-1370
- Thermosiphon-based designs and applications for foundations built on permafrost. Zaring, J.P., et al., [1991,eng] 50-1733
- Use of geosynthetics in road and airfield construction in cold regions. Kinney, T.C., [1996,eng] 50-6194
- Subgrades**
- Foundation heave induced by a subgrade cooling system over permafrost. Scher, R.L., [1991,eng] 50-1737
- Mathematical model to correlate frost heave of pavements with laboratory predictions. Final report. Berg, R.L., et al., [1996,eng] 50-3333
- See [also]: Foundations; Pavement bases; Permafrost bases; Roadbeds

Sublimation

- Can inorganic chemical species volatilize from snow. Cragin, J.H., et al., [1995,eng] 50-2393
- How to paint a snowflake. Benko, J.J., [1995,eng] 50-6205
- Interaction of katabatic winds and the formation of blue-ice areas in East Antarctica. Van den Broeke, M.R., et al., [1995,eng] 50-459
- Snow surface energy exchanges and snowmelt at a continental alpine site. Cline, D., [1995,eng] 50-2408
- See [also]: Evaporation; Ice sublimation; Snow evaporation
- Submarine geology**
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- See [also]: Subsea permafrost
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- See [also]: Bottom topography; Ocean bottom
- Submarines**
- Autonomous underwater vehicle "Typhonius" for under-ice exploration. Ageev, M.D., [1996,eng] 50-5910
- AUV operations in the Arctic. Bellingham, J.G., et al., [1995,eng] 50-6307
- Multipath navigation in the Arctic: a feasibility test. Deffenbaugh, M., et al., [1995,eng] 50-6308
- Nuclear submarines and oceanography in the Arctic. DeLaca, T., et al., [1996,eng] 50-3931
- Radioecological hazard of ship nuclear reactors sunken in the Arctic. Sivintsev, I.U.V., et al., [1996,eng] 50-5676
- SARA, an autonomous underwater vehicle for researches in Antarctica. Palapia, B., et al., [1994,eng] 50-5181
- Submersible ROBY is tested in Antarctica. Bono, R., et al., [1994,eng] 50-5182
- Underwater transport system for the Arctic. Kuteinikov, A.V., et al., [1996,eng] 50-4476
- Submerged ice**
- See [also]: Underwater ice
- Subpermafrost ground water**
- Basic types of underground water in permafrost area on the Qinghai-Xizang Plateau. Guo, P.F., [1989,chi] 50-1345
- Demonstrating brine water wells and toilets for Deering, Alaska. Lundell, R.H., [1996,eng] 50-6153
- Exploration for hydrocarbon deposits and engineering preparation of oil and gas provinces. Akhmetshin, A.A., et al., [1996,eng] 50-6371
- Geocryological characteristics of the intermontane troughs in the Altay Mountains. Kuskovskii, V.S., [1996,eng] 50-6364
- Hydrogeology and engineering geology of permafrost zones. Yang, R.T., et al., [1986,chi] 50-1169
- Method of preparing a geocryological foundation for hydrogeological mapping. Lomovtseva, N.S., [1996,eng] 50-6365
- Microbiological activity in thermoglacial karst springs, South Spitsbergen. Lauritzen, S.E., et al., [1995,eng] 50-1403
- Modeling of contaminant transport in groundwater in areas of discontinuous permafrost. Johnson, R., et al., [1996,eng] 50-6114
- Overview of environmental and hydrogeologic conditions at Bethel, Alaska. Dorava, J.M., et al., [1995,eng] 50-2484
- Overview of environmental and hydrogeologic conditions at Fort Yukon, Alaska. Nakanishi, A.S., et al., [1994,eng] 50-2482
- Overview of environmental and hydrogeologic conditions at Tanana, Alaska. Nakanishi, A.S., et al., [1994,eng] 50-2483
- Permafrost hydrology in the Greater Khingan Range. Lin, F.T., et al., [1989,chi] 50-1344
- Subpermafrost groundwater in Chukotka. Ruzanov, V.T., et al., [1996,eng] 50-6367
- Subpermafrost groundwater, western Svalbard. Haldorsen, S., et al., [1994,eng] 50-5697
- Underground water of permafrost area in Da Hinggan Ling. Zheng, Q.P., [1989,chi] 50-1343
- Subpolar regions**
- Th as an indicator of particulate fluxes in the Kara Sea. Kuprov, V.M., et al., [1995,eng] 50-3544
- Age of carbon black atmospheric aerosols over Finland. Raunmaa, T., et al., [1996,eng] 50-5257
- Altimetry of North Atlantic subpolar current variations. White, M.A., et al., [1995,eng] 50-2778
- Atmospheric aerosol in the Finnish Arctic. Virkkula, A., et al., [1995,eng] 50-4952
- Atmospheric carbon emission from North Asian lakes: a factor of global significance. Semiletov, I.P., et al., [1996,eng] 50-5609
- Biogeochemistry of sediment diagenesis at Kara Sea-Yenisey River boundary layer. Lein, A.U., et al., [1995,eng] 50-3535
- Bottom sediment chemical composition of the Kara Sea and estuaries. Gurvich, E.G., et al., [1995,eng] 50-3545
- Climate history from tree rings in the subarctic area of Fennoscandia. Erönen, M., et al., [1994,eng] 50-3180
- Coastal Greenland Holocene sea level changes. Rasch, M., et al., [1995,eng] 50-5533
- Dating of Norwegian Pleistocene rock sediments. Balashov, I.U.A., et al., [1995,eng] 50-5534
- Deposit of atmospheric biphenyls in the Canadian Arctic. Gregor, D., et al., [1996,eng] 50-6521
- Dissolved inorganic carbon in the Kara Sea and in the mouths of the Ob and Yenisey Rivers. Makkaveev, P.N., [1995,eng] 50-3533
- Distribution of bacterioplankton in the Kara Sea in September 1993. Miskevich, I.N., et al., [1995,eng] 50-3537
- Ferromanganese nodules of the Kara Sea. Bogdanov, I.U.A., et al., [1995,eng] 50-3547

- Flux of dense cold overflow water southeast of Iceland. Saunders, P.M., [1996,eng] 50-3145
- Holocene shoreline displacement in southernmost Spitsbergen. Ziaja, W., et al., [1995,eng] 50-5537
- Influence of runoff from land on the distribution of hydrologic characteristics of the Kara Sea. Burenkov, V.I., et al., [1995,eng] 50-3531
- Labile dissolved forms of heavy metals in the Kara Sea waters. Kravtsov, V.A., et al., [1995,eng] 50-3534
- Lichen accumulation of airborne metals adjacent to a lead-zinc mine. Pilegaard, K., [1994,eng] 50-5604
- Marginal filter of the ocean. Lisitsyn, A.P., [1995,eng] 50-3542
- Norwegian Pleistocene crustal metamorphism. Ohta, Y., et al., [1995,eng] 50-5535
- Off-rift and rift-zone palaeostresses in northwest Iceland. Gudmundsson, A., et al., [1996,eng] 50-6207
- On the climatological mean circulation over the eastern Bering Sea shelf. Reed, R.K., et al., [1996,eng] 50-6201
- Origin of tropospheric ozone at remote high northern latitudes in summer. Mauzerall, D.L., et al., [1996,eng] 50-3449
- Particle fluxes in the Kara Sea and Ob and Yenisey estuaries. Lisitsyn, A.P., et al., [1995,eng] 50-3543
- Pelagic processes in the Norwegian and Greenland Seas. von Bodungen, B., et al., [1995,eng] 50-746
- Phosphorus in river runoff. Savenko, V.S., et al., [1995,eng] 50-4122
- Reaction of plant communities to technogenic disturbances in tundras in Yamal. Khitun, O.V., et al., [1994,eng] 50-258
- Sequence types of Upper Quaternary deposits in the Kara Sea. Levitan, M.A., et al., [1995,eng] 50-3546
- Shrub ecology in an arctic landscape. Elvebakk, A., et al., [1995,eng] 50-6070
- Snowpack evidence of air pollution in Lapland and the Kola Peninsula. Lindroos, A.J., et al., [1995,eng] 50-4955
- Subtidal and tidal currents in the vicinity of the Iceland-Faeroes front. Allen, J.T., [1995,eng] 50-159
- See [also]: Subarctic landscapes
- Subsea permafrost**
- Arctic coastal plain shorelines. Hill, P.R., et al., [1994,eng] 50-492
- Computer simulation of arctic shelf freezing during the Pleistocene. Sigunov, I.U.A., et al., [1995,eng] 50-6582
- Ecological role of a subaqueous cryolithozone. Zhigarev, L.A., [1991,eng] 50-1302
- Geotechnical design of the Baydaratskaya Bay pipeline crossing. Osweil, J.M., et al., [1995,eng] 50-177
- Nearshore geotechnical and environmental properties in arctic regions. Clausner, J.E., et al., [1978,eng] 50-3941
- Oceanic methane hydrates: a "frontier" gas resource. Max, M.D., et al., [1996,eng] 50-4799
- Possibility of subsea cryolithogenesis. Shpolianskaia, N.A., [1990,eng] 50-1627
- Probe method for interstitial soil water sampling. Harrison, W.D., et al., [1981,eng] 50-3063
- Review of the geochemistry of methane in natural gas hydrate. Kvenvolden, K.A., [1995,eng] 50-6229
- Subaqueous cryolithology survey and mapping of the oceanic cryolithozone. Zhigarev, L.A., [1996,eng] 50-6563
- Submarine cryolithozone of Russian Arctic off-shore: problems of hydrocarbon recovery. Kul'pin, L.G., et al., [1995,eng] 50-2961
- Thermal effects of the ocean on permafrost. Lachenbruch, A.H., [1957,eng] 50-3943
- U.S.G.S. Geotechnical Investigation—Beaufort Sea, Alaska, 1979, Vol.1. Bruggers, D.E., et al., [1979,eng] 50-3313
- Unfrozen water content and grain size of Mackenzie Delta core samples. Patterson, D.E., [1994,eng] 50-400
- West Dock Causeway bridge piers. Christopherson, A.B., et al., [1996,eng] 50-6133
- World Oil's handbook of arctic well completions. Goodman, M.A., [1978,eng] 50-2057
- Subsidence**
- Arctic Ocean atmospheric boundary layer structure and flow. Nilsson, E.D., [1996,eng] 50-4314
- Cenozoic deposition on the Svalbard continental shelf. Solheim, A., et al., [1996,eng] 50-5312
- Geology and tectonic evolution of Germanialhalvøya, Spitsbergen. Piepjohn, K., et al., [1994,ger] 50-1577
- Infrared measurement of arctic atmospheric chemical species. Wetzel, G., et al., [1995,eng] 50-2115
- Inverse relation between ice extent and the late Paleozoic glacial record of Gondwana. González-Bonorino, G., et al., [1995,eng] 50-1807
- Major palaeohydrographic changes in alpine foreland during the Pliocene-Pleistocene. Petit, C., et al., [1996,eng] 50-6538
- Numerical simulation of arctic stratus cloud turbulence. Smith, W.S., et al., [1996,eng] 50-2773
- Oilwell casing downdrag from subsidence at Prudhoe Bay. Nair, K., et al., [1971,eng] 50-4196
- Periglacial landforms and sediments. Semmel, A., [1990,ger] 50-1793
- Postglacial rebound from VLBI geodesy: on establishing vertical reference. Argus, D.F., [1996,eng] 50-5459
- Relations between atmospheric circulation and glacier mass balance. McCabe, G.J., Jr., et al., [1995,eng] 50-3323
- Sea level variations related to glacial isostasy. Mitrova, J.X., et al., [1995,eng] 50-1185
- Submerged terraces in the Barents Sea. Lebesbye, E., et al., [1996,eng] 50-4876

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- Cold regions aspects of mobile test bed hardening in Montana. Blaisdell, G.L., et al. [1987,eng] 50-2725
- Controlling recultivated successions. Teteruk, B.I.U., [1994,rus] 50-300
- Deforming bed conditions on the Dänischer Wohld Peninsula, northern Germany. Hart, J.K., et al. [1996,eng] 50-6536
- Dispersion-force effects in interfacial premelting of ice. Wilen, L.A., et al. [1995,eng] 50-2134
- Electron cryo-microscopy of graphite in amorphous ice. Bötcher, B., [1995,eng] 50-1647
- Experience in biological recultivation of alluvial sandy soils in the Lena River floodplain. Poklonnaia, L.V., [1994,rus] 50-299
- Ice-pavement bond disbonding—fundamental study. Blackburn, R.R., et al. [1993,eng] 50-876
- Is erosion by deforming subglacial sediments significant? (Toward till continuity). Cuffey, K., et al. [1996,eng] 50-6235
- Landform and sediment associations of dry-based glaciers in arid polar environments. Humphreys, K.A., et al. [1996,eng] 50-6577
- Model for the development of sod-podzolic soils by windthrow. Vasenev, I.I., et al. [1995,eng] 50-2712
- New simple route to the synthesis of protease substrates in ice. Ullmann, D., et al. [1996,eng] 50-6713
- Radiocarbon dating of buried soils with particular reference to Holocene solifluction. Matthews, J.A., [1993,eng] 50-846
- Seasonal nitrogen cycles on Pluto. Hansen, C.J., et al. [1996,eng] 50-4347
- Spectroscopy of deuterium oxide ice desorption and substrate wettability. Engquist, I., et al. [1995,eng] 50-1570
- Thermal erosion in high arctic ecosystems in Spitsbergen. King, L., et al. [1993,eng] 50-843
- Subsurface drainage**
- Albedo of dirty snow during conditions of melt. Conway, H., et al. [1996,eng] 50-5969
- Cold-climate constructed wetlands. Møhlum, T., et al. [1995,eng] 50-6066
- Evaluation of geocomposite edge drain on sand subgrade. Raymond, G.P., et al. [1996,eng] 50-5662
- Gelifluction rates as global change indicators. Kirkby, M.J., [1995,eng] 50-4195
- Groundwater flow through Ontario glacial deposits. Gerber, R.E., et al. [1996,eng] 50-6750
- Incorporation of a drainage layer and infiltration into FROST. Abdel-Salam, A., et al. [1993,eng] 50-6050
- Modeling of contaminant transport in groundwater in areas of discontinuous permafrost. Johnson, R., et al. [1996,eng] 50-6114
- Open graded base to reduce thaw weakening in flexible pavements. Kestler, M.A., [1996,eng] 50-6179
- Stream flow hydrographic separation during watershed snow-melt. Sucker, J.K., [1995,eng] 50-2419
- Streamflow generation in a headwater basin on the Precambrian Shield. Wels, C., et al. [1991,eng] 50-3680
- Study on methods to restore the performance of drainable pavements. Abe, A., et al. [1995,jpn] 50-6802
- Suprapervfrost groundwater seepage in gravelly terrain, Resolute, N.W.T., Canada. Woo, M.K., et al. [1995,eng] 50-668
- Tests of asphalt pavements with improved drainage in cold regions. Toya, K., et al. [1995,jpn] 50-6801
- Transient hydrogeological controls on the chemistry of a seepage lake. Krabbenhoft, D.P., et al. [1995,eng] 50-2730
- Using reed beds for winter operation of wetland treatment system for wastewater. Yin, H., et al. [1995,eng] 50-6067
- Subsurface investigations**
- Alternatives for closure of solid oily waste sites on the North Slope of Alaska. Kellems, B.L., et al. [1991,eng] 50-1709
- Changes in the configuration of ice stream flow from the West Antarctic ice sheet. Jacobel, R.W., et al. [1996,eng] 50-4360
- Geological and geophysical exploration of alpine and peri-alpine glacial valleys. Pugin, A., et al. [1995,eng] 50-3315
- Ground penetrating radar detection of a buried metallic object. O'Neill, K., et al. [1996,eng] 50-4038
- Ground penetrating radar investigations of massive ground ice. Dallimore, S.R., et al. [1992,eng] 50-56
- Ground penetrating radar monitoring of permafrost along the Norman Wells pipeline. Moorman, B.J., et al. [1994,eng] 50-5590
- Ground penetrating radar sounding of bedrock under a frozen lake. Davis, J.L., et al. [1992,eng] 50-57
- Ground penetrating radar study of peat stratigraphy. Nobes, D.C., et al. [1992,eng] 50-63
- Ground penetrating radar. Pilon, J.A., ed. [1992,eng] 50-54
- Ground probing radar investigation of permafrost in northern Quebec. Pilon, J.A., et al. [1992,eng] 50-65
- Ground-penetrating radar investigation of the proposed dome-CARA tunnel route (South Pole Station). Arcene, S.A., et al. [1995,eng] 50-4543
- Guide to polar diving. Jenkins, W.T., [1976,eng] 50-3837
- Mapping the architecture of glaciofluvial sediments with three-dimensional georadar. Beres, M., et al. [1995,eng] 50-2529
- Microprocessor based ice-radar system for surface profiling. Jacobel, R.W., et al. [1992,eng] 50-59
- Polarimetric detection of objects buried in snowpack by a synthetic aperture FM-CW radar. Yamaguchi, Y., et al. [1996,eng] 50-2700
- Quaternary stratigraphy of the buried valleys of the lower Red Deer River, Alberta, Canada. Evans, D.J.A., et al. [1995,eng] 50-1080
- Radar investigations of firm structures and crevasses. Glover, J.M., et al. [1992,eng] 50-58
- Radiometer for the detection of avalanche victims. Šval, M., [1995,eng] 50-4692
- Sub-surface melting in a seasonal snow cover. Koh, G., et al. [1995,eng] 50-1869
- Submersible remote controlled vehicles for glacier-ocean-sediment study. Dowdeswell, J.A., et al. [1996,eng] 50-4902
- Underwater explosions beneath ice. Tanglis, E., et al. [1989,eng] 50-3836
- Underwater maintenance and inspection of CP systems (Cook Inlet, Alaska). Daley, J.C., et al. [1996,eng] 50-5502
- Subsurface structures**
- "Frozen" flowline reduces strain on pipe wall during tow-out. [1996,eng] 50-4148
- Arctic pipeliners get to grips with scour. [1990,eng] 50-5587
- Foundation rehabilitation at ADOT/PF Jim River Maintenance Camp. Rooney, J.W., et al. [1991,eng] 50-1768
- How the Arctic's top field will be developed. [1987,eng] 50-4287
- Hydraulic conductivity of frozen granular soils. Andersland, O.B., et al. [1996,eng] 50-4048
- Hydraulic structures in permafrost. Gevirtz, G.I.A., [1993,eng] 50-104
- Interference fringes from Bering Sea sonar images. Huggett, Q.J., et al. [1992,eng] 50-4250
- Large-diameter glory hole drilling: the evolution from 12- to 20-ft diameter. Shields, R.G., [1991,eng] 50-1738
- Offshore development in iceberg-infested waters with the use of a concrete protective barrier. Broughton, P., et al. [1991,eng] 50-1731
- Pipeline stability in an ice-scoured seabed. Clark, J.L., et al. [1990,eng] 50-100
- Polarimetric detection of objects buried in snowpack by a synthetic aperture FM-CW radar. Yamaguchi, Y., et al. [1996,eng] 50-2700
- Soil thermal properties for the design of underground structures in cold regions. Steinmanis, J.E., et al. [1996,eng] 50-6146
- Underground fuel tanks for Alaska. Freas, G.C., [1991,eng] 50-4226
- Underwater maintenance and inspection of CP systems (Cook Inlet, Alaska). Daley, J.C., et al. [1996,eng] 50-5502
- See [also]: Underground facilities
- Sunlight**
- Solar halos and sun dogs. Glassner, A., [1996,eng] 50-4499
- Ultraviolet and visible solar irradiance at the Weddell-Scouta Confluence, spring 1993. Sikorski, R.J., et al. [1994,eng] 50-4244
- Sunshine**
- See [also]: Insolation
- Supercooled clouds**
- Accretion of monodisperse droplets on a thin wire. Prodi, F., et al. [1996,eng] 50-5393
- Airborne hydrogen peroxide measurements in supercooled clouds. Snider, J.R., et al. [1995,eng] 50-2114
- Aircraft observations of ice formation over the Japan Sea. Asuma, Y., et al. [1995,eng] 50-6716
- Analyses of conductor ice accretion and meteorological characteristics. Luo, N., et al. [1996,eng] 50-5376
- Aviation meteorology for visual and instrument flight rules: aircraft icing. McCool, K.B., [1992,eng] 50-3706
- Chemical variations between polar stratospheric cloud phases. Ravishankara, A.R., et al. [1996,eng] 50-3443
- Cloud structure derived from remote sensing measurements. Sassen, K., [1984,eng] 50-4921
- Comments on "Production of ice particles in clouds due to aircraft penetrations". Mossop, S.C., et al. [1984,eng] 50-4917
- Competition of precipitation particles in a model with parameterized cloud microphysics. Wacker, U., [1995,eng] 50-413
- Detection of possible aircraft icing in clouds by passive-active radars. Tarabukin, I.A., et al. [1992,eng] 50-3569
- Determination of liquid water altitudes using combined remote sensors. Politovich, M.K., et al. [1995,eng] 50-1414
- Electrification of thunderstorm cells during cloud ice formation. Ramachandran, R., et al. [1996,eng] 50-3020
- Experimental closure of the heat and mass transfer theory of spheroidal hailstones. Greenan, B.J.W., et al. [1995,eng] 50-2117
- How to measure the wind accurately in icing conditions. Kenyon, P.R., et al. [1996,eng] 50-4030
- Ice cloud microphysics in a general circulation model. pt.3. Fowler, L.D., et al. [1996,eng] 50-5017
- Ice content retrieval from clouds using Doppler radar. Sauvageot, H., [1996,eng] 50-2772
- Ice is where you find it. Steenblik, J.W., [1995,eng] 50-4705
- Icing conditions encountered by a research aircraft. Sand, W.R., et al. [1984,eng] 50-4493
- Infight icing: certification vs. reality. Steenblik, J.W., [1995,eng] 50-1962
- Intercomparison of mesoscale forecasts of aircraft icing using SSM/I retrievals. Tremblay, A., et al. [1996,eng] 50-4524
- Kinetics of ice nucleation initiated by molecular crystals. Tatsumskii, V.K., et al. [1995,eng] 50-3815
- Mixed-phase cloud scheme based on a single prognostic equation. Tremblay, A., et al. [1996,eng] 50-6665
- Moisture profiling of the cloudy winter atmosphere using combined remote sensors. Stankov, B.B., et al. [1995,eng] 50-158
- Numerical forecasting of liquid water content to assess airframe icing risk. Lunnun, R.W., [1991,eng] 50-3266

- Oxidation of S(IV) during riming by cloud droplets. Iribarne, J.V., et al. [1995,eng] 50-1103
- Potential icing forecast compared with NOAA-14 images. Fuchs, W., et al. [1996,eng] 50-5374
- Production and depletion of supercooled liquid water in a Colorado winter storm. Politovich, M.K., et al. [1995,eng] 50-3560
- Proposed icing severity index based upon meteorology. Politovich, M.K., et al. [1991,eng] 50-3263
- Radiometric observations of supercooled liquid water within a split front over Sierra Nevada. Heggli, M.F., et al. [1985,eng] 50-4972
- Rapid glaciation of slightly supercooled cumulus clouds. Mason, B.J., [1996,eng] 50-5010
- Relationship of tropospheric dry layers to freezing precipitation type. Smith, G., [1995,eng] 50-6684
- Rotating multicylinder for measuring cloud water content and droplet size. Jones, K.F., et al. [1996,eng] 50-4032
- Supercooled liquid water in Colorado Front Range winter storms. Rasmussen, R.M., et al. [1991,eng] 50-3264
- Tips on avoiding low-level icing. Schuyler, N., [1986,eng] 50-4403
- Unusual types of single ice crystals originating from frozen cloud droplets. Magono, C., et al. [1979,eng] 50-5794
- Supercooling**
- Clathrate-like structures in supercooled water. Walrafen, G.E., et al. [1995,eng] 50-155
- Cold resistance mechanisms in high desert Andean plants. Squeo, F.A., et al. [1996,eng] 50-5774
- Competition of precipitation particles in a model with parameterized cloud microphysics. Wacker, U., [1995,eng] 50-413
- Cooperativity and hydrogen bond network lifetime in liquid water. Lamanna, R., et al. [1995,eng] 50-5714
- Cryomicroscopic determination of ice crystal growth in the system 2,4-pentadiol/water. Mehl, P.M., [1996,eng] 50-2744
- Crystallisation and the glass transition in suspensions of hard colloidal spheres. van Meegen, W., [1995,eng] 50-1223
- Deep supercooling in buds of woody plants. Quamme, H.A., [1995,eng] 50-3280
- Deep supercooling in woody plants and the role of cell wall structure. Wisniewski, M., [1995,eng] 50-3279
- Depolarized light scattering spectroscopy of glassforming liquids: experimental tests of MCT. Cummins, H.Z., et al. [1995,eng] 50-1222
- Design of capacitor to measure permittivity of supercooled aqueous solutions. Wolter, F., et al. [1996,eng] 50-5503
- Dynamics of metastable states: mode-coupling theory and beyond. Duffy, J.W., et al. [1995,eng] 50-1221
- Effects of anti-icing fluid on wing lift during supercooled precipitation. Bouchard, G., et al. [1995,eng] 50-3255
- Environmental biology of a tropical tree line species. *Polylepis sericea*. Goldstein, G., et al. [1994,eng] 50-3050
- Experimental study of dielectric relaxation in supercooled alcohols and polyols. Murthy, S.S.N., [1996,eng] 50-4084
- Experimental study on the melting transition at interface between ice crystal and substrate. Furukawa, Y., et al. [1994,eng] 50-3072
- Freezing characteristics of rigid plant tissues. Rajashekar, C.B., et al. [1996,eng] 50-6554
- Grain multiplication mechanism for sea ice transition zone formation. Wei, Y.C., et al. [1995,eng] 50-1143
- Homogeneous nucleation in supercooled molecular clusters. Bartell, L.S., et al. [1995,eng] 50-1280
- Ice/supercooled water linear correlation length from Raman spectroscopy. Walrafen, G.E., et al. [1995,eng] 50-152
- Influence of supercooling on salt-water saturated porous medium. Okada, M., et al. [1996,eng] 50-6762
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1996,eng] 50-5161
- Kinetics of freezing of dimethylacetylene. An electron diffraction study. Huang, J.F., et al. [1995,eng] 50-151
- Light-scattering spectrum of supercooled liquids. Latz, A., et al. [1996,eng] 50-5102
- Liquid water below 150K. Johari, G.P., et al. [1996,eng] 50-5444
- Liquid-glass transition in a strong glassformer. Torelli, L.M., et al. [1995,eng] 50-1225
- Low summer temperatures: a potential mortality factor for high arctic soil microarthropods? Coulson, S.J., et al. [1995,eng] 50-1178
- Low-temperature amorphous phase in a fragile glass-forming substance. Cohen, I., et al. [1995,eng] 50-5971
- Micro-solidification of solutions with supercooling. Hayashi, Y., [1996,eng] 50-6431
- Microscopic dynamics of glycerol in its crystalline and glassy states. Bermejo, F.J., et al. [1996,eng] 50-4418
- Microscopy of xylem ray supercooling wood tissues response to freezing stress. Ristic, Z., et al. [1995,eng] 50-3341
- Mode coupling in critical phenomena and supercooled liquids. Kawasaki, K., [1995,eng] 50-1219
- Mode coupling theory of structural relaxations. Götz, W., et al. [1995,eng] 50-1220
- Model of the glass transition. Mansfield, M.L., [1995,eng] 50-1445
- Molecular dynamic simulation of proton transport in supercooled water. Di Cola, D., et al. [1996,eng] 50-3715
- Molecular dynamics investigations of slow relaxations in supercooled liquids. Hansen, J.P., et al. [1995,eng] 50-1226
- Molecular dynamics study of the freezing of clusters of chalcogen hexafluorides. Kinney, K.E., et al. [1996,eng] 50-5780

Superior, Lake

- Monte Carlo simulation of the glass transition in polymer melts: an application of MCT. Baschnagel, J., [1995,eng] 50-1229
- New approach to the dynamics of hydrogen bond network in liquid water. Matsumoto, M., et al., [1996,eng] 50-3616
- Numerical simulation of river ice processes. Shen, H.T., et al., [1995,eng] 50-3555
- Numerical studies of Langevin equations for the dynamics of a dense hard sphere fluid. Valls, O.T., et al., [1995,eng] 50-1228
- Penetrative convection induced by the freezing of seawater. Hadji, L., et al., [1996,eng] 50-6761
- Quantitative cold differential thermal analysis. Dunn, J.R., et al., [1965,eng] 50-4739
- Quasielastic neutron scattering in glass forming viscous liquids. Perry, W., et al., [1995,eng] 50-1224
- Relaxation dynamics of supercooled polymers. Parthun, M.G., et al., [1995,eng] 50-1572
- Relaxation processes in supercooled carbohydrates. Gangasharan, et al., [1995,eng] 50-1571
- Research on a thermal conductivity measurement of supercooled water. Saito, A., et al., [1996,eng] 50-6475
- Rime climate in Sodankylä. Säänti, K., et al., [1992,eng] 50-3630
- Slow dynamics of water molecules in supercooled states. Gallo, P., et al., [1996,eng] 50-4293
- Spectroscopy of freezing mechanisms of sulfuric acid aerosols. Bertram, A.K., et al., [1996,eng] 50-4143
- Structural characteristics of hydrogen-bonded networks in water and ice systems. Dore, J.C., et al., [1995,eng] 50-2697
- Subglacial ice accretion in an Alaskan glacier. Strasser, J.C., et al., [1996,eng] 50-6250
- Supercooled liquids. Mohanty, U., [1995,eng] 50-1405
- Supercooling and ice nucleation in vertebrate ectotherms. Costanzo, J.P., et al., [1995,eng] 50-3282
- Supercooling and the Mpemba effect: when hot water freezes quicker than cold. Auerbach, D., [1995,eng] 50-5706
- Testing mode-coupling theory for a supercooled binary Lennard-Jones mixture. Kob, W., et al., [1995,eng] 50-1227
- Thermal investigation of crystal nucleation from a supercooled liquid. Mu, R., et al., [1996,eng] 50-4354
- Thermodynamic theory of supercooled liquids. Kivelson, D., et al., [1995,eng] 50-943
- Turbine engine icing spray bar design issues. Bartlett, C.S., [1995,eng] 50-1654
- Unfrozen water types in hydrated phospholipid bilayers. Hsieh, C.H., et al., [1995,eng] 50-3038
- Water rotation in supercooled aqueous solutions. Nakahara, M., et al., [1995,eng] 50-153

Superior, Lake

- Deposition of semivolatile organic chemicals by snow. Franz, T.P. Jr., [1994,eng] 50-372

Supersaturation

- Bursts of cloud condensation nuclei (CCN) by dissipating clouds at Palmer Station, Antarctica. Saxena, V.K., [1996,eng] 50-3602
- Comments on paper by P.S. Anderson. Makkonen, L., et al., [1996,eng] 50-6587
- Formation mechanism of side branches of dendritic ice crystals grown from vapor. Gonda, T., et al., [1996,eng] 50-5193
- Formation of polar stratospheric clouds on preactivated background aerosols. Zhang, R.Y., et al., [1996,eng] 50-6510
- Influence of temperature on crystallization of lactose in ice-cream. Livney, Y.D., et al., [1995,eng] 50-2745
- Ion-induced nucleation around radon daughters in remote arctic maritime air. Bigg, E.K., [1996,eng] 50-4322
- Migration of water vapor across the boundary between snow cover and frozen soil. Golubev, V.N., et al., [1995,eng] 50-4111
- Model of cloudiness evolution in cirrus cloud masses. Khvorostanov, V.I., [1995,eng] 50-4749
- Natural ice nucleus measurement under high supersaturation. Mizuno, H., et al., [1995,eng] 50-3719
- Parameterization of cloud ice crystal conversion processes, pt.1. Harrington, J.Y., et al., [1995,eng] 50-3260
- Relative humidity influences on cirrus cloud ice crystal formation. Heymsfield, A.J., et al., [1995,eng] 50-3259
- Simulation of rain production in convective clouds, pt.1. Reislin, T., et al., [1996,eng] 50-4369
- Sounding of nitric acid aerosol in the arctic stratosphere. Schlager, H., et al., [1990,eng] 50-4724
- Theory of atmospheric ice crystal growth and sublimation. Nelson, J.T., et al., [1996,eng] 50-4351
- Thermodynamic analysis of the influence of electric fields on frost formation. Ma, H.B., et al., [1995,eng] 50-2156

Superstructures

- Arctic research vessel preliminary design report. University of Alaska. Institute of Marine Science, [1994,eng] 50-5437
- Heaters for oil pipelines. [1991,eng] 50-4380
- Northumberland Strait bridge: analysis techniques and results. Ghali, A., et al., [1996,eng] 50-5046
- Rotatable shortwave curtain antenna operable at very high wind speeds. Bruger, P., et al., [1996,eng] 50-6621

Supplies

See [also]: Logistics

Supports

- Earthquake shock absorbers for bridges in cold regions. Sato, M., et al., [1993,jpn] 50-2839
- Helicopter services for USAP and NZAP. Petroleum Helicopters, Inc., [1996,eng] 50-5925
- New non-freezing fluid for a hydraulic system of mechanized supports. Sleptsov, V.P., et al., [1992,rus] 50-811

- Open-cast underground technology of permafrost placer mining in the Arctic. Lavrov, N.P., et al., [1991,eng] 50-1717
- Support of vertical-shaft collar under complex geocryological conditions. Izakson, V.I.U., et al., [1995,eng] 50-417
- Supporting permafrost bases for lower pile-drivers of vertical mine shafts while in operation. Izakson, V.I.U., et al., [1989,rus] 50-2251
- Thin retaining walls for conditions in the Far North and the Far East. Omel'chenko, I.U.M., [1992,rus] 50-758
- Workshop on Antarctic Air Transport Networks. Council of Managers of National Antarctic Programs, [1995,eng] 50-6270

See [also]: Pipeline supports; Power line supports

Suprapermafrost ground water

- Basic types of underground water in permafrost area on the Qinghai-Xizang Plateau. Guo, P.F., [1989,chi] 50-1345
- Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996,rus] 50-6382
- Cryogenic state of soil in the cryolithozone (Yakutia). Gavril'ev, P.P., et al., [1996,rus] 50-6844
- Geocryological characteristics of the intermontane troughs in the Altay Mountains. Kuskovskii, V.S., [1996,rus] 50-6364
- Hydrogeology and engineering geology of permafrost zones. Yang, R.T., et al., [1986,chi] 50-1169
- Modeling of contaminant transport in groundwater in areas of discontinuous permafrost. Johnson, R., et al., [1996,eng] 50-6114
- Permafrost hydrology in the Greater Khingan Range. Lin, F.T., et al., [1989,chi] 50-1344
- Some examples of stationary investigations of cryogenic processes in Transbaikalia. Poznanin, V.L., et al., [1993,rus] 50-114
- Suprapermafrost groundwater seepage in gravelly terrain. Resolute, NWT, Canada. Woo, M.K., et al., [1995,eng] 50-668
- Suprapermafrost taliks as arctic water supplies. Burchak, T.V., et al., [1990,rus] 50-1601
- Underground water of permafrost area in Da Hinggan Ling. Zheng, Q.P., [1989,chi] 50-1343

Surface active agents

See [also]: Surfactants

Surface boundary layer

See [also]: Atmospheric boundary layer

Surface drainage

- A hydrochemical model for seasonally snow-covered alpine watersheds. Wolford, R.A., et al., [1996,eng] 50-4237
- Application of a surface hydrology scheme to a watershed. Leung, L.R., et al., [1996,eng] 50-6056
- Channel erosion during flooding of alpine streams. Becht, M., [1996,ger] 50-5251
- Effect of climate change on hydrologic regime of two climatically different watersheds. Loukas, A., et al., [1996,eng] 50-6100
- Fluvial morphology and streamflow on Deception Island, Antarctica. Inbar, M., [1995,eng] 50-4190
- Glacial drainage towards the Mediterranean during the Middle and Late Pleistocene. Arkhipov, S.A., et al., [1995,eng] 50-1799
- Influence of runoff from land on the distribution of hydrologic characteristics of the Kara Sea. Burenkov, V.I., et al., [1995,eng] 50-3531
- Major palaeohydrographic changes in alpine foreland during the Pliocene-Pleistocene. Petit, C., et al., [1996,eng] 50-6538
- Natural and technogenic water and sediment supply to the Laptev Sea. Alabian, A.M., et al., [1995,eng] 50-2094
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge, Alaska. Department of Environmental Conservation. Division of Environmental Quality, [1990,eng] 50-3913
- Organic carbon variations in stream waters during snowmelt. Boyer, E.W., et al., [1995,eng] 50-2422
- Paleoclimatic change from Lake Baikal sediments. Edgington, D.N., et al., [1996,eng] 50-6633
- Preliminary considerations for runoff modelling in GCMS. Versegghy, D., [1994,eng] 50-5701
- Proceedings. International Symposium on Biogeochemistry of Seasonally Snow-covered Catchments, Boulder, CO, July 1-14, 1995, [1995,eng] 50-2391
- Reconstructed runoff from the high arctic basin Bayelva based on mass-balance measurements. Hagen, J.O., et al., [1995,eng] 50-4013
- RIVERS: simulation of river discharge and sediment transport. Syvitski, J.P.M., et al., [1995,eng] 50-3597
- Runoff modeling of a small river basin. Ambrose, B., et al., [1996,eng] 50-6586
- Russian oceanographic expedition in the Kara Sea. Lisitsyn, A.P., et al., [1995,eng] 50-3530
- Satellite imagery of ice sheet drainage basins, Russian Arctic. Dowdeswell, J.A., et al., [1995,eng] 50-3327
- Seasonal variations in arctic glacier sediment transport. Hodgkins, R., [1996,eng] 50-6253
- Snowmelt and slush torrents in Swedish Lapland. Gude, M., et al., [1995,eng] 50-4188
- Water resources data for Alaska, water year 1994. Bigelow, B.B., et al., [1995,eng] 50-2169
- Wutach gorge in SW Germany: late Würmian (periglacial) downcutting versus Holocene processes. Einsele, G., et al., [1995,eng] 50-2750

Surface energy

- Asian summer monsoon sensitivity to Eurasian snow cover. Douville, H., et al., [1996,eng] 50-5863

Surface roughness

- Boreal forest and the polar front. Pielke, R.A., et al., [1995,eng] 50-2847
- Dispersion-force effects in interfacial premelting of ice. Wilen, L.A., et al., [1995,eng] 50-2134
- Effect of microclimate on road superstructures. Final report. Dysli, M., et al., [1986,fre] 50-3320
- Energy balance model for a small valley glacier, pt.1. Arnold, N.S., et al., [1996,eng] 50-4893
- Energy balance of snow and partially snow covered areas in western Greenland. Harding, R.J., et al., [1995,eng] 50-5088
- Energy partitioning at treeline forest and tundra sites and its sensitivity to climate change. Lafleur, P.M., et al., [1995,eng] 50-600
- Energy-balance model of lake-ice evolution. Liston, G.E., et al., [1995,eng] 50-457
- Fluctuations during melting. Grimsditch, M., et al., [1996,eng] 50-6345
- On the modelling of ice cover fracture. Slepian, L.I., [1990,eng] 50-94
- Parameterization of surface albedo for sea ice and its snow cover. Barry, R.G., [1996,eng] 50-5014
- Physical climatology of alpine tundra, Scout Mountain, British Columbia, Canada. Saunders, I.R., et al., [1996,eng] 50-4235
- Radiative fluxes and their impact on the energy balance of the Greenland ice sheet. Koetzmann, T., et al., [1995,eng] 50-1871
- Simple energy budget algorithm for the snowmelt runoff model. Kustas, W.P., et al., [1994,eng] 50-3819
- Snow surface energy exchanges and snowmelt at a continental alpine site. Clive, D., [1995,eng] 50-2408
- Spatial energy budgets in alpine tundra. Greenland, D., [1993,eng] 50-4802
- Winter surface energy budget in Denver, Colorado. Ruffieux, D., [1995,eng] 50-2152

Surface markers

See [also]: Markers

Surface properties

- Adsorption and photochemistry of dinitrogen tetroxide on low temperature ice layers. Rieley, H., et al., [1996,eng] 50-4295
- Characteristics of the development of thermo-erosional gullies on mid-alpine slopes. Varlamov, S.P., [1996,rus] 50-6405
- Classification of arctic cloud and sea ice features in multi-spectral satellite data. Key, J.R., [1994,eng] 50-4357
- Composition of clay mineral associations in bottom sediments of the Arctic Ocean. Levitan, M.A., et al., [1995,rus] 50-3768
- Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al., [1996,eng] 50-4766
- Disturbances in the thermohaline structure of the near-surface ocean layer in the wake of an iceberg. Abaza, V.P., et al., [1995,rus] 50-4202
- Effect of sea ice surface features on radar backscatter. Ulander, L.M.H., et al., [1995,eng] 50-1813
- Electric field effects on growing ice surface force curves. Slaughterbeck, C.R., et al., [1996,eng] 50-5939
- Inter-diurnal variation of hydrometeorological elements of the Barents Sea. Girdiuk, G.V., [1992,rus] 50-1269
- Late Holocene snow avalanche activity in southern Norway. McCarroll, D., et al., [1995,eng] 50-3336
- Magnetic analysis of glacial sediment weathering. Walden, J., et al., [1995,eng] 50-4562
- Parameterization of surface albedo for sea ice and its snow cover. Barry, R.G., [1996,eng] 50-5014
- SO₂ distributions on Io. Sartoretti, P., et al., [1996,eng] 50-6529
- Spectral albedos of Charon's surface composition. Roush, T.L., et al., [1996,eng] 50-4002
- State of SO₂ on Io's surface. Kerton, C.R., et al., [1996,eng] 50-4257
- Surface features of interstellar ice. McCoustra, M., et al., [1996,eng] 50-5244
- Temporal analysis of ERS-1 SAR backscatter for hydrology applications. Crevier, Y., et al., [1996,eng] 50-5543
- Thermal conductivity of model ice comet surfaces. Ibadinov, Kh.I., et al., [1987,eng] 50-1770
- Uptake of chlorine dioxide by model PSCs under stratospheric conditions. Brown, L.A., et al., [1996,eng] 50-4164

See [also]: Glacier surfaces; Ice surface; Microrelief; Snow surface

Surface roughness

- Analysis of spatial reverberation statistics in the central Arctic. LePage, K., et al., [1996,eng] 50-5191
- Characteristics of surface roughness associated with leading-edge ice accretion. Shin, J.W., [1996,eng] 50-4407
- Heat flux over a melting Greenland ice sheet. Braithwaite, R.J., [1995,eng] 50-1877
- Ice-pavement bond disbonding—fundamental study. Blackburn, R.R., et al., [1993,eng] 50-876
- Introductory analysis of boundary-layer development on de/anti-icing fluid. Perron, E., et al., [1996,eng] 50-4217
- Measuring geophysical parameters of the Greenland ice sheet using airborne radar altimetry. Ferraro, E.J., et al., [1995,eng] 50-1881
- Methods for measuring discharge under ice cover—discussion. Engel, P., et al., [1996,eng] 50-2721
- Millimetric radar backscatter from snowcover. Williams, L.D., et al., [1987,eng] 50-6200
- Numerical model of flow in ice-covered channel. Yoon, J.Y., et al., [1996,eng] 50-2720

Surface structure

- Response of alpine vegetation canopy to experimental wind barrier. Smith, B., et al. [1996,eng] 50-3786
- Saline ice sheet surface scattering with controlled roughness parameters. Bredow, J.W., et al. [1995,eng] 50-982
- Search for proxy indicators of young sea ice thickness. Zabel, I.H.H., et al. [1996,eng] 50-4303
- Simulated structure of ice nanocrystal surface. Buch, V., et al. [1996,eng] 50-4183
- Sliding of glacial till over bedrock. Hindmarsh, R.C.A. [1996,eng] 50-6238
- Sound reflection from ice cover. Kudriashov, V.M., [1996,eng] 50-4627
- Spatial distribution of snow chemical load at the tundra-taiga transition. Pomeroy, J.W., et al. [1995,eng] 50-2412
- Study of the morphology of a discontinuous section of a first year arctic pressure ridge. Bowen, R.G., et al. [1996,eng] 50-3829
- Surface morphology and backscattering of ice-ridge sails in the Baltic Sea. Manninen, A.T., [1996,eng] 50-4899
- Temporal evolution of under ice reflectivity. Laible, H.A., et al. [1996,eng] 50-4591
- Under cover transport and accumulation of frazil granules—discussion. Quo, Q.Z., et al. [1996,eng] 50-6337
- Use of SAR satellite imagery to measure active layer moisture contents in arctic Alaska. Kane, D.L., et al. [1994,eng] 50-5695
- Validation of backscatter models for level and deformed sea-ice in ERS-1 SAR images. Carlström, A., et al. [1995,eng] 50-1811

Surface structure

- Compaction tests to simulate icy satellite regolith physics. Leliwa-Kopystyński, J., et al. [1995,eng] 50-5200
- Cratering phenomena on aircraft anti-icing films. La Due, J., et al. [1996,eng] 50-4219
- Disturbances in the thermohaline structure of the near-surface ocean layer in the wake of an iceberg. Abaza, V.P., et al. [1995,eng] 50-4202
- Electron scanning of Quaternary deposit grain shape. Molnár, B., et al. [1995,eng] 50-1040
- Extraction of deformation descriptors from spaceborne radar ice motion products. Li, S., et al. [1995,eng] 50-1812
- Frontal signals east of Iceland from the GEOSAT altimeter. Robinson, A.R., et al. [1989,eng] 50-4707
- Hoods, mists, frosts, and ice caps at the poles of Mars. Dollfus, A., et al. [1996,eng] 50-5194
- Morphology and morphometry of quartz grains from loess and buried soil layers. Velichko, A.A., et al. [1995,eng] 50-1038
- Rates of heave and surface rotation of periglacial frost boils in the White Mountains, California. Wilkerson, F.D., [1995,eng] 50-3785
- Rates of rock surface lowering. Princess Elizabeth Land, eastern Antarctica. Spate, A.P., et al. [1995,eng] 50-4149
- Results of black ice inhibiting filler use on asphalt test sections. Arand, W., [1995,ger] 50-2841
- Satellite imagery of ice sheet drainage basins, Russian Arctic. Dowdeswell, J.A., et al. [1995,eng] 50-3327
- Sea ice scouring on the inner shelf of the southeastern Canadian Beaufort Sea. Héquette, A., et al. [1995,eng] 50-1830
- Snow and ice reflectance spectra of the Nansen Ice Sheet surfaces. Zibordi, G., et al. [1996,eng] 50-5467
- Straight line measurements of an open four-sided figure. Hofmann, W., [1958,ger] 50-4633
- Study of the morphology of a discontinuous section of a first year arctic pressure ridge. Bowen, R.G., et al. [1996,eng] 50-3829
- Surface layers on ice. Knight, C.A., [1996,eng] 50-6058
- Titan's surface: composition and variability from the near-infrared albedo. Coustenis, A., et al. [1995,eng] 50-2031
- Topographic origin for double-ridge features in visible imagery of ice divides in Antarctica. Goodwin, A.H., et al. [1995,eng] 50-1870
- Universal multifractal scaling of synthetic aperture radar images of sea-ice. Falco, T., et al. [1996,eng] 50-5685
- Ventifacts as palaeo-wind indicators in southern Scandinavia. Schlyter, P., [1996,eng] 50-6698
- Volcanic and tectonic history of Enceladus. Kargel, J.S., et al. [1996,eng] 50-3864
- Wear resistant concrete for pavements. Pedersen, N., [1988,eng] 50-4227

Surface temperature

- 135,000-year Vostok SPECMAP common temporal framework. Sowers, T., et al. [1993,eng] 50-2867
- Air Force Global Weather Central Surface Temperature model. Kopp, T.J., [1995,eng] 50-3300
- Algorithm to enhance sea ice concentration estimates from radiometric brightness temperatures. St. Germain, K.M., et al. [1992,eng] 50-3564
- Analyzing the accuracy of calculating the surface layer temperature of the Barents Sea. Garbuzov, A.V., [1992,rus] 50-1268
- Application of pipe temperature simulator for Norman Wells oil pipeline. Nixon, J.F., et al. [1996,eng] 50-4306
- Arctic process and climate studies with the TOVS satellite sounder. Francis, J.A., [1994,eng] 50-684
- Assessment of global climate model simulations of arctic air temperatures. Tao, X., et al. [1996,eng] 50-5532
- Automated nowcasting model of road surface temperature and state for winter road maintenance. Shao, J., et al. [1996,eng] 50-6571
- Boreal forest and the polar front. Pielke, R.A., et al. [1995,eng] 50-2847

- Calibration of a small, low-cost thermal infrared radiometer. Rapier, C.B., et al. [1996,eng] 50-6623
- Case study of turbulent parameters during the antarctic winter. Yagüe, C., et al. [1995,eng] 50-1339
- Climate simulations with a global atmosphere-ocean model. pt.1. Lunkeit, F., et al. [1996,eng] 50-4090
- Climatic features near the Tanggula Pass in the centre of the Tibetan Plateau. Zhang, Y.S., et al. [1995,eng] 50-4513
- Coherent observation operators for surface data assimilation with application to snow depth. Urban, B., [1996,eng] 50-3008
- Cold tolerance in tropical alpine plants. Beck, E., [1994,eng] 50-3048
- Comparing simulated glacial climate and paleodata: a reexamination. Broccoli, A.J., et al. [1996,eng] 50-4398
- Danger by the numbers—meaningful cold weather indicators. Shacham, M., et al. [1995,eng] 50-1646
- Data filtering for thermal mapping of road surface temperatures. Shao, J., et al. [1995,eng] 50-775
- Decadal oscillations driven by the annual cycle in a zonally-averaged coupled ocean-ice model. Yang, J.Y., et al. [1996,eng] 50-3069
- Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al. [1996,eng] 50-4766
- ECMWF analyses and predictions of the surface climate of Greenland and Antarctica. Genhoun, C., et al. [1995,eng] 50-1327
- Eddy formation in the polar frontal zone of the Barents Sea. Kostianoi, A.G., et al. [1992,rus] 50-1262
- Effect of color and texture on the surface temperature of asphalt concrete pavements. Berg, R.L., [1985,eng] 50-4362
- Effect of microclimate on road superstructures. Final report. Dysli, M., et al. [1986,fre] 50-3320
- Effect of sea ice frost flowers on infrared surface observations. Martin, S., et al. [1996,eng] 50-5858
- Effects of solar radiation variations on ice age initiation. Ledley, T.S., et al. [1995,eng] 50-1254
- Energy-balance model of lake-ice evolution. Liston, G.E., et al. [1995,eng] 50-457
- Eocene continental climates and latitudinal temperature gradients. Greenwood, D.R., et al. [1995,eng] 50-1808
- European paleoclimatic variations inferred from Greenland ice core isotope analysis. Hafidason, H., et al. [1995,eng] 50-2528
- Experimental closure of the heat and mass transfer theory of spheroidal hailstones. Greenan, B.J.W., et al. [1995,eng] 50-2117
- Experimental study of the thermal regime of soils in the arctic regions of Western Siberia. Pavlov, A.V., et al. [1996,rus] 50-6388
- Forecasting earth surface temperature for the optimal application of frost protection methods. Krasovitski, B., et al. [1996,eng] 50-5021
- Functional significance of inflorescence pubescence in tropical alpine species of *Puya*. Miller, G.A., [1994,eng] 50-3063
- General circulation (GCM) modelling of palaeoclimates: a critique. Street-Perrott, F.A., [1991,eng] 50-3303
- Greenland paleotemperatures derived from ice core isotope profiles. Johnsen, S.J., et al. [1995,eng] 50-2027
- Handwarmers benefit young citrus trees during freezes. Parsons, L.R., et al. [1995,eng] 50-872
- Heat budgets of the Arctic Ocean and Nordic Seas. Simonsen, K., et al. [1996,eng] 50-4298
- Heat flux from leads in pack ice from a Landsat TM image. Lindsay, R.W., [1994,eng] 50-5179
- High-latitude climate change with an atmospheric coupled sea ice model. Washington, W.M., et al. [1996,eng] 50-6055
- Hydrologic cycle parameterization for energy balance climate models. Chu, S.P., et al. [1995,eng] 50-587
- Ice sheets, climate change and sea level. Drewry, D., [1996,eng] 50-3411
- Ice-sheet growth and high-latitudes sea-surface temperature. Berger, A., et al. [1996,eng] 50-5862
- Impact of fires on mountain sod-taiga soils under larch forests in Mongolia. Krasnoshchekov, I.U.N., [1995,eng] 50-2715
- Interannual climate variability and snowpack in the western United States. Cayan, D.R., [1996,eng] 50-5529
- Interdecadal climate variability in the subpolar North Atlantic. Wohleben, T.M.H., et al. [1995,eng] 50-2743
- Investigations of air-sea interactions carried out during the TRANSDRIFT II Expedition. Afanas'eva, I.U., et al. [1995,eng] 50-2060
- Mean annual air temperature trends since 1904 in the South Shetland Islands. Han, J.K., et al. [1995,chi] 50-5639
- Measuring salt's effectiveness in New York. Hart, R.D., et al. [1995,eng] 50-1560
- Meltwater event in the North Atlantic during last glacial maximum. Seidov, D., et al. [1996,eng] 50-6217
- Method and system for detecting potential icy conditions on roads. Rendon, E., [1995,eng] 50-3461
- Midge emergence during thaw cycles of a subalpine lake. Sherk, T., et al. [1996,eng] 50-4504
- Model of Northern Hemisphere glaciation. Dong, B.W., et al. [1995,eng] 50-1328
- Modeling the surface heat flux response to long-lived SST anomalies in the North Atlantic. Power, S.B., et al. [1995,eng] 50-639
- Natural orthogonal components of winter anomalies in the surface air temperature field. Vangengeim, T.G., et al. [1990,rus] 50-332

- Near-infrared absorption coefficients of solid nitrogen as a function of temperature. Tryka, K.A., et al. [1995,eng] 50-1078
- New formulation for the Bowen ratio over saturated surfaces. Andreas, E.L., et al. [1996,eng] 50-6570
- Paleoceanographic surface water variations derived from ice-rafted sediments. Maslin, M.A., et al. [1995,eng] 50-565
- Paleoclimate data constraints on climate sensitivity: the paleocalibration method. Covey, C., et al. [1996,eng] 50-4150
- Páramo microclimate and leaf thermal balance of Andean giant rosette plants. Meinzer, F.C., et al. [1994,eng] 50-3046
- Plume of the Yukon River in relation to the oceanography of the Bering Sea. Dean, K.G., et al. [1989,eng] 50-3933
- Precursory signals associated with the interannual variability of the Asian summer monsoon. Yang, S., et al. [1996,eng] 50-5530
- Prospects for using solar energy technology in Transbaikalia. Zhelezniak, I.I., et al. [1993,rus] 50-110
- Relationship between temperature and glacier melting with middle troposphere temperature. Volkova, M.V., et al. [1973,rus] 50-433
- Role of air-sea heat flux in Newfoundland Shelf sea temperature variability. Umoh, J.U., et al. [1995,eng] 50-4209
- Satellite remote sensing of the Arctic Ocean and adjacent seas. Comiso, J.C., [1995,eng] 50-1160
- Sea ice variations under doubled atmospheric carbon dioxide. Timbal, B., et al. [1995,eng] 50-2734
- Sensitivity of numerical prognoses to antarctic sea ice distribution. Watkins, A.B., et al. [1995,eng] 50-2111
- Simulation of climatic model of global snow cover evolution. Douville, H., et al. [1995,eng] 50-2736
- Snow accumulation rate from synthesis of microwave and altimeter data. Davis, C.H., [1995,eng] 50-162
- Snow evaporation from Spitsbergen tundra surfaces. Takeuchi, Y., et al. [1995,eng] 50-3250
- Space-time distribution of temperature inversions in the arctic atmospheric boundary layer. Nagurnyi, A.P., [1995,eng] 50-2728
- State of SO₂ on Io's surface. Kerton, C.R., et al. [1996,eng] 50-4257
- Subgrid parameterization of surface heat and momentum fluxes over polar oceans. Vihma, T., [1995,eng] 50-2110
- Surface temperature from ERS-1 ATSR infrared thermal satellite data in polar regions. Stroeve, J., et al. [1996,eng] 50-6568
- Temperature conditions in Iceland and the North Atlantic, 1901-1990. Einarsson, M.A., [1993,eng] 50-4770
- Thermodynamic model of lake ice formation and melting. Dmitriev, N.V., [1995,eng] 50-5480
- Time series in geocryology. Mel'nikov, V.P., et al. [1992,rus] 50-134
- Validation of climate model for snow cover variations. Douville, H., et al. [1995,eng] 50-2735
- Surface tension**
See [also]: Interfacial tension
- Surface waters**
Chemical correlates of Hg and methyl-Hg in northern Wisconsin lake waters under ice-cover. Watras, C.J., et al. [1995,eng] 50-2125
- Climatic influences on Chinese water resources. Shi, Y.F., et al. [1995,eng] 50-4231
- Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996,rus] 50-6382
- Differentiation of Ob and Yenisei waters in the Kara Sea by alkalinity and silicate. Stunzhas, P.A., [1995,eng] 50-6688
- Dissolved inorganic carbon in the Kara Sea and in the mouths of the Ob and Yenisey Rivers. Makkaveev, P.N., [1995,eng] 50-3533
- Effect of the geographic environment on the occurrence of surface waters from a terraced tundra plain. Szczepanik, W., [1989,pol] 50-2918
- Formation and evolution of the surface mixed layer and halocline of the Arctic Ocean. Rudels, B., et al. [1996,eng] 50-5261
- Inexpensive water collectors for study of surface water acidification during snowmelt. Gaskin, G.J., et al. [1995,eng] 50-1569
- Major, minor, and trace element chemistry of surface waters in the Everest region of Nepal. Reynolds, B., et al. [1995,eng] 50-2434
- Odor removal processes for ice-covered river runoff. Hrudye, S.E., et al. [1995,eng] 50-1524
- Organic sedimentation in an arctic delta. Peulvé, S., et al. [1996,eng] 50-5819
- Plankton dynamics in the Barents Sea marginal ice zone. Hansen, B., et al. [1996,eng] 50-3528
- Preliminary considerations for runoff modelling in GCMs. Versegny, D., [1994,eng] 50-5701
- Snowmelt induced chemical changes in seven streams in the Sierra Nevada, California. Melack, J.M., et al. [1995,eng] 50-2414
- Snowpack controls on soil nitrogen dynamics in the Colorado alpine. Brooks, P.D., et al. [1995,eng] 50-2420
- Surficial weathering fluxes and their geochemical controls. Lerman, A., [1994,eng] 50-1238
- Taxonomic notes on recent benthic Foraminifera from Nansen Basin, Arctic Ocean. Wollenburg, J., [1992,ger] 50-3334
- Technogenic naled formation around the city of Anadyr'. Kotov, A.N., [1996,rus] 50-6854
- Thermal Orvin spring below Mount Gnällberget (Hornsund, Spitsbergen). Pociński-Karteczka, J., [1989,eng] 50-2922

Surfactants

- Thermodynamic model of lake ice formation and melting. Dmitriev, N.V., [1995,eng] 50-5480
 Water resources data for Alaska, water year 1994. Bigelow, B.B., et al., [1995,eng] 50-2169

Surfactants

- Cratering phenomena on aircraft anti-icing films. La Due, J., et al., [1996,eng] 50-4219
 Developing the U.S. Coast Guard's Airborne Dispersant Delivery System capability. Bleicher, D., et al., [1995,eng] 50-5722
In-situ burning of Alaskan oils and emulsions. Buist, I., et al., [1996,eng] 50-5558
 Migrating corrosion inhibitors for reinforced concrete. Miksic, B., et al., [1996,eng] 50-5947
 Subzero temperature water behavior in nonionic microemulsions. Pt.1. Garti, N., et al., [1996,eng] 50-3409
 Use of dispersants in broken ice. Brown, H.M., et al., [1996,eng] 50-5553
 Use of surfactants in oil spill remediation in cold regions. Tumeo, M.A., et al., [1995,eng] 50-5723

Surging glaciers

See [also]: Glacier surges

Surveying

- Surveying work in Mount Xixia Bangma region. Zhou, J.Q., et al., [1982,chi] 50-6594

Surveys

- Shoreline oiling conditions in Prince William Sound following the Exxon Valdez oil spill. Neff, J.M., et al., [1995,eng] 50-3923
 See [also]: Aerial surveys; Electromagnetic prospecting; Exploration; Geodetic surveys; Geological surveys; Geophysical surveys; Glacier surveys; Ice surveys; Infrared reconnaissance; Magnetic surveys; Mapping; Oceanographic surveys; Permafrost surveys; Photogrammetric surveys; Photographic reconnaissance; Route surveys; Seismic surveys; Site surveys; Snow surveys; Soil surveys; Topographic surveys

Survival

- Avalanche book. Armstrong, B.R., et al., [1992,eng] 50-863
 Avalanche survival chances. Burtscher, M., [1994,eng] 50-3908
 Avalanche survival chances. Falk, M., et al., [1994,eng] 50-2531
 Effect of freezing of water samples on viable counts of environmental mycobacteria. Iivanainen, E., et al., [1995,eng] 50-1953
 Influence of ocean dredging on Barents Sea biota. Matishov, G.G., et al., [1995,eng] 50-3062
 Survival and regeneration of dormant silver birch buds stored at super-low temperatures. Rynänen, L., [1996,eng] 50-6745
 UV-B-tolerance of alpine and arctic *Daphnia*. Zellmer, I.D., [1995,eng] 50-1972
 See [also]: Cold weather survival; Viability

Suspended pipelines

- Adverse telluric effects on northern pipelines. Seager, W.H., [1991,eng] 50-1761
 Ardian field flows despite weather, terrain. Britton, M.W., et al., [1995,eng] 50-4396
 Field-tested model for freeze protection of multiphase pipelines in arctic operations. Eager, K., [1991,eng] 50-1769
 Relationship of telluric currents to the corrosion of warm arctic pipelines. Sackinger, W.M., [1991,eng] 50-1725

Suspended sediments

- ²³⁸Th as an indicator of particulate fluxes in the Kara Sea. Kuptsov, V.M., et al., [1995,eng] 50-3544
 Antarctic planktonic biomass seasonal variations. Skerratt, J.H., et al., [1995,eng] 50-1118
 Application of satellite visible band data to high latitude oceans. Ahlins, K., et al., [1989,eng] 50-3934
 Basal water pressure as indicator of subglacial drainage patterns. Stone, D.B., et al., [1996,eng] 50-6090
 Boundary layer characteristics of the continental margin of the western Barents Sea. Thomsen, L., et al., [1994,eng] 50-1245
 Chemical composition of suspended sediments in the Lena River and its mixing zone. Gordeev, V.V., et al., [1995,eng] 50-2081
 Chernobyl fallout in Bering Sea sediments. Kusakabe, M., et al., [1988,eng] 50-4635
 Chlorophyll *a*, suspended organic carbon and silicon in the sea ice of Admiralty Bay. Melnikov, I.A., [1993,rus] 50-920
 Chlorophyll fluorescence in the Laptev Sea. Anoshkin, A.F., et al., [1995,eng] 50-2083
 Clay mineral signature of the NW Atlantic Boundary Undercurrent. Fagel, N., et al., [1996,eng] 50-4822
 Current water quality in Cook Inlet, Alaska, study. University of Alaska. Environment and Natural Resources Institute, [1995,eng] 50-4400
 Depositional sequences in glaciolacustrine deltas. Gustavson, T.C., et al., [1975,eng] 50-4818
 Diatom, chrysophyte and protozoan distributions along a latitudinal transect in Fennoscandia. Pienitz, R., et al., [1995,eng] 50-4741
 Discharge and fluvial sediment transport in a semi-arid Andean catchment. Barsch, D., et al., [1994,eng] 50-1544
 Dissolution kinetics, subglacial pathways and solute content of alpine meltwater. Collins, D.N., [1995,eng] 50-6045
 Dissolution kinetics, subglacial pathways and solute content of meltwater. Collins, D.N., [1995,eng] 50-3124

- Distribution of pesticide residues in arctic coastal ecosystems. Bright, D.A., et al., [1995,eng] 50-4747
 Distribution of river water and suspended sediments in the river deltas of the Laptev Sea. Ivanov, V.V., et al., [1995,eng] 50-2080
 Distribution of trace elements in the Laptev Sea. Hölemann, J.A., et al., [1995,eng] 50-2098
 Effect of river-ice break-up on suspended sediment and select trace-element fluxes. Milburn, D., et al., [1994,eng] 50-5698
 Erosion rates and sediment yields of glaciers. Bogen, J., [1996,eng] 50-6239
 Factors controlling suspended sediment transport in Himalayan glacier meltwaters. Hasnain, S.I., [1996,eng] 50-5688
 Fluvial sediment transfer in the Central Alps. Höfner, T., [1993,ger] 50-3335
 Flux and preservation of organic carbon in Baffin Island fjords. Syvitski, J.P.M., et al., [1990,eng] 50-924
 Fresh water in Svalbard fjord ecosystems. Węśławski, J.M., et al., [1995,eng] 50-4137
 Geochemistry of Lena River suspended sediments. Rachold, V., [1995,eng] 50-2095
 Glaciomarine deposits in southwestern Sweden. Stevens, R.L., [1990,eng] 50-930
 Hydrochemical characteristics of the Kara Sea. Makkaev, P.N., et al., [1995,eng] 50-3532
 Hydrogeochemistry of Fraser River, British Columbia. Cameron, E.M., [1996,eng] 50-5815
 Hydrology of a polythermal glacier, Erikbreen, northern Spitsbergen. Vane, G., et al., [1995,eng] 50-3150
 Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., [1995,eng] 50-2480
 Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., et al., [1995,eng] 50-4039
 Impurities in surface meltwater from a Tian Shan glacier. Goto-Azuma, K., et al., [1995,eng] 50-613
 Influence of ocean dredging on Barents Sea biota. Matishov, G.G., et al., [1995,eng] 50-3062
 Interaction between subglacial sediment and meltwater. Collins, D.N., [1996,eng] 50-6265
 International gaging station established on the Alsek River. Desch, N., et al., [1995,eng] 50-3752
 Isotopic chronologies of Chukchi Sea continental shelf sediment fluxes. Baskaran, M., et al., [1995,eng] 50-1805
 Laptev Sea organic carbon surface sediments. Stein, R., et al., [1995,eng] 50-2097
 Links between proglacial stream sediments and glacier motion. Willis, L.C., et al., [1996,eng] 50-6091
 Lumped-element model for subglacial transport of solute and suspended sediment. Clarke, G.K.C., [1996,eng] 50-6254
 Marine record of the Russell Fjord outburst flood, Alaska. U.S.A. Cowan, E.A., et al., [1996,eng] 50-6260
 Mass exchange between meltwater streams and proglacial deposits. Holmlund, P., et al., [1996,eng] 50-6241
 Meltwater drainage patterns from alpine glaciers. Collins, D.N., [1995,eng] 50-2430
 Mercury and plastic in suspended Arctic Ocean sediment. Joins, C.R., et al., [1995,eng] 50-1971
 Organic sedimentation in an arctic delta. Peulvé, S., et al., [1996,eng] 50-5819
 Particle fluxes in the Kara Sea and Ob and Yenisey estuaries. Lisitsyn, A.P., et al., [1995,eng] 50-3543
 Particle interaction in fjord suspended sediment. Syvitski, J.P.M., et al., [1981,eng] 50-3764
 Particulate organic matter in Terra Nova Bay in summer 1990. Fabiano, M., et al., [1996,eng] 50-3702
 Pelagic processes in the Norwegian and Greenland Seas. von Bodungen, B., et al., [1995,eng] 50-746
 Phytoplankton seasonal bloom shift in Barents Sea ice. Strass, V.H., et al., [1996,eng] 50-6721
 Plume of the Yukon River in relation to the oceanography of the Bering Sea. Dean, K.G., et al., [1989,eng] 50-3933
 Predicting sediment load of Swiss rivers. Hunziker, R.P., [1995,ger] 50-4173
 Proglacial fluvial and lacustrine environments. Church, M., et al., [1975,eng] 50-4808
 Reassessment of the Eurasian river input of water, sediment, major elements, and nutrients to the Arctic Ocean. Gordeev, V.V., et al., [1996,eng] 50-5693
 Recent fluvial sediment budgets in glacial and periglacial environments, NW Spitsbergen. Barsch, D., et al., [1994,eng] 50-1584
 Research on the concentration of suspended matter in the rivers of Kaffiory (NW Spitsbergen). Pietrucie, C., et al., [1989,pol] 50-2917
 Role of the large-scale Arctic Ocean circulation in the transport of contaminants. Schlosser, P., et al., [1995,eng] 50-4556
 Runoff of suspended sediments in the Dzhanqat Glacier basin in summer 1970. Diurgerov, M.B., et al., [1972,rus] 50-554
 Russian-German cooperation: Laptev Sea system. Kassens, H., et al., [1995,eng] 50-2059
 Satellite mapping of algal blooms and sea ice in the North Sea and Usselmere. Roozekrans, H., [1994,eng] 50-1517
 Seasonal variations in arctic glacier sediment transport. Hodgkins, R., [1996,eng] 50-6253
 Sediment discharge from an Alaskan surging glacier. Merrand, Y., et al., [1996,eng] 50-6266
 Sediment transport and discharge in a high arctic catchment (Liedfjorden, NW Spitsbergen). Barsch, D., et al., [1994,eng] 50-1545
 Sediment transport in glacial meltwater streams. Østrem, G., [1975,eng] 50-4809

- Sedimentary environment of the Laptev Sea: preliminary results of the TRANSDRIFT II Expedition. Dehn, J., et al., [1995,eng] 50-2100
 Sedimentation and mixing rates of radionuclides in Barents Sea sediments off Novaya Zemlya. Smith, J.N., et al., [1995,eng] 50-4561
 Sedimentation and physical limnology in proglacial Malaspina Lake, southeastern Alaska. Gustavson, T.C., [1975,eng] 50-4817
 Sedimentation in glacier-fed Peyto Lake. Chikita, K., [1992,eng] 50-6642
 Solid phase sedimentation in the Barents Sea. Hulth, S., et al., [1996,eng] 50-6723
 Stable carbon isotope ratios in the waters of the Laptev Sea/Sep. 94. Erlenkeuser, H., et al., [1995,eng] 50-2082
 Studies of clean and sediment-laden ice in the Laptev Sea. Eicken, H., et al., [1995,eng] 50-2071
 Studies on Holocene fluvial geomorphodynamics on the upper Oberweser. Thomas, J., [1993,ger] 50-2769
 Study of the calcareous microfauna from Laptev Sea sediments. Bauch, H.A., et al., [1995,eng] 50-2102
 Surface sediment mineralogy of the Laptev Sea. Wahner, M., [1995,eng] 50-2099
 Suspended particulates and plankton during retreat of the marginal ice zone in the Bellingshausen Sea. Robins, D.B., et al., [1995,eng] 50-1026
 Suspended sediment weathering in alpine glacial meltwater. Brown, G.H., et al., [1996,eng] 50-6088
 Suspended sediments and organic carbon in Glacier Bay fjords. Cowan, E.A., [1995,eng] 50-3734
 Taxonomic notes on recent benthic Foraminifera from Nansen Basin, Arctic Ocean. Wollenburg, J., [1992,ger] 50-3334
 Treeline/midge correlation, Northwest Territories, Canada. Walker, I.R., et al., [1995,eng] 50-3326
 Ultraviolet radiation effects on arctic lake water organic chemistry. Scully, N.M., et al., [1996,eng] 50-5820
 Use of geosynthetics to prevent waterfowl white phosphorus poisoning. Henry, K.S., et al., [1995,eng] 50-2865
 Vertical particle flux on the shelf off northern Spitsbergen, Norway. Andreassen, I., et al., [1996,eng] 50-6566
- Swamps**
 Accumulation rates of carbon in mires in Finland and implications for climate change. Tolonen, K., et al., [1995,eng] 50-6078
 Biomass and production of vascular plants in a mesotrophic fen. Saarinen, T., et al., [1994,eng] 50-3215
 Changes in the level of industrial air pollutants in peat bogs in the cryolithozone. Evseev, A.V., et al., [1996,rus] 50-6853
 CO₂ fluxes in peatlands under varying temperature and moisture conditions. Silvola, J., et al., [1994,eng] 50-3218
 Deposits from the Warta Glaciation against a background of Pleistocene deposits. Lisicki, S., [1993,pol] 50-3663
 Developmental conditions of the Farnham bog, Québec. Lavoie, M., et al., [1995,fre] 50-4885
 Differences in carbon accumulation of two cut-over peatlands in Finland. Roderfeld, H., et al., [1994,eng] 50-3226
 Ecological aspects of the development of flat-polygonal bogs of Yamal. Kanev, V.V., et al., [1996,eng] 50-6580
 Effect of drainage intensity and fertilization on peat carbon compounds and their mineralization. Karsisto, M., et al., [1994,eng] 50-3225
 Effect of forest drainage on the carbon balance of peatland ecosystems. Laine, J., et al., [1994,eng] 50-3224
 Emissions of methane and nitrogen oxides from peatland ecosystems. Martikainen, P.J., et al., [1994,eng] 50-3220
 Fine root production and decomposition on drained peatlands. Finér, L., et al., [1994,eng] 50-3217
 Initial analyses of Eagle River Flats hydrology and sedimentology. Fort Richardson, Alaska. Lawson, D.E., et al., [1995,eng] 50-392
 Leaching of organic carbon and nitrogen from forested catchments. Kortelainen, P., et al., [1994,eng] 50-3221
 Myth of the classic hydrosere model of bog succession. Klinger, L.F., [1996,eng] 50-4331
 Palaeoecology of a cushion bog, southern Tierra del Fuego. Heusser, C.J., [1995,eng] 50-2726
 Paleocology of Swedish bogs. Segerström, U., et al., [1996,eng] 50-4373
 Peat formation in the tundra of the Amguema valley and the Anadyr' lowland. Smirnov, I.P., [1992,eng] 50-3435
 Rate of carbon accumulation in boreal mires. Tolonen, K., et al., [1994,eng] 50-3223
 Response of leaching from mire ecosystems to changing climate. Sallantausta, T., [1994,eng] 50-3222
 Role of above-ground biomass in carbon cycling in drained peatland ecosystems. Laiho, R., et al., [1994,eng] 50-3216
 Russian soil geography as indicated by a new detailed map. Andronikov, V.L., et al., [1995,eng] 50-3873
 Some aspects of the protection of water-bog areas in European northeastern USSR. Mineev, I.U.N., [1991,rus] 50-1291
 Stratigraphy and palynology of boreal peat in French bogs. Juvigné, E., et al., [1995,fre] 50-4879
 Structure and dynamics of the plant cover of flat hummocky Siberian bogs. Kirpotin, S.N., et al., [1995,rus] 50-5674
 Vegetation and ecology of tropical mires in the high Andes of northern Chile. Ruhsatz, B., [1995,ger] 50-4530
- Sweden**
 Arctic wind abrasion in a former permafrost environment of southern Scandinavia. Svensson, H., [1990,eng] 50-1664
 Baltic Ice Lake. Brunnberg, L., [1995,eng] 50-513

Sweden—Abisko

- Cold recycling of reclaimed asphalt concrete. Test road in Värmland—three years experience. Jacobson, T., [1995,sw] 50-950
- Early Weichselian interstadial sediments at Härnösand, Sweden. García Ambrosiani, K., et al. [1992,eng] 50-2559
- Effects of deicing salt on vegetation along highways in Sweden. Bäckman, L., et al. [1995,eng] 50-4602
- Estimation of biomass and other characteristics of boreal forest. Häme, T., et al. [1994,eng] 50-3228
- Glacial cirque formation in northern Scandinavia. Richardson, C., et al. [1996,eng] 50-6246
- Glaciomarine deposits in southwestern Sweden. Stevens, R.L., [1990,eng] 50-930
- Glacio-isostatic implications of Swedish Holocene shore displacement. Berghund, M., [1995,eng] 50-3367
- Glaciological station in Swedish Lapland. Schytt, V., [1962,sw] 50-3944
- Holocene debris-flow activity in northern Sweden. Jonasson, C., [1993,eng] 50-837
- Hydrological processes contributing to nitrogen leaching. Lepistö, A., [1996,eng] 50-5599
- Luminescence dating of the deglaciation in northern Sweden. Lundqvist, J., et al. [1995,eng] 50-515
- Micrometeorological effects on alpine vegetation reproduction. Bergman, P., et al. [1996,eng] 50-5494
- Nuclear energy for district heating. Bodh, R.M., [1984,eng] 50-3163
- Paleoclimatic implications of Swedish lake-level fluctuations. Almqvist-Jacobson, H., [1995,eng] 50-2716
- Paleoecological study of forest lines in southern Sweden. Björkman, L., [1995,eng] 50-6080
- Pleistocene-Holocene transition in Sweden. Lord, A.R., [1990,eng] 50-931
- Potential ecological impacts of climate change in the Alps and Fennoscandian mountains. Guisan, A., ed, et al. [1995,eng] 50-1002
- Quaternary history of Scandinavia. Donner, J., [1995,eng] 50-822
- Radioactive dating of pollen deposits in a Swedish lake. Regnell, J., [1992,eng] 50-2562
- Radiocarbon dating of the Goti-Finiglacial boundary of the Swedish Time Scale. Brunnberg, L., et al. [1992,eng] 50-2551
- Report on heavy metals. Melnikov, S.A., [1991,eng] 50-3419
- Research concerning ice conditions in fairways—Swedish activities. Lindmark, R., et al. [1984,eng] 50-3165
- Revision of the lateglacial Swedish varve chronology. Strömberg, B., [1990,eng] 50-1791
- Snow damage to spruce trees during a fertilization experiment. Vålinger, E., et al. [1996,eng] 50-4330
- Snowmobile injuries in Kiruna, northern Sweden. Sundström, I., et al. [1994,eng] 50-602
- Solifluction and climatic variation in the Holocene. Frenzel, B., ed, et al. [1993,eng] 50-823
- Solifluction in the Swedish mountains. Ulfstedt, A.C., [1993,eng] 50-840
- Swedish Forest Information Atlas. Rosengren, M., et al. [1992,eng] 50-623
- Thermal regime of ice covered Swedish lakes. Bengtsson, L., et al. [1994,eng] 50-5696
- Ventifacts as palaeo-wind indicators in southern Scandinavia. Schlyter, P., [1996,eng] 50-6698
- Wilderness quality mapping in the Euro-Arctic Barents region. Husby, E., et al. [1995,eng] 50-3171
- Would a helmet law for snowmobile riders reduce head injuries. Björnstig, U., et al. [1994,eng] 50-603
- Younger Dryas ice-marginal zone in Sweden. Lundqvist, J., [1995,eng] 50-512
- Sweden—Abisko**
- Case studies of geoprocesses and environmental change in mountains of northern Sweden. Rapp, A., [1995,eng] 50-4187
- Spectral quality and absorption of solar radiation in a mountain birch forest, Abisko, Sweden. Övsted, M., et al. [1995,eng] 50-2813
- Sweden—Abisko Mountains**
- Slope processes and climate in the Abisko Mountains, northern Sweden. Rapp, A., et al. [1993,eng] 50-836
- Sweden—Dalsarna**
- Paleoecology of Swedish bogs. Segerström, U., et al. [1996,eng] 50-4373
- Sweden—Kärkevagge**
- Geochemical process responses to potential Scandinavian climatic change. Dixon, J.C., et al. [1995,eng] 50-4194
- Lichenometric analysis of the Kärkeppe slush-avalanche fan, Kärkevagge, Sweden. Bull, W.B., et al. [1995,eng] 50-4191
- Sweden—Kiruna**
- Interpretation of nitric oxide profile observed in January 1992 over Kiruna. Kondo, Y., et al. [1996,eng] 50-6637
- Sounding of arctic polar stratospheric clouds, 1990. Hofmann, D.J., et al. [1990,eng] 50-4731
- Sweden—Lapland**
- Postglacial microbiological weathering of granite rocks moutonnées. André, M.F., [1995,eng] 50-4832
- Snowmelt and slush torrents in Swedish Lapland. Gude, M., et al. [1995,eng] 50-4188
- Sweden—Pirttimysvuoma**
- Vascular flora of Pirttimysvuoma, a tundra-like area in northern Sweden. Sjörs, H., [1995,sw] 50-1530

- Sweden—Rostu**
- Relict sorted patterned ground in Rostu, northernmost Sweden. Kling, J., [1996,eng] 50-5581
- Sweden—Scandes Mountains**
- Decline of fauna in small streams in the Swedish mountain range. Olofsson, E., et al. [1995,eng] 50-4078
- Sweden—Storglaciären**
- Mass exchange between meltwater streams and proglacial deposits. Holmlund, P., et al. [1996,eng] 50-6241
- Tracer experiments to determine subglacial pressurized flow in Storglaciären. Kohler, J., [1995,eng] 50-445
- Water pressure and basal sliding on Storglaciären, northern Sweden. Jansson, P., [1995,eng] 50-446
- Switzerland**
- Acoustic detection of avalanches at the Sionne-Anzère site, Valais, Switzerland. Chritin, V., et al. [1995,fr] 50-4680
- Areal extent and frontal elevations of Swiss glaciers, 1876-1957. Mercanton, P.L., [1958,eng] 50-5744
- Avalanche activity during major avalanche events, a case study for hydroelectric reservoirs. Schaer, M., [1995,eng] 50-4660
- Cation trace analysis of snow and firn samples from high-alpine sites by ion chromatography. Döschner, A., et al. [1995,eng] 50-594
- Climate change impacts on snow cover: modelling case studies in Switzerland and the French Western Alps. Baumgartner, M.F., et al. [1995,eng] 50-1013
- Comparison of two avalanche forecasting models. Weiler, C., [1995,eng] 50-1060
- Dissolution kinetics, subglacial pathways and solute content of alpine meltwater. Collins, D.N., [1995,eng] 50-6045
- Dissolution kinetics, subglacial pathways and solute content of meltwater. Collins, D.N., [1995,eng] 50-3124
- Geological and geophysical exploration of alpine and peri-alpine glacial valleys. Pugin, A., et al. [1995,eng] 50-3315
- Glaciers of the Swiss Alps 1975/76 and 1976/77. Kasser, P., et al. [1983,ger] 50-3845
- Glaciers of the Swiss Alps 1977/78 and 1978/79. Kasser, P., et al. [1986,ger] 50-3846
- Guidelines for avalanche barriers in the starting zone. BUWAL Bundesamt für Umwelt, Wald und Landschaft, (Federal Office for Environment, Forest and Landscape). WSL, Eidgenössische Forschungsanstalt für Wald, Schnee und Landschaft (Federal Research Laboratory for Forest, Snow and Landscape), [1990,ger] 50-236
- Hailstorms in Switzerland: left movers, right movers, and false hooks. Houze, R.A., Jr., et al. [1993,eng] 50-1444
- Hydrologic bibliography of Switzerland for 1994. Sevrük, B., ed, et al. [1994,ger] 50-4596
- Hydrological bibliography of Switzerland for 1992. Sevrük, B., ed, et al. [1992,ger] 50-5028
- Mineral dust record in a high altitude alpine glacier (Colle Gnifetti, Swiss Alps). Wagenbach, D., et al. [1989,eng] 50-5411
- Nature of hydroelectric power exploitation. Vischer, D., [1996,ger] 50-4175
- NXLOG model—local avalanche forecasting in Switzerland: strategy and means. Bolognesi, R., et al. [1995,ita] 50-2596
- Permafrost and glaciers of Upper Engadin, Switzerland. Hölzle, M., [1994,ger] 50-2771
- Predicting sediment load of Swiss rivers. Hunziker, R.P., [1995,ger] 50-4173
- Reinforcing the permafrost foundation of the Gornergrat Observatory. Vonder Mühl, D., et al. [1995,ger] 50-4174
- Soil frost heave and bearing tests. Lausanne, Switzerland. Federal Institute of Technology. Laboratory of Soil Mechanics. (École Polytechnique Fédérale de Lausanne. Laboratoire de mécanique des sols) (Eidgenössische Technische Hochschule), [1988,fr] 50-1669
- Summer and autumn avalanches: a neglected hazard. Zuanon, J.P., [1995,fr] 50-4669
- Survey of calving causing flood waves at the Grubengletscher. Haeblerli, W., [1975,ger] 50-3952
- Swiss concept for forecasting the danger of avalanches. Ammann, W.J., [1995,fr] 50-4659
- Topographic mapping of Aletsch Glacier. Finsterwalder, R., [1961,ger] 50-5740
- Switzerland—Alps**
- Alpine glaciers in the Little Ice Age—catalogue and C¹⁴ documentation. Zumbühl, H.J., et al. [1990,ger] 50-3398
- Alpine glaciers in the Little Ice Age. Zumbühl, H.J., et al. [1988,ger] 50-3397
- Asymmetric diurnal temperature change in the alpine region. Weber, R.O., et al. [1994,eng] 50-4790
- Avalanche survival chances. Burscher, M., [1994,eng] 50-3908
- Avalanche survival chances. Falk, M., et al. [1994,eng] 50-2531
- Basal ice facies and their formation in the western Alps. Hubbard, B., et al. [1995,eng] 50-2805
- Glaciers, snow and ice—dictionary of glaciology, snow and avalanche research in Switzerland. Ziehr, W., ed, [1993,ger] 50-3385
- Gravimetric investigation of permafrost on the Blockglaciers Murtel-Corvatsch (Oberengadin). Klingele, E., et al. [1993,ger] 50-4909
- Guide to interpretation of Swiss avalanche bulletins. Meister, R., ed, [1993,fr] 50-5075
- Holocene solifluction in the Swiss Alps: dating and climatic implications. Gamper, M., [1993,eng] 50-824
- Not modelling but drowning. Edwards, R., [1995,eng] 50-1965

Synoptic meteorology

- Pleistocene treeline fluctuation in the Swiss Alps. Tinner, W., et al. [1996,eng] 50-5487
- Solifluction and climatic variation in the Holocene. Frenzel, B., ed, et al. [1993,eng] 50-823
- Solifluction in the Swiss Alps and Bolivia. Graf, K., [1993,eng] 50-838
- Swiss alpine palaeoclimate during the Holocene: pollen analytical evidence and general features. Burga, C.A., [1993,eng] 50-825
- Tree ring value determination of climatic change in Switzerland. Vogel, R.B., et al. [1996,ger] 50-6714
- Switzerland—Grenzglacier**
- 130 years deposition record of sulfate, nitrate and chloride from a high-alpine glacier. Döschner, A., et al. [1995,eng] 50-4079
- Switzerland—Haut Glacier d'Arolla**
- Climate change in mountain environments. Willis, I., et al. [1995,eng] 50-1522
- Energy balance model for a small valley glacier, pt.1. Arnold, N.S., et al. [1996,eng] 50-4893
- Numerical landscapes: static, kinematic and dynamic process-form relations. Richards, K., et al. [1995,eng] 50-4153
- Subglacial chemical erosion in a Swiss mountain glacier. Brown, G.H., et al. [1996,eng] 50-6236
- Subglacial hydrology of a Swiss glacier. Hubbard, B.P., et al. [1995,eng] 50-1878
- Subglacial meltwater composition sampled through boreholes. Lamb, H.R., et al. [1995,eng] 50-2433
- Tracer study of glacial drainage variations in Switzerland. Niennow, P., et al. [1996,eng] 50-5580
- Switzerland—Jungfrau-Joch**
- Saharan dust recorded in Swiss alpine snow cover. Schwikowski, M., et al. [1995,eng] 50-778
- Switzerland—Jura Mountains**
- Holocene subalpine lake fluctuations in France. Magny, M., [1992,eng] 50-2560
- Switzerland—Valais**
- Supraglacial debris transport over time. Whalley, W.B., et al. [1996,eng] 50-6258
- Symposia**
- See [also]: Meetings
- Synoptic meteorology**
- Acoustic sounder measurements of the planetary boundary layer at Maitri, Antarctica. Naithani, J., et al. [1995,eng] 50-4208
- Advances in Qinghai-Xizang Plateau meteorology. Zhang, J.J., et al. [1988,chi] 50-2179
- Aircraft icing over northwest Europe. Ashley, H., [1979,eng] 50-4402
- Arctic Ocean atmospheric boundary layer structure and flow. Nilsson, E.D., [1996,eng] 50-4314
- Atmospheric circulation in the region of Arctowski Station, 1986-1989. Kejna, M., [1993,eng] 50-2204
- Automated aircraft icing forecast technique project report. Mansur, M.V., [1984,eng] 50-4619
- Canadian Atlantic Storms Program: progress and plans of the meteorological component. Stewart, R.E., [1991,eng] 50-4416
- Climate change and GCM simulation of water resources from mountain snowpack. McGinnis, D.L., [1994,eng] 50-6690
- Comments on paper by Dey et al. Ropelewski, C.F., et al. [1984,eng] 50-4916
- Comparison between neural network and statistical snowfall prediction methods. McGinnis, D.L., [1994,eng] 50-4356
- Correlation between atmospheric pressure anomalies and snowpack accumulation. McCabe, G.J., Jr., et al. [1995,eng] 50-1551
- Crop-hail damage in the Midwest corn belt. Hillaker, H.J., Jr., et al. [1985,eng] 50-4592
- Fargo snowstorm of 6-8 January 1989. Weisman, R.A., [1996,eng] 50-6061
- Flow patterns conducive to Wyoming mountain heavy snow. Darrow, M.A., [1995,eng] 50-6685
- Heat budget of a midlatitude squall line and implications for potential vorticity production. Braun, S.A., et al. [1996,eng] 50-5475
- Historical record of blizzards/major snow events in the British Isles, 1880-1989. Wild, R., et al. [1996,eng] 50-3961
- Katabatic winds over an East Antarctic cirque. Jonsson, S., [1995,eng] 50-1338
- Long-range tropospheric transport of pollution aerosols into the Alaskan Arctic. Ratz, W.E., et al. [1984,eng] 50-4722
- Maintenance of the last great ice sheets: a UGAMP GCM study. Hall, N.M.J., et al. [1996,eng] 50-5531
- Mathematical model of synoptic variation in drifting ice cover due to atmospheric factors. Zuev, A.N., [1992,rus] 50-1264
- Measurements of Alaskan spring atmospheric ozone content. Beine, H.J., et al. [1996,eng] 50-6640
- Mesoscale and microscale structure of a severe ice pellet storm. Hanesiak, J.M., et al. [1995,eng] 50-1526
- Mesoscale precipitation structure in winter storms. Ramamurthy, M.K., et al. [1991,eng] 50-4417
- Numerical case study of a polar low in the Labrador Sea. Mailhot, J., et al. [1996,eng] 50-5869
- Numerical simulation of polar lows. Grondas, S., et al. [1995,eng] 50-2525
- Observational study of the katabatic wind confluence zone near Siple Coast, West Antarctica. Bromwich, D.H., et al. [1996,eng] 50-4157
- On the global variation of precipitating layer clouds. Ryan, B.F., [1996,eng] 50-3293
- Origin and structure of a numerically simulated polar low over Hudson Bay. Albright, M.D., et al. [1995,eng] 50-2526

Synthetic aperture radar

Tajikistan—Pamir-Alay

- Precursory signals associated with the interannual variability of the Asian summer monsoon. Yang, S., et al., [1996,eng] 50-5530
- Predicting winter weather. Williams, J., [1995,eng] 50-3686
- Pressure cutoff effects on polar stratospheric chemistry. Cerniglia, M.C., et al., [1995,eng] 50-588
- Production and depletion of supercooled liquid water in a Colorado winter storm. Politovich, M.K., et al., [1995,eng] 50-3560
- Radiometric observations of supercooled liquid water within a split front over Sierra Nevada. Heggli, M.F., et al., [1985,eng] 50-4972
- Radiosonde examination of synoptical scale wind/cloud dynamics. Mace, G.G., et al., [1995,eng] 50-3256
- Relationship of meridional and latitudinal gradients to synoptic processes. Kuznetsov, A.V., et al., [1990,rus] 50-320
- Relationship of tropospheric dry layers to freezing precipitation type. Smith, G., [1995,eng] 50-6684
- Role of January in the character of recent winters in the United States. Diaz, H.F., [1984,eng] 50-4914
- Sensitivity of numerical prognoses to antarctic sea ice distribution. Watkins, A.B., et al., [1995,eng] 50-2111
- Sensitivity of squall-line rear inflow to ice microphysics and environmental humidity. Yang, M.J., et al., [1995,eng] 50-1527
- Snowfall distribution on the seashore of Hokkaido, Japan. Tachibana, Y., [1995,eng] 50-342
- Spring snowpack anomaly patterns and winter climatic variability. British Columbia, Canada. Moore, R.D., et al., [1996,eng] 50-3492
- Study on some kinds of weather systems over and around the Qinghai-Xizang (Tibet) Plateau. Luo, S.W., et al., [1992,chi] 50-2178
- Synoptic approach to forecasting lake-effect snowfall. Ellis, A.W., et al., [1996,eng] 50-6062
- Synoptic climatology of ablation on a New Zealand glacier. Hay, J.E., et al., [1988,eng] 50-2448
- Synoptic-statistical method of forecasting air temperature in the Arctic. Ivanov, V.V., [1990,rus] 50-329
- Temporal and spatial variations in hail in the upper Great Plains and Midwest. Changnon, S.A., Jr., [1984,eng] 50-4497
- Unique aircraft icing event—a case study. Peters, J.L., [1990,eng] 50-4404
- Winter 1994 weather and ice conditions for the Laurentian Great Lakes. Assel, R.A., et al., [1996,eng] 50-3294
- Winter storms over Canada. Stewart, R.E., et al., [1995,eng] 50-1852
- Synthetic aperture radar**
- Analysis of coastal ice cover using ERS-1 SAR data. Leshkevich, G., et al., [1995,eng] 50-1822
- Automatic ice motion retrieval from ERS-1 SAR images using the optical flow method. Sun, Y., [1996,eng] 50-5824
- C-band backscatter measurements of winter sea-ice in the Weddell Sea, Antarctica. Drinkwater, M.R., et al., [1995,eng] 50-1817
- C-band radar backscatter from antarctic first-year sea ice. 1. Jeffries, M.O., et al., [1995,eng] 50-6506
- C-band radar backscatter from antarctic first-year sea ice. 2. Morris, K., et al., [1995,eng] 50-6507
- Charting movement of sea ice by satellite. Carsey, F., [1995,eng] 50-715
- Comparison of second-order classifiers for SAR sea ice discrimination. Barber, D.G., et al., [1993,eng] 50-1446
- Corrections to paper by Shi et al. Shi, J.C., et al., [1995,eng] 50-1834
- DEM corrected ERS-1 SAR data for snow monitoring in alpine regions. Guneriusson, T., et al., [1995,eng] 50-3716
- DEM corrected ERS-1 SAR data for snow monitoring. Guneriusson, T., et al., [1996,eng] 50-3149
- Demonstration of operational sea-ice monitoring in the Baltic Sea with ERS-1 SAR. Herland, E.A., et al., [1995,eng] 50-1820
- Detection of radar targets in sea-ice clutter. Lin, C.P., et al., [1996,eng] 50-5895
- Determination of snowcovered area by satellite SAR imagery. Seglenieks, F., et al., [1995,eng] 50-3106
- Dielectric properties and microwave remote sensing of snow and ice. Matsuo, T., et al., [1995,jpn] 50-3511
- Diffusive coefficients of arctic sea-ice motion estimate through SAR. Kakuta, S., et al., [1996,eng] 50-5893
- Effect of sea ice surface features on radar backscatter. Ulander, L.M.H., et al., [1995,eng] 50-1813
- ERS-1 SAR wind vector data from the Norwegian continental shelf. Wackerman, C.C., et al., [1994,eng] 50-1511
- Exploring the behaviour of microwaves in a snowpack using modelling techniques. Leconte, R., [1996,eng] 50-5539
- Extraction of deformation descriptors from spaceborne radar ice motion products. Li, S., et al., [1995,eng] 50-1812
- Forest damage mapping with multitemporal ERS-1 SAR data. Rauste, Y., [1994,eng] 50-3229
- Fuzzy classification of earth terrain covers using complex polarimetric SAR data. Du, L., et al., [1996,eng] 50-4018
- High resolution observations of Weddell Sea surface currents using ERS-1 SAR sea-ice motion vectors. Thomas, J.P., et al., [1995,eng] 50-1819
- Ice dynamics in the south-western Laptev Sea as derived from ERS-1 SAR images. Kolatschek, J., et al., [1995,eng] 50-2063
- Ice sheet motion and topography from radar interferometry. Kwok, R., et al., [1996,eng] 50-2702
- Iceberg detection using ERS-1 synthetic aperture radar. Willis, C.J., et al., [1996,eng] 50-5225
- Iceberg observations and estimation of submarine ridges in the western Weddell Sea. Viehoff, T., et al., [1995,eng] 50-1818
- Information states in sea ice imagery. Kerman, B.R., [1995,eng] 50-6311
- Least average residual algorithm (LARA) for tracking the motion of arctic sea ice. Peddada, S.D., et al., [1996,eng] 50-5686
- Mapping alpine snow and ice using Landsat TM and SAR imagery at Wapta icefield. Brugman, M.M., et al., [1996,eng] 50-5545
- Measurement of ice-sheet topography using satellite-radar interferometry. Joughin, I., et al., [1996,eng] 50-4887
- Meteorological support for navigation along the Northern Sea Route. Kondratiev, K.I.A., et al., [1994,eng] 50-648
- Microprocessor based ice-radar system for surface profiling. Jacobel, R.W., et al., [1992,eng] 50-59
- Microwave imaging of Labrador Sea thin sea ice. Collins, M.J., et al., [1996,eng] 50-2701
- Microwave remote sensing of ice sheets by SAR interferometry. Nishio, F., [1995,jpn] 50-1175
- Monitoring and modelling the ice conditions offshore Greenland. Valeur, H.H., et al., [1995,eng] 50-2971
- Monitoring lead dynamics with ERS-1 synthetic aperture radar imagery. Wackerman, C.C., et al., [1994,eng] 50-1512
- Multisensor observations of winter sea ice in the Greenland Sea. Toudal, L., [1994,eng] 50-1514
- North-East Water polynya: satellite observations summer 1992 and 1993. Gudmandsen, P., et al., [1995,eng] 50-1814
- Oceanic remote sensing and sea ice monitoring. Johannessen, J.A., ed. et al., [1994,eng] 50-1509
- Operational use of ERS-1 SAR images in the Canadian ice monitoring programme. Shokr, M.E., et al., [1996,eng] 50-4017
- Polarimetric detection of objects buried in snowpack by a synthetic aperture FMB-CW radar. Yamaguchi, Y., et al., [1996,eng] 50-2700
- Radar survey of French Alps snow cover. Bernier, M., et al., [1996,fre] 50-5542
- Remote sensing of arctic sea ice using the ERS-1 SAR. Askne, J., et al., [1992,eng] 50-223
- Remote sensing of sea ice variations in response to atmospheric circulation. Maslanik, J.A., et al., [1995,eng] 50-1815
- Retrieval of thin ice thickness from multifrequency polarimetric SAR data. Kwok, R., et al., [1995,eng] 50-349
- SAR interferometric signatures of forest. Wegmüller, U., et al., [1995,eng] 50-981
- SAR observations of arctic freeze-up compared to SSM/I during ARCTIC'91. Petterson, M.I., et al., [1996,eng] 50-6694
- Satellite imagery of ice sheet drainage basins, Russian Arctic. Dowdeswell, J.A., et al., [1995,eng] 50-3327
- Satellite mapping and monitoring of sea ice. Smith, D.M., et al., [1994,eng] 50-5197
- Satellite radar detection of Alaskan forest ecosystem types. Harrell, P.A., et al., [1995,eng] 50-3493
- Satellite radar observations of Beaufort Sea autumn freeze-up. Winebrenner, D.P., et al., [1996,eng] 50-6218
- Satellite radar survey of Japan Sea ice processes. Martin, S., et al., [1995,eng] 50-1810
- Satellite remote sensing of the Arctic Ocean and adjacent seas. Comiso, J.C., [1995,eng] 50-1160
- Satellite remote sensing tools for sea ice engineering. Cavané, A., et al., [1995,eng] 50-184
- Satellite SAR identification of lake water resources on the North Slope. Jeffries, M.O., et al., [1996,eng] 50-6177
- Sea ice radar backscatter and the fusion of active and passive microwave data. Beaven, S.G., [1995,eng] 50-4171
- Search for proxy indicators of young sea ice thickness. Zabel, I.H.H., et al., [1996,eng] 50-4303
- Seasonal radar backscatter variation from boreal forests. Pulliainen, J.T., et al., [1996,eng] 50-4765
- Sensor mapping of arctic wetland distribution. Morrissey, L.A., et al., [1996,eng] 50-4764
- Some results from geocoding and calibration of ERS-1 SAR FD images in mountainous areas. Johnsen, H., et al., [1995,eng] 50-3717
- Spaceborne radar imagery for ice reporting in the Baltic Sea. Hakansson, B., et al., [1995,eng] 50-1821
- Spaceborne radar photography of subarctic landscapes. Vachon, P.W., et al., [1995,eng] 50-4091
- Temporal analysis of ERS-1 SAR backscatter for hydrology applications. Crevier, Y., et al., [1996,eng] 50-5543
- Universal multifractal scaling of synthetic aperture radar images of sea-ice. Falco, T., et al., [1996,eng] 50-5685
- Use of ERS-1 SAR data in numerical sea ice modeling. Lepäntä, M., et al., [1992,eng] 50-222
- Use of SAR satellite imagery to measure active layer moisture contents in arctic Alaska. Kane, D.L., et al., [1994,eng] 50-5695
- Validation of backscatter models for level and deformed sea-ice in ERS-1 SAR images. Carlström, A., et al., [1995,eng] 50-1811
- Synthetic materials**
- Effects of freeze-thaw cycling on geomembrane sheets and their seams. Comer, A.I., et al., [1995,eng] 50-2864
- Thermal insulating geosynthetics as a soil protective cover substitute. Deutsch, W.L., Jr., [1995,eng] 50-2866
- Use of geosynthetics to prevent waterfowl white phosphorus poisoning. Henry, K.S., et al., [1995,eng] 50-2865
- Syr Darya River**
- Glacial-hydrological studies of the Syr Darya basin. Kamalov, B.A., [1973,rus] 50-426
- Taiga**
- Assessing effects on cryogenic terrain. Zotova, L.I., et al., [1996,rus] 50-6846
- Climate of western Siberia: past and future. Bukreeva, G.F., et al., [1995,eng] 50-6583
- Controls of canopy structure on snowmelt rates in the boreal forest. Metcalfe, R.A., et al., [1995,eng] 50-3130
- Decomposition of soil surface lichens in mountain tundra and taiga. Parinkina, O.M., et al., [1995,eng] 50-3875
- Differentiation of the composition and properties due to podzolization on the Baikal-Patom plateau. Kuzmin, V.A., [1995,eng] 50-3871
- Effects of fire in the taiga on the environment. Lotspeich, F.B., et al., [1971,eng] 50-3244
- Environmental changes in the North under the influence of technogenic factors. Makarova, O.A., [1994,rus] 50-285
- Estimating soil water content during global climatic warming. Velichko, A.A., et al., [1995,rus] 50-4115
- Evergreen shrub leaf variations in taiga and tundra landscapes. Kudo, G., [1995,eng] 50-2732
- Extreme fire seasons in the forests of Evenkia. Ivanova, G.A., [1995,eng] 50-4700
- Forest recultivation of disturbed lands in the far northern taiga zone of the Komi Republic. Parfeniuk, V.I., [1994,rus] 50-290
- Geographical patterns in the biological productivity of soil-vegetation associations. Bazilevich, N.I., [1995,eng] 50-3872
- Impact of fires on mountain sod-taiga soils under larch forests in Mongolia. Krasnoshchekov, I.U.N., [1995,eng] 50-2715
- Impact of global warming on tundra and forest ecosystems. Pöchl, M., et al., [1995,eng] 50-4865
- Initial assessment of multi-scale measures of CO₂ and H₂O flux in the Siberian taiga. Hollinger, D.Y., et al., [1995,eng] 50-3810
- Materials for a flora of the leafy mosses of the European part of the Northern Urals. Zheleznova, G.V., et al., [1995,eng] 50-3177
- Mathematical models of ecosystem carbon cycle feedback effects. Ryzhova, L.M., [1996,eng] 50-5087
- Mesomorphous soil formation in the cryogenic taiga semihumid sector of central Siberia. Ershov, I.U.I., [1995,eng] 50-2146
- Microbial activity of tundra and taiga soils at sub-zero temperatures. Clein, J.S., et al., [1995,eng] 50-2025
- Model for the development of sod-podzolic soils by windthrow. Vasenev, I.I., et al., [1995,eng] 50-2712
- Natural vegetation complexes of the Northern Dvina River floodplain. Vekhov, N.V., [1995,eng] 50-4699
- Nutrient availability in Alaskan upland forest sites. Yarie, J., et al., [1994,eng] 50-4798
- Organic carbon storage in the soils of the Russian Federation. Orlov, D.S., et al., [1996,eng] 50-5085
- Plant communities of the Bol'shoj Chyrykuj River Valley, Barguzinskij Range, East Siberia. Chytrý, M., et al., [1995,eng] 50-4950
- Reestablishment and protection of biodiversity in the European taiga. Anufriev, V.M., [1994,rus] 50-284
- Regional system of protected natural areas in the north of Western Siberia. Pokrovskaja, I.V., [1995,eng] 50-3170
- Russian soil geography as indicated by a new detailed map. Andronikov, V.L., et al., [1995,eng] 50-3873
- Snow-mass intercomparisons in the boreal forests. Foster, J., et al., [1996,eng] 50-5837
- Soil geomorphology on Alaskan permafrost terrain. Swanson, D.K., [1996,eng] 50-6518
- Spatial distribution of snow chemical load at the tundra-taiga transition. Pomeroy, J.W., et al., [1995,eng] 50-2412
- Spruce succession, disturbance, and geomorphology on the Tanana River floodplain, Alaska. Mann, D.H., et al., [1995,eng] 50-2159
- Taiga climate. Bonan, G.B., [1996,eng] 50-5000
- Taymyr Peninsula vegetation response to climatic changes. Koshkarova, V.L., [1995,eng] 50-4701
- Typization of elementary soil-cover structures occurring in European Russia. Simakova, M.S., [1995,eng] 50-3878
- Vegetation cover in technogenic regions of Northern Europe. Gruzdev, B.I., et al., [1994,rus] 50-263
- Tailings**
- Coal mine spoil instability in discontinuous permafrost. Hardy, A.J., et al., [1996,eng] 50-6166
- Dispersal of metal-contaminated sediments in an arctic river. Sear, D., et al., [1996,eng] 50-6516
- Freeze-thaw dewatering and structural enhancement of fine coal tails. Stahl, R.P., et al., [1995,eng] 50-357
- Spray freezing to treat oil sands tailings pond water. Gao, W., et al., [1996,eng] 50-6112
- Tajikistan**
- Glacial-hydrological studies of the Syr Darya basin. Kamalov, B.A., [1973,rus] 50-426
- Tajikistan—Anzobskiy Pass**
- Forecasting avalanches from freshly fallen, snowstorm and wet snow in the Anzobskiy Pass region. Kharitonov, G.G., et al., [1991,rus] 50-12
- Tajikistan—Pamir-Alay**
- Relationship between temperature and glacier melting with middle troposphere temperature. Volkova, M.V., et al., [1973,rus] 50-433

Taliks

Tectonics

Taliks

- Characteristics of the geocryological conditions in shallow water areas in the cryolithozone. Buldovich, S.N., [1996,rus] 50-6389
- Conditions for the formation of taliks in mountain regions and foothills. Zhelezniak, M.N., et al. [1996,rus] 50-6411
- Engineering-geocryological regionalization of Tazov Peninsula. Belopukhova, E.B., et al. [1983,rus] 50-308
- Formation of taliks and high temperature frozen rocks under conditions of Central Yakutia. Shender, N.I., et al. [1996,rus] 50-6412
- Mode of degradation of Pleistocene permafrost in West Siberia. Astakhov, V.I., [1995,eng] 50-507
- Permafrost, the active layer, and changing climate. Lachenbruch, A.H., [1994,eng] 50-5930
- Prospects for using geochemical methods in forecasting and evaluating technogenic talik zones. Tregubov, O.D., [1996,rus] 50-6855
- Special geocryological regionalization of the European north-east. Ivanova, T.F., et al. [1985,rus] 50-240
- Suprapermafrost taliks as arctic water supplies. Burchak, T.V., et al. [1990,rus] 50-1601
- Technogenic tailed formation around the city of Anadyr'. Kotov, A.N., [1996,rus] 50-6854
- Use and protection of ground water from depletion and pollution (Magadan). Elinek, L.I.A., [1991,rus] 50-440
- Taliks beneath lakes**
- Distribution characteristics of taliks beneath lakes in the Bovenko region. Anan'eva, G.V., et al. [1996,rus] 50-6360
- Taliks**
- Debris transfer and sedimentary environments: alpine glaciated areas. Johnson, P.G., [1995,eng] 50-4828
- Estimating long-term rockfall accretion rates by lichenometry. Luckman, B.H., et al. [1995,eng] 50-4836
- Finite element analysis of the creep of debris containing thin ice bodies. Azizi, F., et al. [1995,eng] 50-183
- Geomorphic effects of the retreat of Jamapa Glacier, Pico de Orizaba Volcano (Mexico). Palacios, D., et al. [1996,eng] 50-5578
- Holocene development of a debris slope in subarctic Québec, Canada. Marion, J., et al. [1995,eng] 50-2857
- Landforms associated with Pleistocene glaciation in Ireland. Wilson, P., et al. [1995,eng] 50-5486
- Lichenometric dating of alpine Little Ice Age moraines. Winkler, S., et al. [1995,ger] 50-3396
- New Zealand talus-derived rock glacier climatic responses. Kirkbride, M., et al. [1995,eng] 50-6561
- Paleoclimatic interpretation of rock glacier dating. Nicholas, J.W., et al. [1996,eng] 50-5577
- Periglacial landforms and sediments in Argentina. Trombotto, D., [1991,ger] 50-1684
- Periglacial landforms and sediments. Semmel, A., [1990,ger] 50-1793
- Protalus formation mechanisms in Norwegian sediments. Shakesby, R.A., et al. [1995,eng] 50-3328
- Quaternary glacial in the Andes. Heine, K., [1995,eng] 50-4837
- Rocky Mountain snowmelt on talus slopes by radar satellite. Maxfield, A.W., [1996,eng] 50-5544
- Slope erosion processes in the Alps. Becht, M., [1995,eng] 50-4829
- Steepland geomorphology. Slaymaker, O., ed. [1995,eng] 50-4827
- Stratified slope deposits: the stone-banked sheets and lobes model. Bertran, P., et al. [1995,eng] 50-4834
- Tanker ships**
- Another look at oil transportation in and from the arctic environment. Marsden, S.S., Jr., et al. [1991,eng] 50-1711
- Arctic Pilot Project integrated route analysis. Chapter 2. Physical aspects of the route areas. [1981,eng] 50-3558
- Arctic tanker structural requirement evaluation. Final report. McCallum, J.S., et al. [1995,eng] 50-4124
- Contained controlled burning of spilled oil during the Exxon Valdez oil spill. Allen, A.A., [1990,eng] 50-471
- Design of ice-navigating cargo vessels. Kitagawa, H., [1996,eng] 50-4470
- Environmental effects of the Antonio Gramsci oil spill in 1987. Hirvi, J.P., [1990,eng] 50-469
- Escorting and tethering oil tankers in Prince William Sound. Corsini, T.J., [1995,eng] 50-5718
- Evaluation of double-sided beam and girder constructions tension subject to local ice loads. Barabanov, N.V., et al. [1996,eng] 50-4465
- Experiences of three years of oil transportation in the Russian Arctic with a Western fleet. Nünzi, M., [1996,eng] 50-4486
- Exxon Valdez Oil Spill Restoration Plan. Final environmental impact statement. Exxon Valdez Oil Spill Trustee Council, Anchorage, AK, [1994,eng] 50-369
- Exxon Valdez Oil Spill Restoration Plan. Exxon Valdez Oil Spill Trustee Council, Anchorage, AK, [1994,eng] 50-398
- Ice resistance of three bow forms for the NSR cargo ship. Izumiya, K., et al. [1996,eng] 50-4471
- Northern Gateway Oil Terminal Study: phase I. Vikhamar, T.K., et al. [1995,eng] 50-211
- Northern Sea Route: future & perspective. Northern Sea Route: future & perspective. Proceedings of INSROP Symposium, Tokyo, Oct. 1-6, 1995, [1996,eng] 50-4419
- Preliminary study of tankers for year-round transportation of crude oil from Ob Gulf. Tsoi, L.G., et al. [1996,eng] 50-4461

- Project II.6.2: Environmental safety of navigation. Tsoi, L.G., et al. [1996,eng] 50-4440
- Project of gas liquefaction at the Yamal Peninsula: the problem and solution. Gritsenko, A.I., et al. [1996,eng] 50-4488
- Seaborne oil and gas transportation from Northern Russia. Backlund, A., [1996,eng] 50-4487
- Shoreline cleanup following the Exxon Valdez oil spill. Owens, E.H., et al. [1990,eng] 50-476
- Standardization of corrosion wear of shell plating for ice ships operations. Kulesh, V.A., et al. [1996,eng] 50-4466
- Transport of natural gas as frozen hydrate. Gudmundsson, J.S., et al. [1995,eng] 50-170
- Transportation of Alaska North Slope natural gas to market. Lannom, D.A., et al. [1996,eng] 50-6126
- Underwater transport system for the Arctic. Kuteinikov, A.V., et al. [1996,eng] 50-4476
- Tanks (containers)**
- Automatic integrated module installed at Terra Nova Bay. Lori, A., [1994,eng] 50-4281
- Low carbon steels for pressure vessels subject to low temperatures. Haney, F., et al. [1996,eng] 50-5956
- Underground fuel tanks for Alaska. Freas, G.C., [1991,eng] 50-4226

See [also]: Storage tanks

Tatra Mountains

- Characteristics of winters in a high mountain region climate in a period of new climatic norms. Kveták, Š., et al. [1991,rus] 50-3521

Tectonics

- Analysis on metamorphism of Ertix structural belt in northern Xinjiang. Sui, J.X., [1993,chi] 50-2370
- Antarctic bottom topography and its representation on new bathymetric charts. Marova, N.A., [1993,rus] 50-4509
- Base Pliocene velocity inversion on the eastern Voring Margin—causes and implications. Reemst, P., et al. [1996,eng] 50-5316
- Beardmore Glacier glaciogenic succession, Transantarctic Mountains. Webb, P.N., et al. [1996,eng] 50-6630
- Bedrock geologic research in Glacier Bay National Park. Brew, D.A., et al. [1995,eng] 50-3732
- Carboniferous litho facies-paleogeography and its tectonic condition in northern Xinjiang. Wei, Z.L., et al. [1993,chi] 50-2367
- Carboniferous siliceous rock and its relation to metallic sulfide deposits in northern Xinjiang. Yang, W.H., et al. [1993,chi] 50-2358
- Catastrophic mass movements in the mountains around the Qinghai-Xizang Plateau. Fort, M., et al. [1995,eng] 50-4835
- Cenozoic deposition in the Nansen Basin, Barents Sea. Vågenes, E., [1996,eng] 50-5313
- Cenozoic uplift of Fennoscandia inferred from a study of the mid-Norwegian margin. Stuevold, L.M., et al. [1996,eng] 50-5324
- Computer simulations of Alaskan neotectonics. Bird, P., [1996,eng] 50-6215
- Cretaceous to recent extension in the Bering Strait region, Alaska. Dumitru, T.A., et al. [1996,eng] 50-3714
- Deforming bed conditions on the Dänischer Wohld Peninsula, northern Germany. Hart, J.K., et al. [1996,eng] 50-6536
- Dependence of rock stream development on geomorphological-tectonic features. Malchikova, I.U., [1993,rus] 50-117
- Depositional sequence of the Quaternary period in Xinjiang. Peng, X.L., [1985,chi] 50-2005
- Differentiation of neotectonic movements in western Sørkapp Land (Spitsbergen). Szczesny, R., [1993,eng] 50-2211
- Discussion on the Quaternary glaciations in the Karakorum-West Kunlun Mountains. Li, B.Y., et al. [1994,eng] 50-1534
- Double wedging model for the Qinghai-Xizang Plateau. Zheng, J.D., [1992,chi] 50-1505
- Early stages of till genesis: an example from Fanore, County Clare, Ireland. Crook, D.G., et al. [1996,eng] 50-5828
- Elastic response of the earth to interannual variations in antarctic precipitation. Conrad, C.P., et al. [1995,eng] 50-3089
- Engineering-geocryological regionalization of Tazov Peninsula. Belopukhova, E.B., et al. [1983,rus] 50-308
- Engineering-geocryological regionalization of the central regions of northwestern Siberia. Belopukhova, E.B., et al. [1985,rus] 50-241
- Ertix volcanic rocks and tectonic evolution. Yu, X.Y., et al. [1993,chi] 50-2364
- Evidence for Cenozoic crustal extension in the Bering Sea region. Cooper, A.K., et al. [1992,eng] 50-2565
- Evolutional and genetic mechanism of tectonics of Altay area. Zhang, X.B., et al. [1993,chi] 50-2363
- First appearance of Himalayas and its relation to global climatic events. Xu, Q.Q., [1992,chi] 50-1504
- Geochimistry of the Uluungur-Zhaisangpo tectonic melange belt. Liu, W., et al. [1993,chi] 50-2366
- Geodynamic polygon in Hornsund Fjord, Spitsbergen. Pachuta, A., et al. [1989,pol] 50-2933
- Geological evolution and diagenetic mineralization in Xinjiang. Tu, G.Z., [1993,chi] 50-2351
- Geological investigations on the Novosibirsk Islands. Paech, H.J., [1995,eng] 50-2107
- Geological map (1:25,000) of the SW part of Wedel Jarlsberg Land. Czerny, J., et al. [1993,eng] 50-2197
- Geological mapping of Svalbard tectonic fault zone. McCann, A.J., et al. [1996,eng] 50-4232
- Geological structure of the Laptev Ocean shelf. Kim, V.I., et al. [1995,eng] 50-2108

- Geological transect of the Brooks Range, Alaska. Kelley, J.S., et al. [1995,eng] 50-5198
- Geology and mineralogy of some important nonmetal deposits. Cao, J.C., et al. [1993,chi] 50-2379
- Geology and tectonic evolution of Germanialhavva, Spitsbergen. Piepjohn, K., et al. [1994,ger] 50-1577
- Geology of a Spitsbergen fault zone. Lamar, D.L., et al. [1995,eng] 50-4296
- Geomorphological and neotectonic features of Hurd Peninsula, Livingston Island, South Shetland Islands. Pallás, R., et al. [1995,eng] 50-1337
- Geomorphology of the South Kara shelf. Musatov, E.E., et al. [1992,eng] 50-3437
- Geotectonic evolution of the Qinghai-Xizang Plateau. Chang, C.F., [1992,chi] 50-1498
- Glacial isostasy and lateral mantle viscosity. Sabadini, R., et al. [1989,eng] 50-4710
- Glacial isostatic uplift of Tibet as a consequence of a former ice sheet. Kuhle, M., [1995,eng] 50-6064
- Glacioclastic process at Svalbard. Hambrey, M.J., et al. [1995,eng] 50-6559
- Glaciated structures and their morphological expression in the Warta Glaciation zone. Kiatkova, H., [1993,pol] 50-3659
- Gold mineralization in western Junggar. Shen, Y.C., et al. [1993,chi] 50-2371
- Gondwana stratigraphy in the Qinghai-Xizang Plateau. Yin, J.X., [1992,chi] 50-1503
- Great Qinghai-Xizang ice sheet. Han, T.L., [1991,chi] 50-2176
- Gulf of Alaska paleoclimatological influence on marine ecology. Lagoe, M.B., et al. [1996,eng] 50-6625
- Hot springs in the Hoh Xil Mountains. Zheng, X.S., et al. [1992,chi] 50-1507
- Impact of Cenozoic uplift on offshore Norwegian hydrocarbon exploration. Doré, A.G., et al. [1996,eng] 50-5327
- Impact of subglacial groundwater flow on moraine formation. Boulton, G.S., et al. [1995,eng] 50-2129
- Influence of a finite glaciation phase on predictions of post-glacial isostatic adjustment. Mitrovica, J.X., et al. [1995,eng] 50-2723
- Inquiry on ice ages in Mount Xixia Bangma region. Shi, Y.F., et al. [1982,chi] 50-6605
- Interpretation of faults in glaciofluvial sediments. McDonald, B.C., et al. [1975,eng] 50-4810
- Intracontinental subduction zones in the Tibetan Plateau and their magmatism. Deng, W.M., [1992,chi] 50-1499
- Isotope geochemistry and crustal evolution of northern Xinjiang. Hu, A.Q., et al. [1993,chi] 50-2353
- Late Cenozoic sedimentation and uplift history on the mid-Norwegian continental shelf. Henriksen, S., et al. [1996,eng] 50-5315
- Late Cenozoic tectonics and the dynamics of the west antarctic ice sheet. Behrendt, J.C., et al. [1994,eng] 50-1884
- Mafic intrusive body bearing Cu-Ni mineralization in Xinjiang. Yuan, Q.L., et al. [1993,chi] 50-2376
- Magmatic activities and its relation to tectonic setting and gold mineralization in western Junggar. Jin, C.W., et al. [1993,chi] 50-2360
- Mantle rebound from data inversion of glacier isostatic dynamics. Peltier, W.R., et al. [1996,eng] 50-3548
- Marine geophysical investigations in the Laptev Sea and the western part of the East Siberian Sea. Roeser, H.A., et al. [1995,eng] 50-2106
- Metallogenic geology and geochemistry related to Ertix volcanism. Liu, T.G., et al. [1993,chi] 50-2375
- Metallogenic mechanism of Cu in Altay. Li, Z.C., [1993,chi] 50-2374
- Metallogenic mechanism of tungsten deposit in Alatau. Wang, K.R., et al. [1993,chi] 50-2373
- Morphological-paleogeographical features of the Warta Glaciation relief in the Rawka River lobe. Klajnert, Z., [1993,pol] 50-3657
- Neotectonic framework of the boundary of the Qinghai-Xizang Plateau. Wu, X.H., et al. [1992,chi] 50-1501
- New advances in solid earth sciences in northern Xinjiang. Tu, G.Z., ed. [1993,chi] 50-2350
- New paleontological evidence for continental drift in the Qinghai-Xizang Plateau. Wen, S.X., [1992,chi] 50-1506
- Norwegian Pleistocene crustal metamorphism. Ohta, Y., et al. [1995,eng] 50-5535
- Ny Friesland Orogen, Spitsbergen. Harland, W.B., et al. [1992,eng] 50-5155
- Off-rift and rift-zone palaeostresses in northwest Iceland. Gudmundsson, A., et al. [1996,eng] 50-6207
- Ophiolite belts and their genetic environment in western Junggar. Zhang, C., et al. [1993,chi] 50-2355
- Origin and evolution of the mountain flora in Middle Asia and neighbouring mountain regions. Agakhaniants, O.E., et al. [1995,eng] 50-3893
- Overlapping mineralization of Karatongki Cu-Ni deposit. Zhan, X.Z., [1993,chi] 50-2377
- Paleoclimatic changes on the northern side of the central Himalaya. Fort, M., [1996,eng] 50-5096
- Paleoclimatic import of gravel deposits on a Chinese plateau. Liu, T.S., et al. [1996,eng] 50-5098
- Paleomagnetism of Icelandic lava piles. Kristjánsson, L., et al. [1995,eng] 50-4948
- Paleozoic stratigraphy of ophiolites and their tectonic setting in Xinjiang. Wu, H.R., et al. [1993,chi] 50-2361
- Pb-Zn-Au deposits in Carboniferous strata of northern Xinjiang. Yang, W.H., et al. [1993,chi] 50-2357

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- Plate and terrain tectonics of northern Xinjiang. Cao, R.L., et al. [1993.chi] 50-2352
- Plate tectonics and climate change in the Cenozoic. Eldholm, O., et al. [1994.eng] 50-896
- Pleistocene altiplanation in northern Chile. Kott, A., et al. [1995.eng] 50-4947
- Pleistocene-Holocene fluxes are not the Earth's norm. Hay, W.W., [1994.eng] 50-1237
- Plio-Pleistocene megacycles: record of climate and tectonics. Kukla, G., et al. [1996.eng] 50-5099
- Postglacial rebound from VLBI geodesy: on establishing vertical reference. Argus, D.F., [1996.eng] 50-5459
- Principal mineral resources and their distribution on the Qinghai-Xizang Plateau. Xu, Z.Y., et al. [1991.chi] 50-2295
- Problem on dividing the neotectonic units in Xinjiang. Bai, M.X., [1985.chi] 50-2008
- Problems in geodynamic studies of Antarctica. Guterch, A., [1989.pol] 50-2874
- Proceedings of the first symposium on the Qinghai-Xizang Plateau. China Society of Qinghai-Xizang Plateau Research, Symposium, 1st. Mar. 1990. [1992.chi] 50-1475
- Proceedings [1994.eng] 50-1531
- Processes of glaciectonism. Van der Wateren, F.M., [1995.eng] 50-3590
- Quantification of Barents Sea Pleistocene bottom erosion. Rasmussen, E., et al. [1996.eng] 50-5311
- Quaternary glaciation in the Karakoram and Himalayas. Derbyshire, E., [1996.eng] 50-5097
- Recent history of the Bering Strait. Svitoch, A.A., et al. [1995.eng] 50-2535
- Reconstruction of the late Palaeozoic ice sheet on southwestern Gondwana. Visser, J.N.J., [1993.eng] 50-6318
- Record of Warta processes in the base of the mountain Ner River valley. Turkowska, K., [1993.pol] 50-3667
- Regional metallogenic model of Alatau region. Man, F.S., et al. [1993.chi] 50-2372
- Role of North Atlantic margin uplift in Cenozoic glaciation. Eyles, N., [1996.eng] 50-3386
- Russian-German cooperation: Laptev Sea system. Kassens, H., et al. [1995.eng] 50-2059
- Scandinavian Pleistocene tectonic correlations. Riis, F., [1996.eng] 50-5323
- Sedimentary palaeoclimatic indicators: what they are and what they tell us. Parrish, J.T., et al. [1993.eng] 50-1208
- Seismic reflection data from the Fram Strait. Jokat, W., et al. [1995.eng] 50-2541
- Shrinking of Quaternary lakes and environmental changes on the Tibetan Plateau. Zhao, Y.T., [1994.eng] 50-4781
- Simulation of Pleistocene glacial limits in Yunnan, China. Anyia, M., et al. [1991.eng] 50-3307
- Sino-Kazakhstan-Mongolia border area tectonics from satellite data. Yang, D.C., et al. [1993.chi] 50-2385
- Slope valleys in glaci-marine sediments of the Gulf of Alaska. Carlson, P.R., et al. [1990.eng] 50-922
- Source of Quaternary deposits at the foot of the West Kunlun Mountains. Xinjiang. Zhu, L.P., [1994.eng] 50-1539
- Source of Quaternary deposits at the foot of the West Kunlun Mountains. Xinjiang. Zhu, L.P., [1994.eng] 50-1539
- Stable isotopic character of mineralization of some deposits in northern Xinjiang. Zhang, G.X., et al. [1993.chi] 50-2378
- Structural pattern and tectonic history of the Laptev Sea region. Drachev, S.S., et al. [1995.eng] 50-2105
- Subsurface seismotectonigraphic mapping at Anchorage. Schmoll, H.R., et al. [1986.eng] 50-483
- System of Cenozoic rifts in the eastern Arctic and its possible implications. Bogdanov, N.A., et al. [1995.rus] 50-4121
- Tectonic features of the northwestern Qinghai-Xizang Plateau. Pan, Y.S., [1992.chi] 50-1500
- Tectonic framework of the Teslin region, southern Yukon Territory. Gordey, S.P., et al. [1994.eng] 50-81
- Tectonic records derived from petrology at a glacier fringe. Pavlis, T.L., et al. [1995.eng] 50-1833
- Tectonic significance of alpine eclogites. Spalla, M.L., et al. [1996.eng] 50-5572
- Tectonics sketch of the offshore area within Hornsund region. Spitsbergen. Bednarek, J., et al. [1993.eng] 50-2195
- Tertiary paleostress regimes in arctic islands. Lepvrier, C., et al. [1996.eng] 50-6208
- Thermal rejuvenation of the Yermak Plateau. Okay, N., et al. [1994.eng] 50-4249
- Tholeiitic-alkalic transition at subglacial volcanoes, Tuva region, British Columbia, Canada. Moore, J.G., et al. [1995.eng] 50-3012
- Thrusting and debris entrainment in a surging glacier: Bakanin-breen, Svalbard. Hambrey, M.J., et al. [1996.eng] 50-6267
- Trace element geochemistry of volcanic rocks along the Ertix River. Mei, H.J., et al. [1993.chi] 50-2365
- Volcanic and tectonic history of Enceladus. Kargel, J.S., et al. [1996.eng] 50-3864
- Telecommunication**
- Antarctic alternative energy summary. Chiang, E., U.S. National Science Foundation. Office of Polar Programs, [1994.eng] 50-4278
- From Anik to MSAT: bringing modern communications to the North. Pool, A., [1996.eng] 50-2446
- High-speed network for communication by voice, data video and fax among three antarctic bases. Blasi, L., et al. [1994.eng] 50-4282
- Mac Weather*: improved meteorological support in Antarctica. Joseph, J.E., [1994.eng] 50-4285

- Relocation of telecommunication facilities at Syowa Station. Takada, K., [1995.jp] 50-3499
- Telecommunications in Greenland: also for offshore activities. Malmberg, P., [1995.eng] 50-2968
- See [also]: Data transmission; Radio communication
- Telemetry equipment**
- Arctic buoys send data around the world. [1992.eng] 50-6094
- Buoy for all arctic seasons: the Ice-Ocean Environmental Buoy. Honjo, S.S., [1996.eng] 50-6673
- Buoys in the Arctic study heat exchange. Honjo, S.S., et al. [1996.eng] 50-6334
- New transducer for measurement of ice loads for utilities. Seppa, T.O., [1996.eng] 50-5397
- Performance assessment of the high resolution GPS ranging system. Deffenbaugh, M., et al. [1995.eng] 50-6309
- Sea Ice Mechanics Initiative (SIMI) geophone/hydrophone system. Stein, P.J., et al. [1995.eng] 50-6277
- Seismo-acoustic remote sensing of ice-mechanical processes in the Arctic. Schmidt, H., et al. [1995.eng] 50-6276
- Telemetry of climatic loads on Hydro-Québec 735 kV lines. Hardy, C., et al. [1996.eng] 50-5358
- See [also]: Remote sensing
- Telluric current exploration**
- See [also]: Electromagnetic prospecting
- Telluric currents**
- See [also]: Geoelectricity
- Temperature**
- Glacier geophysics at Taylor Dome: year 4. Waddington, E.D., et al. [1994.eng] 50-1899
- See [also]: Air temperature; Frozen ground temperature; Frozen rock temperature; Ice temperature; Low temperature research; Low temperature tests; Snow surface temperature; Snow temperature; Soil temperature; Surface temperature; Thermal properties; Threshold temperatures; Water temperature
- Temperature control**
- Carburetor ice gremlin? [1990.eng] 50-3573
- Cold climate applications of bioventing. Ong, S.K., et al. [1994.eng] 50-1474
- Effect of color and texture on the surface temperature of asphalt concrete pavements. Berg, R.L., [1985.eng] 50-4362
- Effects of global warming on building construction on permafrost. Khristalev, L.N., [1996.eng] 50-5861
- Evaluation of vacuum-insulated tubing for paraffin control at Norman Wells. Purdy, I.L., et al. [1991.eng] 50-1727
- Freeze protection of Florida citrus with microsprinkler irrigation. Parsons, L.R., et al. [1995.eng] 50-3074
- Functional significance of inflorescence pubescence in tropical alpine species of *Puya*. Miller, G.A., [1994.eng] 50-3083
- Geocryological conditions for power plant foundations in Russia. Krivonogova, N.F., et al. [1991.eng] 50-1736
- Handwarmers benefit young citrus trees during freezes. Parsons, L.R., et al. [1995.eng] 50-872
- Heaters for oil pipelines. [1991.eng] 50-4380
- Microsprinkler irrigation for freeze protection of young citrus trees. Davies, F.S., [1995.eng] 50-3075
- OTH-backscatter power plant foundation design for warm, ice-rich permafrost soils. Foster, M.L., et al. [1991.eng] 50-1735
- Phase transformation in materials with nonuniform phase transition temperatures. Hong, J.S., et al. [1995.eng] 50-755
- Protecting water meters from freezing. Kotry, J., [1992.eng] 50-3559
- Second-order dynamic model for the frost hardness of trees. Leinonen, I., et al. [1995.eng] 50-1146
- Simulation of foam protection of plants against frost. Krasovitski, B., et al. [1995.eng] 50-961
- Thermosiphon-based designs and applications for foundations built on permafrost. Zarling, J.P., et al. [1991.eng] 50-1733
- Temperature distribution**
- Analysis of thermal stresses around a cryosurgical probe. Rabin, Y., et al. [1996.eng] 50-5814
- Analytical modelling of heat transfer from a single slab in freezing. Dincer, I., [1995.eng] 50-3818
- Characteristics of winters in a high mountain region climate in a period of new climatic norms. Kveták, Š., et al. [1991.rus] 50-3521
- Computer simulation of heat conduction in freezing and thawing soils. Hashemi, H.T., et al. [1996.eng] 50-4605
- Detection of polar stratospheric clouds from satellite. Meerkotter, R., et al. [1992.eng] 50-221
- Eddy formation in the polar frontal zone of the Barents Sea. Kostianoi, A.G., et al. [1992.rus] 50-1262
- Experimental study of freezing of binary solutions. Zampino, M.A., et al. [1991.eng] 50-1243
- Formation of the air temperature field in the eastern Arctic and its effect on navigation. Dmitriev, A.A., [1990.rus] 50-334
- Formation of the winter temperature-wind complex in the Kola Bay region. Zykova, G.G., [1992.rus] 50-1275
- Freezing of a salt solution in a packed bed. Chelliah, S., et al. [1996.eng] 50-3909
- Freezing of an aqueous sodium chloride saturated packed bed. Choi, J., et al. [1993.eng] 50-5781
- Heat losses through outer protective enclosures with "Bridges of cold". Shapoval, A.F., et al. [1995.rus] 50-3086
- Iceberg active and passive sonar acoustics and navigation safety along the Northern Sea Route. Gavrilov, V.P., et al. [1996.eng] 50-4483
- Magnetic resonance imaging of gel phase transformations. Hong, J.S., et al. [1995.eng] 50-2739

Temperature effects

- Mixing in ice-covered lakes. Bengtsson, L., [1996.eng] 50-6579
- Natural convection for the melting of ice in porous media in a rectangular enclosure. Chang, W.J., et al. [1996.eng] 50-4533
- Testing facilities—self refrigerating units. Frost cabinet temperature distribution. Hill, J., [1977.eng] 50-2314
- Thermohaline characteristics of the shelf fronts in the western Bering Sea. Verkhunov, A.V., [1995.eng] 50-2533
- Thermomechanical response of the Greenland ice sheet to various climate scenarios. Calov, R., et al. [1996.eng] 50-4522
- Using heat exchange models for geocryological temperature monitoring. Izakson, V.I.U., et al. [1992.rus] 50-820
- Temperature effects**
- Action of HPLC6 antifreeze polypeptide in solution. Brooke-Taylor, C.A., et al. [1996.eng] 50-5298
- Aerosol uptake by model polar stratospheric cloud surfaces. Graham, J.D., et al. [1996.eng] 50-4144
- Aging and low-temperature cracking of asphalt concrete mixture. Kliever, J.E., et al. [1996.eng] 50-6426
- Air temperature effects on cold weather drilling mud dewatering. Wojtanowicz, A.K., et al. [1991.eng] 50-1708
- Airborne hydrogen peroxide measurements in supercooled clouds. Snider, J.R., et al. [1995.eng] 50-2114
- Antarctic Peninsula ice shelves retreat. Vaughan, D.G., et al. [1996.eng] 50-3354
- Arctic dwarf shrub response to simulated climatic warming. Michelsen, A., et al. [1996.eng] 50-5770
- Avalanches and their role in nourishment of the Inyl'chek Glacier. Zibakin, V.V., [1972.rus] 50-653
- Basic processes determining the rheological behavior of plastic-frozen ground under stress. Ukhov, S.B., et al. [1996.rus] 50-6827
- Biological phosphorus removal: effect of low temperature. Kumar, P., et al. [1996.eng] 50-4755
- Biological treatment of waste water containing glycols from deicing agents. Nitschke, L., et al. [1996.eng] 50-3619
- Calibration of a small, low-cost thermal infrared radiometer. Rapier, C.B., et al. [1996.eng] 50-6623
- Calibration of time domain reflectometry for measurement of liquid water in frozen soils. Seyfried, M.S., et al. [1996.eng] 50-3308
- Calorimetric determination of permafrost water-ice phase composition. Fortier, R., et al. [1996.eng] 50-4863
- Changes of model mixtures during freezing and drying. Shalev, E.I.U., et al. [1996.eng] 50-4531
- Characteristics of the meteorological regime of glaciers in Upper Svanetia during ablation. Voloshina, A.P., et al. [1972.rus] 50-525
- Characterization of a novel ice-nucleating bacterium. Kawahara, H., et al. [1995.eng] 50-1960
- Chemical variations between polar stratospheric cloud phases. Ravishankar, A.R., et al. [1996.eng] 50-3443
- Chemical weathering of rocks in the Hecla Hoek coal formations under polar climatic conditions. Chlebowski, R., [1989.pol] 50-2882
- Classical and quantum mechanical studies of ice Ih near the melting temperature. Gai, H.D., et al. [1996.eng] 50-3099
- Climatic controls on rates of solifluction: variations within Europe. Matthews, J.A., et al. [1993.eng] 50-849
- Climatic implications of ice microphysics. Liou, K.N., [1995.eng] 50-958
- CO₂ exchange in some vascular plants inhabiting the polar Urals. Gerasimenko, T.V., et al. [1996.eng] 50-6757
- Cold acclimation of arctic grass photosynthetic apparatus. Koroleva, O.I.A., [1996.eng] 50-6755
- Cold acclimation of rye leaves during freeze/thaw cycles. Uemura, M., et al. [1995.eng] 50-3343
- Cold acclimatization biochemistry of rapeseed tissues. Smolefska-Sym, G., et al. [1996.eng] 50-5463
- Cold resistance mechanisms in high desert Andean plants. Squeo, F.A., et al. [1996.eng] 50-5774
- Cold tolerance in tropical alpine plants. Beck, E., [1994.eng] 50-3048
- Comments on paper by P.S. Anderson. Makkonen, L., et al. [1996.eng] 50-6587
- Comparison between arctic and antarctic polar stratospheric clouds. Dye, J.E., et al. [1996.eng] 50-6542
- Concrete/reinforcing steel bond strength of low-temperature concrete. Schroeder, H.P., et al. [1996.eng] 50-4757
- Controls on CH₄ flux from an Alaskan boreal wetland. Moosavi, S.C., et al. [1996.eng] 50-6053
- Cooperativity and hydrogen bond network lifetime in liquid water. Lamanna, R., et al. [1995.eng] 50-5714
- Correction to paper by Grant et al. [1996.eng] 50-5968
- Crack velocities in freshwater and saline ice. Petrenko, V.F., et al. [1996.eng] 50-5299
- Creep, shrinkage, frost, and sulphate resistance of high strength concrete. Ghosh, S., et al. [1995.eng] 50-577
- Cryogenic properties of polymers. Yano, O., et al. [1995.eng] 50-1550
- Crystal structure of dichlorodifluoromethane. Pridmore, R.W., et al. [1996.eng] 50-4695
- Crystallization of ice in glycerol solutions. pt. I. Hey, J.M., et al. [1996.eng] 50-5813
- Deformation of ice under low stresses. Sego, D.C., et al. [1982.eng] 50-3787
- Deformation properties of saline frozen rocks. Brushkov, A.V., [1996.rus] 50-6829
- Denitrification of the polar winter stratosphere. Hamill, P., et al. [1990.eng] 50-6000

Temperature effects

- Design of capacitor to measure permittivity of supercooled aqueous solutions. Wolter, F., et al. [1996,eng] 50-5503
- Diffusive properties of polymer membranes prepared by freeze/thaw techniques. Hickey, A.S., et al. [1995,eng] 50-2698
- Diode laser humidity sensor for cold environments. Phase II final technical report. Silver, J.A., et al. [1991,eng] 50-4525
- Durability of microfiber-reinforced mortars. Pigeon, M., et al. [1996,eng] 50-4736
- Dynamic response of high arctic glaciers to global warming and their contribution to sea-level rise. Lam, J.K.W., et al. [1995,eng] 50-6618
- Early biochemical changes during acclimation of poplar to low temperature. Jouve, L., et al. [1995,eng] 50-3453
- Ecophysiological sensitivity of terrestrial vascular plants to climate change. Jonasson, S., [1995,eng] 50-1007
- Effect of electroporation on intracellular ice formation in rye leaf protoplasts. Chandrasekaran, M., et al. [1995,eng] 50-1465
- Effect of ethanol additives on odor detection of Alaskan gasolines. Zhao, X.H., et al. [1995,eng] 50-3393
- Effect of sea ice frost flowers on infrared surface observations. Martin, S., et al. [1996,eng] 50-5858
- Effect of temperature on the phenology of perennial plant species. Lappalainen, H., et al. [1994,eng] 50-3206
- Effects of anti-icing fluid on wing lift during supercooled precipitation. Bouchard, G., et al. [1995,eng] 50-3255
- Effects of dehydration and freezing stress on brown algae. Pearson, G.A., et al. [1995,eng] 50-1523
- Effects of freeze-thaw cycling on geomembrane sheets and their seams. Comer, A.L., et al. [1995,eng] 50-2864
- Effects of long-term elevation in air temperature and CO₂ concentration on frost hardness of Scots pine. Repo, T., [1994,eng] 50-3213
- Effects of total water content on dynamic properties of frozen soils. Fukuda, M., et al. [1991,eng] 50-1748
- Environmental factors influencing the biodegradation of petroleum hydrocarbons in cold seawater. Siron, R., et al. [1995,eng] 50-651
- Equilibrium constant for the reaction of ClO + O₂ <-> ClO₂. Demore, W.B., [1990,eng] 50-4732
- Estimating soil water content during global climatic warming. Velichko, A.A., et al. [1995,eng] 50-4115
- Evidence for arctic ozone depletion in late February and early March 1994. Manney, G.L., et al. [1995,eng] 50-4540
- Experimental studies of the interaction of oil with cryogenic rocks. Ershov, E.D., et al. [1996,eng] 50-6823
- Explanation of the density maximum in water. Cho, C.H., et al. [1996,eng] 50-4346
- Fatty acid adaptation in an antarctic bacterium—changes in primer utilization. Nichols, D.S., et al. [1996,eng] 50-4797
- Fluorimetric assessment of bacteria after freeze-thawing. Puchkov, E.O., et al. [1995,eng] 50-5865
- Fluvial morphology and streamflow on Deception Island, Antarctica. Inbar, M., [1995,eng] 50-4190
- Formation of the air temperature field in the eastern Arctic and its effect on navigation. Dmitriev, A.A., [1990,eng] 50-334
- Fracture in the compression of a brittle material—columnar grained ice. Wu, H.C., et al. [1974,eng] 50-3788
- Fracture toughness of freshwater ice—part I: experimental technique and results. Weber, L.J., et al. [1996,eng] 50-5158
- Fracture toughness of freshwater ice—part II: analysis and micrography. Weber, L.J., et al. [1996,eng] 50-5159
- Freeze-thaw studies on concrete structural elements. Ganga Rao, H.V.S., et al. [1993,eng] 50-5053
- Freezing and melting of mercury in porous glass. Kumzerov, I.U.A., et al. [1995,eng] 50-1132
- Freezing rate effects on colloid viscoelasticity. Sahagian, M.E., et al. [1995,eng] 50-1253
- Frost damage to northern trees during climatic warming. Hänninen, H., [1996,eng] 50-6631
- Frost durability of high strength concrete: effect of internal cracking on ice formation. Jacobsen, S., et al. [1996,eng] 50-6097
- Frost hardness of 16 European provenances of sessile oak growing in Scotland. Deans, J.D., et al. [1996,eng] 50-4329
- Frost heave due to ice lens formation in freezing soils. 1. Theory and verification. Sheng, D., et al. [1995,eng] 50-742
- Frost resistance of artificially deaerated pine needles. Taulavuori, K., et al. [1996,eng] 50-4151
- Fuel additive impairment of diesel fuel low temperature properties. Létoffé, J.M., et al. [1995,eng] 50-4252
- Germination properties of herb perennials on Mt. Fuji. Nishitani, S., et al. [1996,eng] 50-4343
- Grass photosynthesis variations under cold climatic conditions. Siutkina, A.V., et al. [1996,eng] 50-6754
- Growth of acidic polar stratospheric aerosols. Hamill, P., et al. [1996,eng] 50-4311
- Growth temperature preferences of fungal strains from Victoria Land, Antarctica. Zucconi, L., et al. [1996,eng] 50-4009
- Hydrological effects of hypothetical climate change in the East River basin, Colorado, USA. McCabe, G.J., Jr., et al. [1995,eng] 50-740
- Ice forming nuclei in the high Arctic. Bigg, E.K., [1996,eng] 50-4317
- Ice-nucleation properties of various bacterial species. Kiprianova, E.A., et al. [1995,eng] 50-3673
- Ice/supercooled water linear correlation length from Raman spectroscopy. Walrafen, G.E., et al. [1995,eng] 50-152
- Impacts of climate variability and change on Canadian wetlands. Woo, M.K., [1992,eng] 50-4805

- Influence of temperature on crystallization of lactose in ice-cream. Linney, Y.D., et al. [1995,eng] 50-2745
- Infrared spectroscopy of organics of planetological interest at low temperatures. Khanna, R.K., [1995,eng] 50-656
- Integral indicator of atmosphere and ocean state in the eastern Arctic. Dmitriev, A.A., et al. [1990,eng] 50-335
- Interaction of peroxytrinitic acid with solid H₂O ice. Li, Z.J., et al. [1996,eng] 50-4350
- Investigation of the dynamic loading of ice. Chizhov, V.E., [1996,eng] 50-5269
- Kinetics of freezing of dimethylacetylene. An electron diffraction study. Huang, J.F., et al. [1995,eng] 50-151
- Late Pleistocene equilibrium-line reconstructions in the northern Peruvian Andes. Rodbell, D.T., [1992,eng] 50-2549
- Lidar observations of polar stratospheric cloud growth. Poole, L.R., et al. [1988,eng] 50-4634
- Low summer temperatures: a potential mortality factor for high arctic soil microarthropods? Coulson, S.J., et al. [1995,eng] 50-1178
- Low temperature behaviour of CFRP prestressed concrete beams. Bryan, P.E., et al. [1996,eng] 50-5811
- Low temperature ecology of a plant root bacterium. Sun, X.Y., et al. [1995,eng] 50-2733
- Low temperature effects on saturated fibrous polymer composites. Starzhetskaia, T.A., et al. [1996,eng] 50-4005
- Low-temperature amorphous phase in a fragile glass-forming substance. Cohen, I., et al. [1995,eng] 50-5971
- Mathematical model of frost heave and thaw settlement in pavements—draft. Guymon, G.L., et al. [1986,eng] 50-4348
- Measurement of ice accretion and persistence at unmanned sites. Final report. Hill, G.E., [1990,eng] 50-3465
- Mechanical properties of materials at low temperatures. Wigley, D.A., [1968,eng] 50-6049
- Melting driven thermohaline convection. Bénard, C., et al. [1996,eng] 50-3611
- Microbial activity of tundra and taiga soils at sub-zero temperatures. Clein, J.S., et al. [1995,eng] 50-2025
- Micrometeorological effects on alpine vegetation reproduction. Bergman, P., et al. [1996,eng] 50-5494
- Microscopic dynamics of glycerol in its crystalline and glassy states. Bermejo, F.J., et al. [1996,eng] 50-4418
- Microscopy of xylem ray supercooling wood tissues response to freezing stress. Rustic, Z., et al. [1995,eng] 50-3341
- Microsporogenesis of the Siberian larch in western Siberian Zapolyar'e. Rozhdestvenskii, I.U.F., et al. [1995,eng] 50-3966
- Migration of chemical elements in frozen rocks. Chuvilin, E.M., et al. [1996,eng] 50-6820
- Mode coupling theory of structural relaxations. Götz, W., et al. [1995,eng] 50-1220
- Model calculations of ozone depletion in the arctic polar vortex for 1991/92 to 1994/95. Chipperfield, M.P., et al. [1996,eng] 50-3551
- Model of effects of global warming of water balance of subarctic forest ecosystems. Kellomäki, S., et al. [1996,eng] 50-4750
- Model of the glass transition. Mansfield, M.L., [1995,eng] 50-1445
- Model of wintertime stratospheric circulation. Eluszkiewicz, J., et al. [1995,eng] 50-1330
- Monitoring clathrate hydrate formation on ice surfaces. Pietrass, T., et al. [1995,eng] 50-2127
- Natural ice nucleus measurement under high supersaturation. Mizuno, H., et al. [1995,eng] 50-3719
- Nitric acid in polar stratospheric clouds. Pueschel, R.F., et al. [1990,eng] 50-5997
- North Atlantic paleoclimatic effects on primary productivity. Versteegh, G.J.M., et al. [1996,eng] 50-6620
- On the global variation of precipitating layer clouds. Ryan, B.F., [1996,eng] 50-3293
- On the polar stratospheric cloud formation potential of the northern stratosphere. Pawson, S., et al. [1995,eng] 50-2116
- Orientation dependence of elastic constants for ice. Parameswaran, V.R., [1987,eng] 50-4223
- Parameters of the distribution of electromagnetic waves in frozen ground. Frolov, A.D., et al. [1995,eng] 50-2509
- Patterns and causes of arctic plant community diversity. Walker, M.D., [1995,eng] 50-3889
- Permafrost foundation creep prediction from cone penetration tests. Ladanyi, B., et al. [1995,eng] 50-1825
- Phase composition of moisture in saline frozen ground. Motenko, R.G., et al. [1996,eng] 50-6837
- Phase equilibrium of soil water on the cryolithosphere. Konov, A.A., [1996,eng] 50-6812
- Phase transition of the hydrogen-bonded crystals and ice. Fujii, K., [1995,eng] 50-1112
- Phase transitions of ice confined in mesopores. Hansen, E.W., et al. [1996,eng] 50-4141
- Phase transitions of water films adsorbed on pyrogenic silica. Bogdan, A., et al. [1996,eng] 50-2021
- Pore-water pressures in freezing and thawing fine-grained soils. Eigenbrod, K.D., et al. [1996,eng] 50-4756
- Possible high ice particle production during graupel-graupel collisions. Takahashi, T., et al. [1995,eng] 50-3005
- Potential climatic change effects on western Canadian forests. Burton, P.J., et al. [1995,eng] 50-769
- Potential food applications of high-pressure effects on ice-water transitions. Kalichevsky, M.T., et al. [1995,eng] 50-1955
- Precipitation sensitivity to cloud microphysical parameters. Liu, Y.Q., et al. [1996,eng] 50-4353

- Premelting of ice in porous silica glass. Ishizaki, T., et al. [1996,eng] 50-6759
- Proton dynamics of doped ice. Akiyama, T., et al. [1996,eng] 50-6726
- Quantitative cold differential thermal analysis. Dunn, J.R., et al. [1965,eng] 50-4739
- Quasielastic neutron scattering in glass forming viscous liquids. Petry, W., et al. [1995,eng] 50-1224
- Relationship between temperature and glacier melting with middle troposphere temperature. Volkova, M.V., et al. [1973,eng] 50-433
- Relationship between water content and frost tolerance in shoots of hardwood seedlings. Calmé, S., et al. [1996,eng] 50-3296
- Relative humidity influences on cirrus cloud ice crystal formation. Heymsfield, A.J., et al. [1995,eng] 50-3259
- Relaxation dynamics of supercooled polymers. Parthun, M.G., et al. [1995,eng] 50-1572
- Results of black ice inhibiting filler use on asphalt test sections. Arand, W., [1995,eng] 50-2841
- Satellite measurements of cloud microphysical properties. Poix, C., et al. [1996,eng] 50-4571
- Seasonal variations in frost tolerance and sugar content of two *Plagiomnium* species. Rütten, D., et al. [1993,eng] 50-6524
- Second-order dynamic model for the frost hardness of trees. Leinonen, I., et al. [1995,eng] 50-1146
- Sedimentation during needle ice growth in soil. Branson, J., et al. [1996,eng] 50-3646
- Seed germination and seedling growth of *Carex doermitzii* growing on alpine zone of Mt. Fuji. Kibe, T., et al. [1993,eng] 50-956
- Simple relationship between the properties of isotopic water. Vedamuthu, M., et al. [1996,eng] 50-4184
- Simulation of clathrate hydrate thermal conductivity. Inoue, R., et al. [1996,eng] 50-5505
- Simulation of Scots pine regeneration under changing Finnish climate. Kellomäki, S., et al. [1995,eng] 50-1089
- Slow dynamics of water molecules in supercooled states. Gallo, P., et al. [1996,eng] 50-4293
- Small ice cap instability in the presence of fluctuations. Lee, W.H., et al. [1995,eng] 50-641
- Snow behaviour under compaction for the production of ice. Gaméda, S., et al. [1996,eng] 50-4047
- Solidification of pure liquids and liquid mixtures inside ducts and over external bodies. Fukusako, S., et al. [1994,eng] 50-2348
- Sounding of arctic polar stratospheric clouds, 1990. Hofmann, D.J., et al. [1990,eng] 50-4731
- Specifying fracture toughness ranks high in line pipe selection. Kiefner, J.F., et al. [1995,eng] 50-4397
- Spectra of mixed ices on Io. Dahmani, R., et al. [1996,eng] 50-6071
- Spectroscopic analysis of frozen cement paste microstructure. Olson, R.A., et al. [1995,eng] 50-1406
- Spectroscopy of deuterium oxide ice desorption and substrate wettability. Engquist, I., et al. [1995,eng] 50-1570
- Sputtering of water ice surfaces and the production of extended neutral atmospheres. Shi, M., et al. [1995,eng] 50-2774
- Statistical analysis of freezing tolerance indices from plant electrolyte variations. Anisko, T., et al. [1995,eng] 50-3612
- Stratospheric temperature variations in the north polar vortex. Zurek, R.W., et al. [1996,eng] 50-3070
- Strength and viscosity of ice. Zaretskii, I.U.K., et al. [1996,eng] 50-6825
- Strength and yield criteria of frozen soil. Ma, W., et al. [1995,eng] 50-5478
- Studies on ice nucleating behavior of AgI-AgBr-CuBr system. Radhakrishnan, T., et al. [1996,eng] 50-4290
- Sublimation of dry ice pellets used for cloud seeding. Kochubajda, B., et al. [1985,eng] 50-4593
- Subzero temperature water behavior in nonionic microemulsions, pt. I. Garti, N., et al. [1996,eng] 50-3409
- Supercooled liquids. Mohanty, U., [1995,eng] 50-1405
- Surface spectrometry of arctic seasonal atmospheric ozone variations. Pommerehne, J.P., et al. [1988,eng] 50-4636
- Survival and regeneration of dormant silver birch buds stored at super-low temperatures. Rynänen, L., [1996,eng] 50-6745
- Temperature and elasticity modulus of asphalt pavements. Balzer, S., [1992,eng] 50-2476
- Temperature dependence of static charging in ice growing by riming. Avila, E.E., et al. [1995,eng] 50-3004
- Temperature effects on porous solid capillary functions. Grant, S.A., et al. [1996,eng] 50-5965
- Temperature elevation effects on arctic soil insects. Coulson, S.J., et al. [1996,eng] 50-3529
- Temporal and spatial variation of CO₂, CH₄ and N₂O fluxes in a boreal minerotrophic pine fen. Silvola, J., et al. [1994,eng] 50-3219
- Thermal conductivity of normal and deuterated tetrahydrofuran clathrate hydrates. Andersson, O., et al. [1996,eng] 50-2719
- Thermodynamic evaluation of the cold resistance of steel elements. Shafrai, S.D., et al. [1995,eng] 50-721
- Thermodynamic theory of supercooled liquids. Kivelson, D., et al. [1995,eng] 50-943
- Thunderstorm electrification analysis: the dependence on the temperature-LWC diagram. Scavuzzo, C.M., et al. [1996,eng] 50-3342
- Tips on avoiding low-level icing. Schuyler, N., [1986,eng] 50-4403
- Triaxial experiments on iceberg and glacier ice. Gagnon, R.E., et al. [1995,eng] 50-1874

Temperature gradients

- Tropical alpine environments—plant form and function. Rundel, P.W., ed. et al. [1994,eng] 50-3043
- Uniaxial compressive strength of frozen ground at low subzero temperatures. Ershov, E.D., et al. [1996,rus] 50-6828
- Uniaxial constant compressive stress creep tests on sea ice. Sinha, N.K., et al. [1995,eng] 50-3000
- Use of thermal analysis in the development of a better understanding of frozen food stability. Goff, H.D., [1995,eng] 50-3357
- Using reed beds for winter operation of wetland treatment system for wastewater. Yin, H., et al. [1995,eng] 50-6067
- Variable leaf respiration rates of arctic and subarctic plant leaves. Collier, D.E., [1996,eng] 50-4368
- Vitamin C in the prevention and treatment of frostbite. Purkayastha, S.S., et al. [1992,eng] 50-4224
- Water in lichens at subzero temperatures. Schroeter, B., et al. [1995,eng] 50-2842
- Water rotation in supercooled aqueous solutions. Nakahara, M., et al. [1995,eng] 50-153
- Water vapor transfer through a hydrophilic film at subzero temperatures. Oszcewski, R.J., [1996,eng] 50-4498
- Winter storms over Canada. Stewart, R.E., et al. [1995,eng] 50-1852
- X-ray analysis of frozen clathrate hydrates. Bednarek, J., et al. [1996,eng] 50-4555
- X-ray and neutron scattering studies of the structure of water at a hydrophobic surface. Bellissent-Funel, M.C., et al. [1996,eng] 50-5713
- Temperature gradients**
- 1989 AASE temperature and wind measurements. Chan, K.R., et al. [1990,eng] 50-5980
- Case study in three-dimensional inverse methods: combining hydrographic, acoustic, and moored thermistor data in the Greenland Sea. Morawitz, W.M.L., et al. [1996,eng] 50-5167
- Climatic conditions of East Grønford Glacier. Brázdl, R., et al. [1989,eng] 50-2907
- Description of the Martian polar cap breeze. Fernández, W., [1995,eng] 50-3671
- Dielectric moisture measurement of frozen ground. Frolow, A.D., [1996,rus] 50-6835
- Differentiation of temperature and water vapor pressure during summer in NW Spitsbergen. Wójcik, G., et al. [1989,pol] 50-2909
- Differentiation of three-dimensional temperatures and atmospheric humidity (Spitsbergen). Przybylak, R., [1989,pol] 50-2906
- Effect of air bubbles in ice on charge transfer produced by asymmetric rubbing. Latham, J., [1965,eng] 50-3951
- Electrification of blowing snow. Latham, J., et al. [1965,eng] 50-3947
- Eocene continental climates and latitudinal temperature gradients. Greenwood, D.R., et al. [1995,eng] 50-1808
- Formation characteristics of the thermal regime of rocks in the Vitim River. Leibman, M.O., [1985,rus] 50-248
- Hydrological problems in the Ebba Basin and Petunia Gulf (Central Spitsbergen). Choiński, A., [1989,pol] 50-2919
- Numerical simulation of the Martian polar cap breeze. Fernández, W., [1995,eng] 50-3672
- Possibility of subsea cryolithogenesis. Shpolianskaia, N.A., [1990,rus] 50-1627
- Reestablishing periodic meteorological values at an avalanche station. Kharitonov, G.G., [1991,rus] 50-11
- Relationship between temperature and glacier melting with middle troposphere temperature. Volkova, M.V., et al. [1973,rus] 50-433
- Summer air temperature in the nival-glacial belt of the Central Asian mountain massif. Lebedeva, I.M., [1993,rus] 50-4104
- Supercooling and the Mpemba effect: when hot water freezes quicker than cold. Auerbach, D., [1995,eng] 50-5706
- Thermal radiation of water from 0° to 75°C, pt.3. Aivazian, G.M., [1996,eng] 50-5192
- Thermal stratification effects near a vertical ice slab in cold water. Kukulka, D.J., et al. [1993,eng] 50-3361
- Twenty-four hour course of wind temperatures at Arcotowski Station (King George Island, South Shetlands). Wójcik, G., et al. [1989,pol] 50-2904
- Vertical temperature gradient of the air in the high mountains of Central Asia. Davidovich, N.V., [1972,rus] 50-534
- Temperature inversions**
- Automated DIMM telescope for Antarctica. Dopita, M.A., et al. [1996,eng] 50-5270
- Case study of turbulent parameters during the antarctic winter. Yagüe, C., et al. [1995,eng] 50-1339
- Climatology of high-latitude air pollution as illustrated by Fairbanks and Anchorage, Alaska. Bowling, S.A., [1986,eng] 50-4910
- Features of using climatic data in calculating rock temperatures in mountainous countries. Leibman, M.O., [1983,rus] 50-315
- Space-time distribution of temperature inversions in the arctic atmospheric boundary layer. Nagurnyi, A.P., [1995,eng] 50-2728
- Structure and evolution of winter cyclones in the central United States and their effects on the distribution of precipitation. Part II: arctic fronts. Wang, P.Y., et al. [1995,eng] 50-1565
- Turbulent transfer over an antarctic ice shelf. Vinje, T.E., [1969,eng] 50-3953
- Temperature measurement**
- Active layer moisture migration in Alaskan soils. Outcalt, S.J., et al. [1996,eng] 50-4631

Temperature variations

- Analytical modelling of heat transfer from a single slab in freezing. Dincer, I., [1995,eng] 50-3818
- Analyzing the accuracy of calculating the surface layer temperature of the Barents Sea. Garbuzov, A.V., [1992,rus] 50-1268
- Asymmetric diurnal temperature change in the alpine region. Weber, R.O., et al. [1994,eng] 50-4790
- Automated nowcasting model of road surface temperature and state for winter road maintenance. Shao, J., et al. [1996,eng] 50-6571
- Calorimetric determination of permafrost water-ice phase composition. Fortier, R., et al. [1996,eng] 50-4863
- Calorimetric study of water two-dimensionally condensed on the homogeneous surface of a solid. Nagao, M., et al. [1995,eng] 50-2024
- Case study in three-dimensional inverse methods: combining hydrographic, acoustic, and moored thermistor data in the Greenland Sea. Morawitz, W.M.L., et al. [1996,eng] 50-5167
- Comparison of air temperature and humidity in standard and experimental shelters at Lomnický štít. Gajar, B., et al. [1991,eng] 50-3523
- Comparison of methods used to create estimate of air-freezing index. Steurer, P.M., et al. [1995,eng] 50-360
- Comparison of two techniques for R-value calculation, using winter in-situ data. Flanders, S.N., et al. [1995,eng] 50-1979
- Convective instability influence on freezing time of warm water. Maciejewski, P.K., [1996,eng] 50-4220
- Cryomicroscopic determination of ice crystal growth in the system 2,4-pentadiol/water. Mehl, P.M., [1996,eng] 50-2744
- Crystallization of ice in glycerol solutions, pt.1. Hey, J.M., et al. [1996,eng] 50-5813
- Data filtering for thermal mapping of road surface temperatures. Shao, J., et al. [1995,eng] 50-775
- Detection of polar stratospheric clouds from satellite. Meerkotter, R., et al. [1992,eng] 50-221
- Doppler spectroscopy of antarctic wind velocities. Nakajima, H., et al. [1995,eng] 50-3811
- Effect of color and texture on the surface temperature of asphalt concrete pavements. Berg, R.L., [1985,eng] 50-4362
- Estimation of freeze drying transport coefficients. Lombraña, J.I., et al. [1996,eng] 50-5692
- Experimental study of dielectric relaxation in supercooled alcohols and polyols. Murthy, S.S.N., [1996,eng] 50-4084
- Field-tested model for freeze protection of multiphase pipelines in arctic operations. Eager, K., [1991,eng] 50-1769
- Freezing and melting of mercury in porous glass. Kumzerov, I.U.A., et al. [1995,eng] 50-1132
- Frost durability of high strength concrete: effect of internal cracking on ice formation. Jacobsen, S., et al. [1996,eng] 50-6097
- Fuel additive impairment of diesel fuel low temperature properties. Létoffé, J.M., et al. [1995,eng] 50-4252
- Geophysical and laboratory methods for studying the mechanical characteristics of permafrost. Mamzelev, A.P., [1996,rus] 50-6833
- Heat flux monitoring during cryogenic pipe freezing: a case study. Tavner, A.C.R., et al. [1996,eng] 50-5477
- Heat flux through Weddell Sea ice cover. Lytle, V.I., et al. [1996,eng] 50-5263
- Ice-edge hydrography between Elephant I. and the South Orkneys, summer 1988-1989. Figueiras, F.G., et al. [1990,spa] 50-5525
- Innovations on a quartz crystal microbalance frost-point hygrometer. Kaluzhny, M., et al. [1995,eng] 50-414
- Kinetics of freezing of dimethylacetylene. An electron diffraction study. Huang, J.F., et al. [1995,eng] 50-151
- Lidar observations of stratospheric temperature above McMurdo Station, Antarctica. Di Donfrancesco, G., et al. [1996,eng] 50-5605
- Manual for freezing soil heave stress testing unit. Martin, R.T., [1974,eng] 50-4265
- Meaningful wind chill indicators derived from heat transfer principles. Brauner, N., et al. [1995,eng] 50-1552
- Measuring salt's effectiveness in New York. Hart, R.D., et al. [1995,eng] 50-1560
- Method for determining the thermal contact resistance of the thermal probe in situ. Rolie, K.C., et al. [1996,eng] 50-6474
- Method of calculating the sensitivity and instrument accuracy of borehole temperature equipment. Pakulin, V.A., [1983,rus] 50-317
- Ozone and temperature trends. Solarski, R., et al. [1991,eng] 50-2783
- Probe method for interstitial soil water sampling. Harrison, W.D., et al. [1981,eng] 50-3063
- Quantitative cold differential thermal analysis. Dunn, J.R., et al. [1965,eng] 50-4739
- Recent climatic trend and thermal response of permafrost in Saluit, northern Quebec, Canada. Wang, B.L., et al. [1996,eng] 50-6699
- Relaxation dynamics of supercooled polymers. Parthun, M.G., et al. [1995,eng] 50-1572
- Relaxation processes in supercooled carbohydrates. Gangasharan, et al. [1995,eng] 50-1571
- Research on a thermal conductivity measurement of supercooled water. Saito, A., et al. [1996,eng] 50-6475
- Rock mass response to subzero temperature fluctuations. Chislov, A.I., [1991,eng] 50-1745
- Satellite sounding of arctic stratospheric temperatures. Claud, C., et al. [1996,eng] 50-3445
- Stratospheric temperatures during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990,eng] 50-5977
- Subzero temperature water behavior in nonionic microemulsions, pt.1. Garti, N., et al. [1996,eng] 50-3409
- Supercooling and the Mpemba effect: when hot water freezes quicker than cold. Auerbach, D., [1995,eng] 50-5706
- Temperature measurements in the margin of ice stream B. 1993-1994. Harrison, W., et al. [1994,eng] 50-1889
- Temperature variability beneath Ronne Ice Shelf, Antarctica, from thermistor cables. Nicholls, K.W., [1996,eng] 50-2846
- Thermal investigation of crystal nucleation from a supercooled liquid. Mu, R., et al. [1996,eng] 50-4354
- Thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. Björnson, H., et al. [1996,eng] 50-4888
- Thermal stratification effects near a vertical ice slab in cold water. Kukulka, D.J., et al. [1993,eng] 50-3361
- Thickness and structural characteristics of the cryolithozone in northwest Siberia. Agalakov, S.E., [1996,rus] 50-6358
- U.S.G.S. Geotechnical Investigation—Beaufort Sea, Alaska. 1979, Vol.1. Bruggers, D.E., et al. [1979,eng] 50-3313
- Use of thermal analysis in the development of a better understanding of frozen food stability. Goff, H.D., [1995,eng] 50-3357
- Using heat exchange models for geocryological temperature monitoring. Izakson, V.I.U., et al. [1992,rus] 50-820
- Warm core in a polar low observed with a satellite microwave sounding unit. Forsythe, J.M., et al. [1996,eng] 50-4186
- See also:* Geothermometry
- Temperature monitoring**
- See also:* Monitors
- Temperature regime**
- See also:* Thermal regime
- Temperature variations**
- Alpine glacial advances derived from summer air temperature records. Bray, J.R., [1982,eng] 50-3380
- Application of pipe temperature simulator for Norman Wells oil pipeline. Nixon, J.F., et al. [1996,eng] 50-4306
- Arctic stratospheric cloud and temperature variations, 1989. Hofmann, D.J., [1990,eng] 50-5985
- Assessment of global climate model simulations of arctic air temperatures. Tao, X., et al. [1996,eng] 50-5532
- Asymmetric diurnal temperature change in the alpine region. Weber, R.O., et al. [1994,eng] 50-4790
- Characteristics of a sudden drop in average daily air temperatures in the western Arctic. Grakhovskii, G.N., [1990,rus] 50-325
- Chinese loess accumulation compared to Greenland ice core climatology. An, Z.S., et al. [1995,eng] 50-1065
- Climate change and forest management alternatives. Valsta, L., et al. [1994,eng] 50-3233
- CO₂ fluxes in peatlands under varying temperature and moisture conditions. Silvola, J., et al. [1994,eng] 50-3218
- Cold tolerance in tropical alpine plants. Beck, E., [1994,eng] 50-3048
- Comparing simulated glacial climate and paleodata: a reexamination. Broccoli, A.J., et al. [1996,eng] 50-4398
- Comparison of two techniques for R-value calculation, using winter in-situ data. Flanders, S.N., et al. [1995,eng] 50-1979
- Convective instability influence on freezing time of warm water. Maciejewski, P.K., [1996,eng] 50-4220
- Detection of climate change in the Arctic: an updated report. Ye, H.C., et al. [1994,eng] 50-3026
- Determining the bearing strength of frozen foundations with variable temperature. Kononov, A.A., [1989,rus] 50-2253
- Dynamics of heat exchange between sediment and water in a lake. Fang, X., et al. [1996,eng] 50-5970
- Effects of total water content on dynamic properties of frozen soils. Fukuda, M., et al. [1991,eng] 50-1748
- Estimating soil temperatures and frost in the lake effect snowbelt region, Michigan, USA. Isard, S.A., et al. [1995,eng] 50-1140
- European paleoclimatic changes based on coleopteran analysis. Coope, G.R., et al. [1995,eng] 50-6565
- Formation of the winter temperature-wind complex in the Kola Bay region. Zykova, G.G., [1992,rus] 50-1275
- General patterns in the transformation of macroprocesses in March-August. Bolotinskaya, M.Sh., [1990,rus] 50-326
- Glacio-meteorological and isotopic studies along the EGIG line, central Greenland. Fischer, H., et al. [1995,eng] 50-1873
- Greenland and United Kingdom paleotemperatures comparisons from Greenland snow accumulation rates. Lowe, J.J., et al. [1995,eng] 50-1082
- Influence of glaciation on the basin temperature regime. Johansen, H., et al. [1996,eng] 50-5328
- Interannual climate variability and snowpack in the western United States. Cayan, D.R., [1996,eng] 50-5529
- Isotopic calibration of Canadian arctic climatic change records. Beltrami, H., et al. [1995,eng] 50-3682
- Large Arctic temperature change in the Holocene. Cuffey, K.M., et al. [1995,eng] 50-629
- Long-term arctic stratospheric temperature variations. Nagatani, R.M., et al. [1990,eng] 50-5978
- Method of determining the surface boundary conditions for geocryological forecasting. Ershov, E.D., et al. [1996,rus] 50-6838
- Modeling the surface heat flux response to long-lived SST anomalies in the North Atlantic. Power, S.B., et al. [1995,eng] 50-639
- Moisture profiling of the cloudy winter atmosphere using combined remote sensors. Stankev, B.B., et al. [1995,eng] 50-158

Tensile properties

Terrain identification

- Natural orthogonal components of winter anomalies in the surface air temperature field. Vangengeim, T.G., et al. [1990.rus] 50-332
- Phase transformation in materials with nonuniform phase transition temperatures. Hong, J.S., et al. [1995.eng] 50-755
- Prediction of permafrost temperature in bed of structure from field data. Khristalev, L.N., et al. [1995.eng] 50-345
- Recent climate variability in the vicinity of the Antarctic Peninsula. King, J.C., [1994.eng] 50-2994
- Recent trends in maximum and minimum temperature threshold exceedences in the northeastern United States. DeGaetano, A.T., [1996.eng] 50-6572
- Reconstructing the climate of the Little Ice Age and its modeling. Kislov, A.V., et al. [1995.rus] 50-3773
- Regularities in the changes of composition of coarse detrital rock. Druzhinin, A.S., et al. [1993.rus] 50-121
- Results of testing of prognostic relationships for more accurate general meteorological forecasts. Bolotinskaya, M.Sh., et al. [1990.rus] 50-328
- Rock massif response to subzero temperature fluctuations. Chislov, A.I., [1991.eng] 50-1745
- Role of air-sea heat flux in Newfoundland Shelf sea temperature variability. Umoh, J.U., et al. [1995.eng] 50-4209
- Sea ice variations under doubled atmospheric carbon dioxide. Timbal, B., et al. [1995.eng] 50-2734
- Sensible heat flux measurements near a cold surface. Yen, Y.-C., [1995.eng] 50-879
- Snow and ice cover and climate sensitivity. Oerlemans, J., et al. [1995.eng] 50-3246
- Stratospheric temperature variations in the north polar vortex. Zurek, R.W., et al. [1996.eng] 50-3070
- Stratospheric temperatures during the 88-89 northern hemisphere winter. Newman, P.A., et al. [1990.eng] 50-5977
- Study of short term variability in oceanographic data with the aid of numerical filters. Potanin, V.A., et al. [1992.rus] 50-1267
- Synoptic-statistical method of forecasting air temperature in the Arctic. Ivanov, V.V., [1990.rus] 50-329
- Temperature effects on porous solid capillary functions. Grant, S.A., et al. [1996.eng] 50-5965
- Temperature elevation effects on arctic soil insects. Coulson, S.J., et al. [1996.eng] 50-3529
- Temperature fluctuations in climatic optima in the Holocene and Pleistocene. Klimanov, V.A., et al. [1995.rus] 50-4117
- Temperature variability beneath Ronne Ice Shelf, Antarctica, from thermistor cables. Nicholls, K.W., [1996.eng] 50-2846
- Temporal and spatial variation of CO₂, CH₄ and N₂O fluxes in a boreal minerotrophic pine fen. Silvola, J., et al. [1994.eng] 50-3219
- Thermal equilibrium in freezing unsaturated porous media. Tao, Y.X., et al. [1993.eng] 50-3362
- Tree ring value determination of climatic change in Switzerland. Vogel, R.B., et al. [1996.eng] 50-6714
- Tropical alpine climates. Rundel, P.W., [1994.eng] 50-3045
- Tensile properties**
- Computational modelling of brittle ice fragmentation. Tuhkuri, J., [1996.eng] 50-5942
- Crack nucleation in saline ice with interacting inhomogeneities. Wu, M.S., et al. [1995.eng] 50-1142
- Deformation of ice under low stresses. Sego, D.C., et al. [1982.eng] 50-3787
- Dynamic response of ice shedding on electrical transmission lines. Fekr, M.R., et al. [1995.eng] 50-5338
- Effects of freeze-thaw cycling on geomembrane sheets and their seams. Comer, A.L., et al. [1995.eng] 50-2864
- Fracture toughness of freshwater ice—part 1: experimental technique and results. Weber, L.J., et al. [1996.eng] 50-5158
- Freeze-thaw studies on concrete structural elements. Ganga Rao, H.V.S., et al. [1993.eng] 50-5053
- Ice fracture and spalling in ice-structure interaction. Zou, B., et al. [1996.eng] 50-5473
- Interpretation of in situ borehole ice strength measurement tests. Masterson, D.M., [1996.eng] 50-5049
- Large-scale loading and collapse of natural sea ice and natural-artificial ice laminates. Lichtenberger, G.J., [1991.eng] 50-1718
- Low carbon steels for pressure vessels subject to low temperatures. Haney, F., et al. [1996.eng] 50-5956
- Low temperature behaviour of CFRP prestressed concrete beams. Bryan, P.E., et al. [1996.eng] 50-5811
- Mechanical behavior of 18 Ni 200 grade maraging steel at cryogenic temperatures. Wagner, J.A., [1986.eng] 50-4101
- Microcracking during stress-relief of polycrystalline ice formed at high pressure. Meglis, I.L., et al. [1995.eng] 50-774
- Model of ductile behavior of columnar grained sea ice. Zhan, C., et al. [1996.eng] 50-5184
- Off-rift and rift-zone palaeostresses in northwest Iceland. Gudmundsson, A., et al. [1996.eng] 50-6207
- Pipe rigidity as a failure index under explosive loads. Abd El Halim, A.O., et al. [1996.eng] 50-5047
- Preliminary results from fatigue tests on in situ sea ice beams. Haskell, T.G., et al. [1996.eng] 50-5469
- Reinforcement percentage effects on bending strength of soil-ice mixtures. Nixon, W.A., et al. [1995.eng] 50-3558
- Sea ice data report. Kovacs, A., et al. [1970.eng] 50-3854
- Smart skis and other adaptive structures. Ashley, S., [1995.eng] 50-4618
- Some effects of conductor twisting on galloping. Richardson, A.S., Jr., [1980.eng] 50-3698
- Some tensile creep characteristics of frozen loess. Shen, Z.Y., et al. [1995.chi] 50-5622
- Strength characteristics of frozen soil under torsional loading. Peng, W.W., et al. [1995.chi] 50-5638
- Thermal stress measurements in asphalt concrete. Janoo, V.C., et al. [1993.eng] 50-760
- Transmission line ice measurements with tension monitoring systems. Seppa, T.O., [1996.eng] 50-5356
- Tension**
- See [also]: Interfacial tension
- Terminology**
- Albedo. Kellogg, W.W., [1996.eng] 50-4974
- Antarctic ice sheet. Drewry, D.J., [1996.eng] 50-4976
- Antarctic snow and ice sciences glossary. Japanese Society of Snow and Ice. Polar Snow and Ice Branch Committee (Nihon seppyo gakkai Kyokuchi seppyo bunkakai iinkai), [1982.jpn] 50-339
- Antarctica. Warren, S.G., [1996.eng] 50-4975
- Arctic. Barry, R.G., [1996.eng] 50-4977
- Avalanches. Armstrong, R.L., [1996.eng] 50-4978
- Cirrus clouds. Heymsfield, A.J., [1996.eng] 50-4979
- Cloud physics. Orville, H.D., [1996.eng] 50-4980
- Cores. Kneller, M., [1996.eng] 50-4981
- Encyclopedia of climate and weather. [1996.eng] 50-4973
- Frost. Henry, J.A., [1996.eng] 50-4982
- Geometry of heat and mass transfer in dry snow: a review of theory and experiment. Arons, E.M., et al. [1995.eng] 50-1401
- Glaciers, snow and ice—dictionary of glaciology, snow and avalanche research in Switzerland. Ziehr, W., ed. [1993.ger] 50-3385
- Glaciers. Meier, M.F., [1996.eng] 50-4983
- Global warming. Chandler, M.A., [1996.eng] 50-4984
- Greenhouse effect. Kellogg, W.W., [1996.eng] 50-4985
- Greenland Ice Sheet. Alley, R.B., [1996.eng] 50-4986
- Guide to interpretation of Swiss avalanche bulletins. Meister, R., ed. [1993.fre] 50-5075
- Hail. Knight, N.C., [1996.eng] 50-4987
- Hailstorms. Bluestein, H.B., [1996.eng] 50-4988
- History of the steppe-tundra concept. Hibbert, D., [1982.eng] 50-3375
- Ice age sea level. Gornitz, V., [1996.eng] 50-4990
- Ice ages. Kneller, M., [1996.eng] 50-4989
- Icebergs. Allison, I., [1996.eng] 50-4991
- Icelandic Low. Hordon, R.M., [1996.eng] 50-4992
- Japan Meteorological Agency sea ice terms. Japan Meteorological Agency, Marine Meteorology Department (Kishocho Kaiyo kishobu), [1975.jpn] 50-407
- Little Ice Ages. Grove, J.M., [1996.eng] 50-4993
- Multilingual ice terminology. Addendum I. International Association for Hydraulic Research. Section on Ice Problems, [1980.eng] 50-3241
- Multilingual vocabulary—snow and avalanches. International Mountain Rescue Commission, [1991.eng] 50-5292
- Nomenclature applied to deposits formed in glacial and ice-contact environments. Hill, H.K., et al. [1996.eng] 50-5711
- North Pole. Headland, R.K., [1996.eng] 50-4994
- On the granulometric composition of coarse detrital rocks. Sheshtev, D.M., [1993.rus] 50-120
- Ozone hole. Hall, T.M., [1996.eng] 50-4995
- Paleoclimates. Martinson, D.G., [1996.eng] 50-4996
- Polar lows. Rasmussen, E.A., [1996.eng] 50-4997
- Protalus formation mechanisms in Norwegian sediments. Shakesby, R.A., et al. [1995.eng] 50-3328
- Sea ice. Parkinson, C.L., [1996.eng] 50-4998
- Snowstorms. Cohen, J., [1996.eng] 50-4999
- Swedish contribution to Permafrost Association permafrost lexicon. Akerman, H.J., et al. [1993.eng] 50-4793
- Taiga climate. Bonan, G.B., [1996.eng] 50-5000
- Tundra climate. Weller, G., [1996.eng] 50-5001
- Wetlands and ground water in the United States. Stone, A.W., et al. [1994.eng] 50-971
- Wind chill. Kalkstein, L.S., [1996.eng] 50-5002
- Terraces**
- Arctic shelf in the last cryogenic epoch of the Late Pleistocene. Danilov, I.D., [1996.rus] 50-6383
- Contribution to the geomorphological problem of strandflats. Tietze, W., [1962.ger] 50-5743
- Development of the middle and lower course of the Weser River during the Late Pleistocene. Meinke, K., [1995.eng] 50-2746
- Distribution characteristics of taliks beneath lakes in the Bovanenok region. Anan'eva, G.V., et al. [1996.rus] 50-6360
- Dry tundra succession in Central Chukotka. Kucherov, I.B., [1995.eng] 50-3173
- Effect of the geographic environment on the occurrence of surface waters from a terraced tundra plain. Szczepanik, W., [1989.pol] 50-2918
- Engineering-geocryological regionalization of the central regions of northwestern Siberia. Belopukhova, E.B., et al. [1985.rus] 50-241
- Frost denudation landforms at the hinterland on the Qinghai-Xizang Plateau. Zhang, W.X., et al. [1989.chi] 50-1354
- Geological specifics in the natural dynamics of the subarctic cryolithozone. Oberman, N.G., [1996.rus] 50-6850
- Glacial genesis of the high terraces of the Lower Liswarta River. Kobojek, S., et al. [1993.pol] 50-3660
- Holocene shoreline displacement in southernmost Spitsbergen. Ziaja, W., et al. [1995.eng] 50-5537
- Ice age significance of Rhine terraces. Boenigk, W., [1990.ger] 50-1786
- Icelandic turf-banked terrace geomorphology. Douglas, T.D., et al. [1996.eng] 50-5498
- Late Pleistocene sea level fluctuations and marine terraces. Radtke, U., [1990.ger] 50-1795
- Marine and glacial Quaternary deposits of the southern Sørkapp Land, Spitsbergen. Wójcik, A., et al. [1993.eng] 50-2215
- Modelling mountain slopes from the Late Vistulian in Spitsbergen. Drecki, J., [1989.pol] 50-2881
- Monitoring soil condition in the northern Tibetan Plateau using SSM/I data. Chang, A.T.C., et al. [1996.eng] 50-6692
- Morphological characteristics of large deposits of ground ice in central Yamal. Parmuzin, S.I.U., et al. [1983.rus] 50-311
- New results from studies of layered ground ice in Yamal. Dubikov, G.I., et al. [1985.rus] 50-242
- On the sedimentary environment of the glaciofluvial terraces of the Tian Shan Mountains near Urumqi. Han, S.T., [1985.chi] 50-2002
- Paleogeographic conditions of continental synorogenesis on Central Yamal. Bolikhovskaya, N.S., et al. [1996.rus] 50-6351
- Paleogeographic significance of Norwegian block field periglacial processes. Sellier, D., [1995.fre] 50-4878
- Quaternary fluvio-morphological processes. Bibus, E., et al. [1995.eng] 50-2747
- Quaternary terraces and related deposits in the western Wind River Basin, Wyoming. Jaworowski, C., [1993.eng] 50-702
- Raised marine terraces on the western border of Petuniabukta, central Spitsbergen. Rygielski, W., et al. [1989.pol] 50-2886
- Regional stratigraphy and lithology of the Carpathian loess deposits in Przemyśl environs. Lanczot, M., [1995.eng] 50-2614
- Relative sea level in the area of Matane (Québec) from deglaciation to present day. Dionne, J.C., et al. [1995.fre] 50-5036
- Scottish landform examples. 8: Solifluction sheets in the Bowmont Valley, Cheviot Hills. Harrison, S., [1993.eng] 50-3015
- Stability of biogeocoenoses in the Far North. Mel'ner, L.I., [1990.rus] 50-1602
- State and salinity of soils in the littoral sections of the Kara Sea. Dubikov, G.I., et al. [1996.rus] 50-6376
- Studying seacoasts in the cryolithozone. Sovershaev, V.A., [1996.rus] 50-6408
- Submerged terraces in the Barents Sea. Lebesbye, E., et al. [1996.eng] 50-4876
- Valley bottoms in the late Quaternary. Schirmer, W., [1995.eng] 50-2748
- Terrain**
- Terrain performance. Norman Wells oil pipeline, Northern Canada. Harry, D.G., [1990.rus] 50-1625
- Terrain identification**
- Accuracy of SPOT digital elevation model and derivatives: utility for Alaska's North Slope. Sasowsky, K.C., et al. [1992.eng] 50-1448
- Acquisition and processing of remote sensing data on ore deposits. Guo, H.D., et al. [1993.chi] 50-2380
- Application of air photo to the analysis of ground ice. Liang, F.X., et al. [1989.chi] 50-1356
- Application of DTM to extraction of snowcover information from NOAA/AVHRR image. Feng, X.Z., et al. [1995.chi] 50-3983
- Application of subpace method in snow recognition. Liu, Z.K., et al. [1990.chi] 50-6659
- Avalanche hazard mapping with satellite data and a digital elevation model. Gruber, U., et al. [1995.eng] 50-2345
- Background classification for infrared seekers. Berger, R.H., [1991.eng] 50-765
- Canadian development and use of snow cover information from passive microwave satellite data. Goodison, B.E., et al. [1995.eng] 50-4177
- Classification of wetland and muskox terrain. Pietroniro, A., et al. [1996.eng] 50-5541
- Comparison of infrared radiometers used to gather background signature data. Berger, R.H., et al. [1995.eng] 50-2474
- Cryovolcanism on the icy satellites. Kargel, J.S., [1994.eng] 50-1860
- Determination of snowcovered area by satellite SAR imagery. Seglenieks, F., et al. [1995.eng] 50-3106
- Digital terrain information and its application in Nagqu area of Xizang. Lu, A.X., et al. [1995.chi] 50-3985
- Distributed snow process modeling: an image processing approach. Davis, R.E., et al. [1995.eng] 50-3108
- Establishment and application of DTM of the Qinghai-Xizang Plateau. Li, X., et al. [1995.chi] 50-3994
- Fuzzy mathematics in evaluating the tillability of land in Xinjiang. Ji, F., [1991.chi] 50-5109
- Fuzzy region segmentation of snow remote sensing imagery. Liu, Z.K., et al. [1990.chi] 50-6660
- General summary of the "Xinjiang 1:1,000,000 land resources map". Ji, F., et al. [1991.chi] 50-5108
- Geodetic support for Spitsbergen expedition. Rawiel, P., et al. [1994.ger] 50-1576
- High spatial and temporal resolution database for synthetic scene generation and validation. Bleiweis, M.P., et al. [1995.eng] 50-3756
- Improved fuzzy clustering algorithm for snow recognition. Liu, Z.K., et al. [1990.chi] 50-6658
- Investigation of the surface condition in Taklimakan Desert. Tsuchiya, K., et al. [1991.jpn] 50-1426
- Mapping of land use in the Taklimakan Desert. Sugihara, S., [1991.jpn] 50-1427
- Mapping of winter surface conditions at Camp Grayling, Michigan. Haugen, R.K., et al. [1992.eng] 50-738

Test chambers

- Mapping snow cover during the BOREAS winter experiment. Hall, D.K., et al. [1995,eng] 50-3105
- Numerical landscapes: static, kinematic and dynamic process-relations. Richards, K., et al. [1995,eng] 50-4153
- Optical processing of satellite images for land use planning in north central China. Liu, J.H., [1995,chi] 50-3996
- Pixel-scale ground snow survey for passive microwave study of the arctic snow cover. Woo, M.K., et al. [1995,eng] 50-3110
- Rapid calculation of direct radiation on sloping fields. Wang, J., et al. [1995,chi] 50-5629
- Sensor mapping of arctic wetland distribution. Morrissey, L.A., et al. [1996,eng] 50-4764
- Shortwave reflectance properties of arctic tundra landscapes. Hope, A.S., et al. [1996,eng] 50-4845
- Sino-Kazakhstan-Mongolia border area tectonics from satellite data. Yang, D.C., et al. [1993,chi] 50-2385
- Smart Weapons Operability Enhancement (SWOE) Joint Test and Evaluation (JT&E) Program. Final report. Welsh, J.P., [1994,eng] 50-2453
- Smart weapons operability enhancement synthetic scene generation process. Koenig, G.G., et al. [1995,eng] 50-3755
- Snow monitoring in the United Kingdom using NOAA AVHRR imagery. Lucas, R.M., et al. [1994,eng] 50-167
- Spatial analysis operation of background database of snow disaster. Sun, W.X., et al. [1995,chi] 50-3980
- Statistical validation of IR smart weapons scene generation. Welsh, J.P., et al. [1995,eng] 50-3754
- Studies on the method of image processing and analysis of lake ice and snow. Li, W.J., et al. [1995,chi] 50-3995
- Studies on the methods of extracting snow information from NOAA/AVHRR image. Li, W.J., et al. [1995,chi] 50-3982
- Study of extracting remote sensing information of snow disaster in Nagqu area of Xizang. Li, Z., et al. [1995,chi] 50-3981
- Study on snow disaster monitoring using remote sensing in Nagqu area of Xizang. Feng, X.Z., et al. [1995,chi] 50-3978
- Synthetic scene generation process for smart weapons. Welsh, J.P., et al. [1995,eng] 50-3834
- System of climatic geomorphology based on landscape typing. Hövermann, J., [1990,ger] 50-1782
- Topographic and thematic maps of the Spitsbergen Expedition, 1990-1992. Brunner, K., et al. [1994,ger] 50-1575
- Using computers for MSS image analysis in land use classification. Cheng, X.J., et al. [1991,chi] 50-5111
- See [also]: Geobotanical interpretation

Test chambers

- Experimental design for laboratory simulation of periglacial solifluction processes. Harris, C., et al. [1996,eng] 50-5778
- Preliminary assessment of design and performance of frost susceptibility testing facilities. Dudek, S., [1977,eng] 50-2313
- Turbine engine icing spray bar design issues. Bartlett, C.S., [1995,eng] 50-1654
- See [also]: Cold chambers; Wind tunnels

Test equipment

- Development of the original ice borehole jack. Masterson, D.M., et al. [1996,eng] 50-5051
- Frost heave—testing facilities. Kettle, R.J., [1977,eng] 50-2315
- Ice model test basin opens in Helsinki. [1989,eng] 50-5649
- Manual for freezing soil heave stress testing unit. Martin, R.T., [1974,eng] 50-4265
- Pegasus: a glacial-ice runway for wheeled flight operations at McMurdo Station. Blaisdell, G.L., et al. [1995,eng] 50-6501
- Preliminary assessment of design and performance of frost susceptibility testing facilities. Dudek, S., [1977,eng] 50-2313
- Testing facilities—self refrigerating units. Frost cabinet temperature distribution. Hill, J., [1977,eng] 50-2314
- Turbine engine icing spray bar design issues. Bartlett, C.S., [1995,eng] 50-1654
- Universal frost susceptibility test apparatus. Chamberlain, E.J., [1986,eng] 50-1974

Tests

- 1993 biennial report. University of Washington. College of Ocean & Fisheries Science. Applied Physics Laboratory, [1993,eng] 50-5203
- Development of optimum hull forms for icebreaking cargo ships for the Northern Sea Route. Kishi, S., et al. [1996,eng] 50-4473
- Experimental voyage through Northern Sea Route. Yamaguchi, H., [1996,eng] 50-4425
- Hydrodynamic performance of ship hull forms designed for the NSR cargo ship. Uto, S., et al. [1996,eng] 50-4474
- Ice resistance of three bow forms for the NSR cargo ship. Izumiyama, K., et al. [1996,eng] 50-4471
- Inflight icing part II: making hard choices. Steenblik, J.W., [1995,eng] 50-4703
- Inflight icing part III: operations. Steenblik, J.W., [1995,eng] 50-4704
- Response of a research aircraft to icing and evaluation of severity indices. Politovich, M.K., [1996,eng] 50-4406
- Series of model tests in ice of ice-going cargo ships for future traffic in the Northern Sea Route. Ishikawa, S., et al. [1996,eng] 50-4472
- Test program for aircraft ground anti-icing fluids. Myers, B.B., [1992,eng] 50-3797
- Testing of ships in ice. Rytvlin, A.I.A., et al. [1980,rus] 50-388
- See [also]: Cold weather tests; Environmental tests; Freeze thaw tests; Hardness tests; High pressure tests; Impact tests; Low temperature tests; Mechanical tests; Penetration tests; Pile load tests; Plasticity tests; Soil tests; Strain tests; Ultrasonic tests

Thaw consolidation

- Experimental design for laboratory simulation of periglacial solifluction processes. Harris, C., et al. [1996,eng] 50-5778
- Freeze-thaw effects of fine-grained soil permeability. Eigenbrod, K.D., [1996,eng] 50-6749
- Predictive model of frost heave and thaw weakening. Guymon, G.L., et al. [1985,eng] 50-2310
- Thaw settlement of seasonally frozen soil. Cheng, E.Y., et al. [1989,chi] 50-1377
- Thaw depth
- Active layer changes following forest tundra fire. Mackay, J.R., [1995,eng] 50-2807
- Active layer of perennially frozen ground as a natural self-regulating system. Krivoshechekov, V.S., [1996,rus] 50-6395
- Assessing effects on cryogenic terrain. Zotova, L.I., et al. [1996,rus] 50-6846
- Changes in the geocryological conditions of developed lower reaches and estuaries of northern rivers. Shvetsov, P.F., et al. [1991,rus] 50-1301
- Climatic determination of the permafrost active layer in the Hornsund region, SW Spitsbergen. Migah, K., [1989,pol] 50-2898
- Comparison of load restriction timings determined using FHWA guidelines and frost tubes. Yesiller, N., et al. [1996,eng] 50-4752
- Correlation between Pleistocene involutions in English soil and Canadian thermokarst. Murton, J.B., et al. [1995,eng] 50-1803

- Cryogenic state of soil in the cryolithozone (Yakutia). Gavril'ev, P.P., et al. [1996,rus] 50-6844
- Degradation of the cryolithozone in Russia under global climatic warming. Ershov, E.D., et al. [1996,rus] 50-6840
- Drilling waste disposal in the Arctic using below-grade freeze-back. Maund, T.E., et al. [1991,eng] 50-1697
- Drilling wastes management for Alaska's North Slope. Fristoe, B.R., [1991,eng] 50-1723
- Effect of climate warming on the Qinghai-Tibet Highway, China. Tong, C.J., et al. [1996,eng] 50-3830
- Effect of color and texture on the surface temperature of asphalt concrete pavements. Berg, R.L., [1985,eng] 50-4362
- Effect of introduced disturbances on the development of thermoerosional processes. Glavatskikh, V.V., et al. [1996,rus] 50-6404
- Engineering-geocryological environment and changes in natural conditions in Punginsk. Shamanova, I.I., et al. [1985,rus] 50-247
- Experimental study of the thermal regime of soils in the arctic regions of Western Siberia. Pavlov, A.V., et al. [1996,rus] 50-6388

- Exploration for hydrocarbon deposits and engineering preparation of oil and gas provinces. Akhmetshin, A.A., et al. [1996,rus] 50-6371
- Formation of the cryo-ecological segment in Central Yakutia. Fedorov, A.N., [1996,rus] 50-6843
- Frost action in subgrades of roads and airfields. Pufahl, D.E., [1996,eng] 50-6188
- Gelifluction rates as global change indicators. Kirkby, M.J., [1995,eng] 50-4195
- Ground penetrating radar monitoring of permafrost along the Norman Wells pipeline. Moorman, B.J., et al. [1994,eng] 50-5590
- Heat transfer and frost-thaw penetration in soil surrounding an inclusion of sand. Peck, L., et al. [1995,eng] 50-726
- Migration of chemical elements and ions in the seasonal thaw layer and upper layer of perennially frozen rocks. Leibman, M.O., et al. [1996,rus] 50-6848
- Model test of ground temperature variation of embankment. Ye, B.Y., et al. [1989,chi] 50-1396
- Permafrost variations at Mt Fenghuo in the Hoh Xil Mountains of Qinghai. Zhang, T.J., et al. [1989,chi] 50-1348
- Probability model for the structure of frozen strata in Central and Eastern Siberia. Iakupov, V.S., et al. [1996,rus] 50-6370

- Rapid field determination of upper layer parameters in the cryolithozone. Pavlov, A.V., [1990,rus] 50-1613
- Regionalization of territories according to degree of risk to cryogenic processes. Kuznetsova, I.L., et al. [1996,rus] 50-6396
- Seasonal and annual dynamics of frozen ground in the central highland of Iceland. Thórhallsdóttir, T.E., [1996,eng] 50-5499
- Solifluction as a function of strength in thawing soil. Bondarenko, G.I., [1996,rus] 50-6401
- Supporting permafrost bases for tower pile-drivers of vertical mine shafts while in operation. Izakson, V.I.U., et al. [1989,rus] 50-2251
- Tien Shan: trends of changes in the geocryological conditions. Gorbunov, A.P., et al. [1996,rus] 50-6841
- See [also]: Active layer

Thaw layer

- See [also]: Active layer
- Thaw weakening
- Active layer changes following forest tundra fire. Mackay, J.R., [1995,eng] 50-2807
- Amine freezing point depressant for soil stabilization. Hemstreet, D.A., et al. [1996,eng] 50-6144
- Comparison of load restriction timings determined using FHWA guidelines and frost tubes. Yesiller, N., et al. [1996,eng] 50-4752
- Effect of climate warming on the Qinghai-Tibet Highway, China. Tong, C.J., et al. [1996,eng] 50-3830

- Effect of color and texture on the surface temperature of asphalt concrete pavements. Berg, R.L., [1985,eng] 50-4362

- Field observations of frost action in intact and weathered Champlain Sea clay. Konrad, J.M., et al. [1995,eng] 50-580
- Foundation rehabilitation at ADOT/PPF Jim River Maintenance Camp. Rooney, J.W., et al. [1991,eng] 50-1768
- Frost action in subgrades of roads and airfields. Pufahl, D.E., [1996,eng] 50-6188
- Living on ice: problems of urban development in Canada's north. French, H.M., [1994,eng] 50-6099
- Mathematical model of frost heave and thaw settlement in pavements—draft. Guymon, G.L., et al. [1986,eng] 50-4348
- Microwave thawing of frozen soils and gravels. Lindroth, D.P., et al. [1995,eng] 50-359
- Open graded base to reduce thaw weakening in flexible pavements. Kestler, M.A., [1996,eng] 50-6179
- Permafrost and the environment in Alaska. Lotspeich, F.B., [1973,eng] 50-854
- Predictive model of frost heave and thaw weakening. Guymon, G.L., et al. [1985,eng] 50-2310
- Sedimentary structures of cold-climate coastal dunes, eastern Hudson Bay, Canada. Ruz, M.H., et al. [1995,eng] 50-3862
- Soil freeze-thaw effects on bank erodibility and stability. Gatto, L.W., [1995,eng] 50-2706
- Surface modifications to reduce thaw degradation of permafrost. Zarling, J.P., et al. [1996,eng] 50-6111
- Universal frost susceptibility test apparatus. Chamberlain, E.J., [1986,eng] 50-1974
- Upheaval buckling of a pipeline in an arctic environment. Quimby, T.B., et al. [1996,eng] 50-6125
- Winter-time convection in open-graded embankments. Goering, D.J., et al. [1996,eng] 50-3827

- See [also]: Artificial thawing; Defrosting; Geothermal thawing; Ground thawing; Melting

- Thawing
- Borehole method of determining the ice content and thermal properties of dispersed rocks. Rashkin, A.V., [1993,rus] 50-128
- Snow cover in the Siberian forest-steppe. Zykov, I.V., [1965,eng] 50-3424
- Snow cover observations in the Buryat ASSR. Nefed'eva, E.A., [1965,eng] 50-3425
- See [also]: Artificial thawing; Defrosting; Geothermal thawing; Ground thawing; Melting
- Thawing rate
- Microwave thawing of frozen soils and gravels. Lindroth, D.P., et al. [1995,eng] 50-359

Theories

- Arctic ozone hole—a myth or a possibility. Singh, O.N., et al. [1995,eng] 50-4529
- Diffuse interface analysis of ice nucleation in undercooled water. Gránásky, L., [1995,eng] 50-1279
- Effects of mammals on ecosystem change at the Pleistocene-Holocene boundary. Zimov, S.A., et al. [1995,eng] 50-3895
- Experimental closure of the heat and mass transfer theory of spheroidal hailstones. Greenan, B.J.W., et al. [1995,eng] 50-2117
- Glacial erosion as a consequence of subglacial sediment deformation. Boulton, G.S., [1996,eng] 50-4891
- Glacial isostatic uplift of Tibet as a consequence of a former ice sheet. Kuhle, M., [1995,eng] 50-6064
- Hindsight on river ice jam stability. Beltaos, S., [1996,eng] 50-6425
- Isotope techniques in permafrost investigations. Michel, F.A., [1989,eng] 50-2261
- Last Scottish ice-sheet: facts and speculative discussion. Sissons, J.B., [1981,eng] 50-3620
- Mode coupling theory of structural relaxations. Götz, W., et al. [1995,eng] 50-1220
- Origin of till sequences beneath mid-latitude ice sheets. Boulton, G.S., [1996,eng] 50-4243
- Problems in improving the reliability of geotechnical and their systematic analysis. Linkov, A.S., [1989,rus] 50-2305
- Propagation of sound above a finite layer of snow. Nicolas, J., et al. [1985,eng] 50-3699
- Supercooled liquids. Mohanty, U., [1995,eng] 50-1405
- Theory of atmospheric ice crystal growth and sublimation. Nelson, J.T., et al. [1996,eng] 50-4351
- Theory of lattice Boltzmann simulations of glacier flow. Bahr, D.B., et al. [1995,eng] 50-1883
- Thermodynamic theory of supercooled liquids. Kivelson, D., et al. [1995,eng] 50-943
- See [also]: Analysis (mathematics); Ice age theory

Thermal analysis

- Analysis of the transient response of a thermal energy storage unit. Kuznetsov, A.V., [1996,eng] 50-6472
- Analytical modelling of heat transfer from a single slab in freezing. Dincer, I., [1995,eng] 50-3818
- Capsule-type thermal energy storage system. Ishikawa, M., et al. [1996,eng] 50-6446
- Changes of model mixtures during freezing and drying. Shalaev, E.I.U., et al. [1996,eng] 50-4531
- Cold resistance mechanisms in high desert Andean plants. Squeo, F.A., et al. [1996,eng] 50-5774
- Comparison of load restriction timings determined using FHWA guidelines and frost tubes. Yesiller, N., et al. [1996,eng] 50-4752
- Comparison of two techniques for R-value calculation, using winter in-situ data. Flanders, S.N., et al. [1995,eng] 50-1979
- Conception for the rehabilitation of transportation infrastructures in northern regions. Ladanyi, B., [1994,fre] 50-4946
- Controlled melting in a thermal storage phase change material. Prasad, A., et al. [1996,eng] 50-6448

Thermal balance

- Convection and freezing around a cylinder in a saturated medium. Okada, M., et al. [1996,eng] 50-6455
- Crystallization of ice in glycerol solutions, pt.1. Hey, J.M., et al. [1996,eng] 50-5813
- Direct contact melting process on a curved wall coated with a porous layer. Oka, M., et al. [1996,eng] 50-6451
- Estimation of freeze drying transport coefficients. Lombrana, J.I., et al. [1996,eng] 50-5692
- Formation of ice layers in a straight walled, rectangular diffuser. Neumann, S.O., et al. [1996,eng] 50-6469
- Freezing of liquids in a laminar flow in a heat flux cooled circular duct. Prasad, A., et al. [1996,eng] 50-6463
- Freezing rate effects on colloid viscoelasticity. Sahagian, M.E., et al. [1995,eng] 50-1253
- Heat transfer and convection in an enclosure with a heat-conducting body. Oh, J.Y., et al. [1996,eng] 50-6473
- High pressure-differential thermal analysis of ice-water equilibrium at 1.5-5.0 GPa. Xu, Y.S., et al. [1995,eng] 50-3392
- Hybrid system of latent heat storage and spray flash evaporation. Miyatake, O., et al. [1996,eng] 50-6444
- Latent heat thermal energy storage system using spherical capsules. Saitoh, T., et al. [1996,eng] 50-6443
- Mechanical properties of materials at low temperatures. Wigley, D.A. [1968,eng] 50-6049
- Melting inside a cylinder filled with phase change material. Back, Y.R., et al. [1996,eng] 50-6457
- Nocturnal clouds and the thermal structure near the arctic mesopause in summer. Lübken, F.J., et al. [1996,eng] 50-5453
- Proceedings. International Symposium on Thermal Engineering and Sciences for Cold Regions, 5th, Ottawa, May 19-22, 1996. [1996,eng] 50-6428
- Protection of arctic bridge crossing by refrigerated foundation. Christopherson, A.B., et al. [1991,eng] 50-1734
- Quantitative cold differential thermal analysis. Dunn, J.R., et al. [1965,eng] 50-4739
- Seasonal nitrogen cycles on Pluto. Hansen, C.J., et al. [1996,eng] 50-4347
- Study on the behaviour of the direct contact melting under unsteady condition. Saito, A., et al. [1996,eng] 50-6449
- Subzero temperature water behavior in nonionic microemulsions, pt.1. Garu, N., et al. [1996,eng] 50-3409
- Tectonic significance of alpine eclogites. Spalla, M.L., et al. [1996,eng] 50-5572
- Temperature evolution of a chemically stratified lake. Spiegel, R.H., et al. [1996,eng] 50-6333
- Thermal performance of a planar latent heat storage unit for load shifting. Laouadi, A., et al. [1996,eng] 50-6468
- Thermal protection of concrete dams subject to freeze-thaw cycles. Léger, P., et al. [1995,eng] 50-576
- Three dimensional modelling of a soil heat exchanger-storage system for greenhouses. Gauthier, C., et al. [1996,eng] 50-6445
- Use of thermal analysis in the development of a better understanding of frozen food stability. Goff, H.D., [1995,eng] 50-3357
- Water in lichens at subzero temperatures. Schroeter, B., et al. [1995,eng] 50-2842
- Winter surface energy budget in Denver, Colorado. Ruffieux, D., [1995,eng] 50-2152
- X-ray and neutron scattering studies of the structure of water at a hydrophobic surface. Bellissent-Funel, M.C., et al. [1996,eng] 50-5713
- Thermal balance**
See [also]: Glacier heat balance; Heat balance
- Thermal conductivity**
Active layer thermal diffusivity from finite difference mathematical methods. Zhang, T., et al. [1995,eng] 50-1141
- Analysis of thermal stresses around a cryosurgical probe. Rabin, Y., et al. [1996,eng] 50-5814
- Application of foam insulation for remediation of degraded permafrost. Feklistov, V.N., et al. [1996,eng] 50-5472
- Application of pipe temperature simulator for Norman Wells oil pipeline. Nixon, J.F., et al. [1996,eng] 50-4306
- Calorimetric determination of permafrost water-ice phase composition. Fortier, R., et al. [1996,eng] 50-4863
- Cryogenic properties of polymers. Yano, O., et al. [1995,eng] 50-1550
- Effects of hydrology on the thermal conditions of the active layer. Woo, M.K., et al. [1994,eng] 50-5702
- Energy flow to arctic tundra surface and experiences of induced disturbances. Rydén, B.E., [1993,eng] 50-2209
- Forecasting gully erosion in Yamburg. Skubitskaja, M.G., [1996,eng] 50-6406
- Heat balance integral method and freezing problems. Lunardini, V.J., [1996,eng] 50-6429
- Heat transfer and convection in an enclosure with a heat-conducting body. Oh, J.Y., et al. [1996,eng] 50-6473
- Heat transfer and frost-thaw penetration in soil surrounding an inclusion of sand. Peck, L., et al. [1995,eng] 50-726
- Influence of glaciation on the basin temperature regime. Johansen, H., et al. [1996,eng] 50-5328
- Mathematical model for calculating thermal conductivity of snow subject to metamorphism. Gavril'ev, R.I., [1996,eng] 50-6497
- Method for determining the thermal contact resistance of the thermal probe in situ. Rolle, K.C., et al. [1996,eng] 50-6474
- Microstructure and thermal conductivity of a model snow cover. Sato, A., et al. [1995,jpn] 50-987
- Origin and thermal evolution of icy satellites. Coradini, A., et al. [1995,eng] 50-1069

- Penetrative convection induced by the freezing of seawater. Hadji, L., et al. [1996,eng] 50-6761
- Quantitative cold differential thermal analysis. Dunn, J.R., et al. [1965,eng] 50-4739
- Radioactive heating of porous comet nuclei. Prialnik, D., et al. [1995,eng] 50-1464
- Research on a thermal conductivity measurement of supercooled water. Saito, A., et al. [1996,eng] 50-6475
- Simulation of clathrate hydrate thermal conductivity. Inoue, R., et al. [1996,eng] 50-5505
- Soil thermal properties for the design of underground structures in cold regions. Steinmanis, J.E., et al. [1996,eng] 50-6146
- Sounding to determine the thermophysical properties of frozen ground and bedrock. Gavril'ev, R.I., [1993,rus] 50-124
- Thermal conductivity of model ice comet surfaces. Ibadinov, Kh.I., et al. [1987,eng] 50-1770
- Thermal conductivity of normal and deuterated tetrahydrofuran clathrate hydrates. Andersson, O., et al. [1996,eng] 50-2719
- Thermal insulating geosynthetics as a soil protective cover substitute. Deutsch, W.L., Jr., [1995,eng] 50-2866
- Urea foam covers for remediation of degraded permafrost. Feklistov, V.N., et al. [1996,eng] 50-6476
- Thermal diffusion**
Active layer moisture migration in Alaskan soils. Outcalt, S.I., et al. [1996,eng] 50-4631
- Active layer thermal diffusivity from finite difference mathematical methods. Zhang, T., et al. [1995,eng] 50-1141
- Advective-diffusive heat transfer in snow. Albert, M.R., [1995,eng] 50-945
- Cool thermal discharges from ice melting with specified heat fluxes on the boundary. Yeh, H.M., et al. [1996,eng] 50-5521
- Diffusive properties of polymer membranes prepared by freeze/thaw techniques. Hickey, A.S., et al. [1995,eng] 50-2698
- Experimental study of freezing of binary solutions. Zampino, M.A., et al. [1991,eng] 50-1243
- Freezing of a salt solution in a packed bed. Chelliah, S., et al. [1996,eng] 50-3909
- Heat balance integral method and freezing problems. Lunardini, V.J., [1996,eng] 50-6429
- Melting driven thermohaline convection. Bénard, C., et al. [1996,eng] 50-3611
- Natural ice nucleus measurement under high supersaturation. Mizuno, H., et al. [1995,eng] 50-3719
- Penetrative convection induced by the freezing of seawater. Hadji, L., et al. [1996,eng] 50-6761
- Real-time operational forecasting on shipboard of the Icelandic Faeroe frontal variability. Robinson, A.R., et al. [1996,eng] 50-4742
- Simulation and observation of ice formation (freeze-over) in a lake. Fang, X., et al. [1996,eng] 50-5466
- Slow dynamics of water molecules in supercooled states. Gallo, P., et al. [1996,eng] 50-4293
- Thermal calculation for anti-icer with micro-ejector. Qui, X.G., et al. [1995,eng] 50-1067
- Thermosiphon-based designs and applications for foundations built on permafrost. Zarling, J.P., et al. [1991,eng] 50-1733
- Use of thermal analysis in the development of a better understanding of frozen food stability. Goff, H.D., [1995,eng] 50-3357
- Vertical mixing processes in the western Weddell Sea. Robertson, R., et al. [1995,eng] 50-569
- Winter surface energy budget in Denver, Colorado. Ruffieux, D., [1995,eng] 50-2152
- Thermal drills**
Hot water drilling in antarctic ice for neutrino detectors. Koci, B.R., et al. [1996,eng] 50-6467
- Thermal effects**
See [also]: Temperature effects
- Thermal expansion**
Field measurements of ice loads: thermal loads on hydro-electric structures. Comfort, G., et al. [1994,eng] 50-853
- Freeze-thaw studies on concrete structural elements. Ganga Rao, H.V.S., et al. [1993,eng] 50-5053
- Method for continuous measurement of ice cover thickness. Nordell, B., et al. [1995,eng] 50-1145
- Model of shoreward movement of grounded lake ice. Sasaki, T., et al. [1995,eng] 50-3329
- Pressure, salinity, and maximum density temperature of sea water. Kulkula, D.J., et al. [1996,eng] 50-6441
- Saturated cemented porous material permeability during freezing. Kralj, B., et al. [1996,eng] 50-5024
- Thermal stresses on mine tunnels in frozen rock. Izakson, V.I.U., [1996,eng] 50-6495
- Upheaval buckling of a pipeline in an arctic environment. Quimby, T.B., et al. [1996,eng] 50-6125
- Ventilated cap system for the ridge of a roof. Sells, G.L., [1995,eng] 50-3466
- Thermal imagery**
See [also]: Infrared photography
- Thermal insulation**
Blow molding process for moldings with foam cores. Hatakeyama, Y., [1993,eng] 50-3487
- Case study of insulated pavement in Jackman, Maine. Kestler, M.A., et al. [1995,eng] 50-1155
- Church building foundation retrofit on Saint Lawrence I. Crowther, G.S., [1996,eng] 50-6130
- Comparison of two techniques for R-value calculation, using winter in-situ data. Flanders, S.N., et al. [1995,eng] 50-1979

Thermal regime

- Effect of soil-ground and surface conditions on the insulating properties of snow cover. Konstantinov, P.I.A., [1996,rus] 50-6393
- Energy saving building systems based on advanced hollow core slab technology. Kajava, A., [1984,eng] 50-3160
- Evaluation of vacuum-insulated tubing for paraffin control at Norman Wells. Purdy, I.L., et al. [1991,eng] 50-1727
- Field observations of instrumented highway sections with different frost protections. Konrad, J.M., et al. [1996,eng] 50-6161
- Frost resistance of surface layer of concrete with permeable sheet. Sugawara, T., et al. [1995,eng] 50-2656
- Ground penetrating radar monitoring of permafrost along the Norman Wells pipeline. Moorman, B.J., et al. [1994,eng] 50-5590
- Insulating structure. Ericsson, B., [1989,eng] 50-2340
- Long-term evaluations of insulated roads and airfields in Alaska. Esch, D.C., [1995,eng] 50-1156
- Low-temperature period countermeasures during concrete jacking of the Satsunagawa Dam. Yasunaka, S., et al. [1995,jpn] 50-6737
- Method for determining the thickness of insulation layer of foundation. Ding, D.W., et al. Lanzhou Institute of Glaciology and Geocryology, Ministry of Railways, Northwest Institute. Heilongjiang Provincial Institute of Water Conservancy, Working Group for Thermal Insulation of Foundations, [1989,chi] 50-1374
- Protecting water meters from freezing. Kotry, J., [1992,eng] 50-3559
- Railway on permafrost in Siberia. Gravesen, H., et al. [1995,eng] 50-2960
- Thermal and vapor performance of insulated assemblies. Carlson, A.R., [1996,eng] 50-6139
- Thermal anti-icing of aircraft structures. Arnold, M.J., et al. [1993,eng] 50-2234
- Thermal insulating geosynthetics as a soil protective cover substitute. Deutsch, W.L., Jr., [1995,eng] 50-2866
- Thermal protection of concrete dams subject to freeze-thaw cycles. Léger, P., et al. [1995,eng] 50-576
- Thermal recultivation of permafrost using a foam screen in the Arctic North. Feklistov, V.N., et al. [1990,rus] 50-1603
- Thermophysiological characteristics of protective clothing for forestry workers. Meinander, H., et al. [1994,fin] 50-1093
- Turnover and conservation of nutrients in the pachycaul *Senecio keniodendron*. Beck, E., [1994,eng] 50-3054
- Upheaval buckling of a pipeline in an arctic environment. Quimby, T.B., et al. [1996,eng] 50-6125
- Urea foam covers for remediation of degraded permafrost. Feklistov, V.N., et al. [1996,eng] 50-6476
- Use of alternative materials in pavement frost protection. Doré, G., et al. [1995,eng] 50-1157
- Using district heating pipes for freeze protection of sewer pipes. Reeve, H.E., et al. [1996,eng] 50-6440
- World Oil's handbook of arctic well completions. Goodman, M.A., [1978,eng] 50-2057
- See [also]: Cellular plastics; Pipeline insulation
- Thermal measurements**
See [also]: Temperature measurement
- Thermal processes**
See [also]: Hydrothermal processes
- Thermal properties**
Borehole method of determining the ice content and thermal properties of dispersed rocks. Rashkin, A.V., [1993,rus] 50-128
- Borehole method of determining the ice content and thermal properties of dispersed rocks. Rashkin, A.V., [1993,rus] 50-128
- Competing roles of heat and freshwater flux in forcing thermohaline oscillations. Pierce, D.W., et al. [1995,eng] 50-598
- Cryogenic properties of polymers. Yano, O., et al. [1995,eng] 50-1550
- Fuel additive impairment of diesel fuel low temperature properties. Létoffé, J.M., et al. [1995,eng] 50-4252
- Thermal insulating geosynthetics as a soil protective cover substitute. Deutsch, W.L., Jr., [1995,eng] 50-2866
- See [also]: Ice thermal properties; Permafrost thermal properties; Snow thermal properties; Specific heat
- Thermal radiation**
Calculating thermal and water resources of small river catchment areas in Siberia: part 1. Karnatsevich, I.V., [1989,rus] 50-133
- Conduction in convecting and radiating fins and fin assemblies. Aziz, A., et al. [1995,eng] 50-2455
- Effect of microclimate on road superstructures. Final report. Dysli, M., et al. [1986,frt] 50-3320
- Evaluation of surface radiative flux parameterizations for use in sea ice models. Key, J.R., et al. [1996,eng] 50-3451
- Monitoring winter hydrologic characteristics of lakes by microwave radiometry. Bordoniskii, G.S., et al. [1995,eng] 50-1402
- Regional variations of moist static energy flux into the Arctic. Overland, J.E., et al. [1996,eng] 50-3816
- Thermal radiation of water from 0° to 75°C, pt.3. Alivazian, G.M., [1996,eng] 50-5192
- Thermal regime**
Active layer thermal diffusivity from finite difference mathematical methods. Zhang, T., et al. [1995,eng] 50-1141
- Application of foam insulation for remediation of degraded permafrost. Feklistov, V.N., et al. [1996,eng] 50-5472
- Application of pipe temperature simulator for Norman Wells oil pipeline. Nixon, J.F., et al. [1996,eng] 50-4306

Thermal stresses

- Basis for the effectiveness of using semiconductor heat pumps for mining in the North. Sleptsov, V.I., [1992.rus] 50-815
- Calculating complex forms of pipeline icing. Popov, I.U.A., et al., [1995.rus] 50-3441
- Case for cold-base continental ice sheets—a transient thermal model. Heine, J.T., et al., [1996.eng] 50-4890
- Construction effects on soil temperature in Noril'sk. Kadkina, E.L., [1990.rus] 50-1617
- Cryolithozone of Western Siberia (thermal condition, database and mapping). An, V.V., et al., [1996.rus] 50-6359
- Depth hoar influence on permafrost thermal regime. Zhang, T., et al., [1996.eng] 50-6585
- Effect of technogenic disturbances on the thermal regime of soils in Central Yakutia. Skriabin, P.N., et al., [1996.rus] 50-6394
- Estimating changes in the temperature regime and condition of rocks based on the analysis of climatic data. Ershov, E.D., et al., [1996.rus] 50-6387
- Experimental design for laboratory simulation of periglacial solifluction processes. Harris, C., et al., [1996.eng] 50-5778
- Experimental study of the thermal regime of soils in the arctic regions of Western Siberia. Pavlov, A.V., et al., [1996.rus] 50-6388
- Filtration permeability of permafrost. Olovin, B.A., [1993.rus] 50-89
- Forecasting the thermal regime of thin-walled moored structures under Arctic conditions. Shkola, A.V., et al., [1992.rus] 50-757
- Formation characteristics of the thermal regime of rocks in the Vitim River. Leibman, M.O., [1985.rus] 50-248
- Foundation heave induced by a subgrade cooling system over permafrost. Scher, R.L., [1991.eng] 50-1737
- Foundation rehabilitation at ADOT/PF Jim River Maintenance Camp. Rooney, J.W., et al., [1991.eng] 50-1768
- Geomorphic effects of the retreat of Jamapa Glacier. Pico de Orizaba Volcano (Mexico). Palacios, D., et al., [1996.eng] 50-5578
- High-temperature permafrost as building foundation. Sal'nikov, P.I., [1993.rus] 50-109
- Ice-thermal regime at front deltas of rivers of the Laptev Sea. Nalimov, I.U.V., [1995.eng] 50-2070
- Modeling the heating and melting of sea ice through light absorption by microalgae. Zeebe, R.E., et al., [1996.eng] 50-2844
- On filtering consolidation of ground during pre-construction thawing. Barsgein, R.M., et al., [1996.rus] 50-6831
- On the estimation of frost loads. Rajani, B., et al., [1996.eng] 50-6751
- Operating chambered shafts in frozen rock. Tiunin, V.P., et al., [1992.rus] 50-808
- Prospects for using solar energy technology in Transbaikalia. Zhelezniak, I.I., et al., [1993.rus] 50-110
- Recent climatic trend and thermal response of permafrost in Sal-luit, northern Quebec, Canada. Wang, B.L., et al., [1996.eng] 50-6699
- Role of climate in periglacial solifluction. Harris, C., [1993.eng] 50-845
- Siberian tundra CO₂ flux as a source of seasonal CO₂ variations. Zimov, S.A., et al., [1996.eng] 50-5868
- Support of vertical-shaft collar under complex geocryological conditions. Izakson, V.I.U., et al., [1995.eng] 50-417
- Thermal calculations for pipe laying in frozen ground. Danielian, I.U.S., et al., [1990.rus] 50-1618
- Thermal environments of arctic soil organisms during winter. Coulson, S.J., et al., [1995.eng] 50-2811
- Thermal regime of Holocene Greenland ice sheet moraine formation. Van Tatenhove, F.G.M., et al., [1996.eng] 50-5582
- Thermal regime of Holocene Greenland ice sheet moraine formation. Van Tatenhove, F.G.M., et al., [1996.eng] 50-5582
- Thermal regime of ice covered Swedish lakes. Bengtsson, L., et al., [1994.eng] 50-5696
- Thermal regime of sub-polar glaciers mapped by multi-frequency radio-echo sounding. Björnson, H., et al., [1996.eng] 50-4888
- Thermomechanical response of the Greenland ice sheet to various climate scenarios. Calov, R., et al., [1996.eng] 50-4522
- Use of fractal parameters to detect active layer heat transfer. Hinkel, K.M., et al., [1995.eng] 50-1138
- Thermal stresses**
- Aging and low-temperature cracking of asphalt concrete mixture. Klierer, J.E., et al., [1996.eng] 50-6426
- Analysis of thermal stresses around a cryosurgical probe. Rabin, Y., et al., [1996.eng] 50-5814
- Annual variation of the temperature field in a concrete dam. Daoud, M., et al., [1996.eng] 50-6439
- Characterization of mortars as surface repair materials. Mirza, J., [1992.eng] 50-2759
- Durability issues of FRP composites in offshore structures. Dutta, P.K., [1995.eng] 50-217
- Field measurements of ice loads: thermal loads on hydro-electric structures. Comfort, G., et al., [1994.eng] 50-853
- Freeze-thaw studies on concrete structural elements. Ganga Rao, H.V.S., et al., [1993.eng] 50-5053
- Glacial influence on offshore Norwegian sediment properties. Sætem, J., et al., [1996.eng] 50-5320
- Growth temperature preferences of fungal strains from Victoria Land, Antarctica. Zuconco, L., et al., [1996.eng] 50-4009
- Influence of the properties of porous media on the durability of frozen calcareous rocks. Bellanger, M., et al., [1996.eng] 50-4862

- Investigation of the stress development during cryogenic pipe freezing. Keary, A.C., et al., [1996.eng] 50-6438
- Late Pleistocene deposits at Block Fen, Cambridgeshire, England. West, R.G., et al., [1995.eng] 50-6214
- Low temperature cracking and rutting in asphalt concrete pavements. Vinson, T.S., et al., [1996.eng] 50-6192
- Low-temperature environmental testing system design—Part 1. Lynde, P.G., et al., [1996.eng] 50-2457
- Low-temperature period countermeasures during concrete jacking of the Satsunagawa Dam. Yasunaka, S., et al., [1995.jpn] 50-6737
- Micromechanical study on deterioration of concrete due to freezing and thawing. Hori, M., et al., [1995.eng] 50-2684
- Paleoecological significance of Quaternary permafrost relics in arctic Canada. Murton, J.B., [1996.eng] 50-3645
- Perspectives of plant cold tolerance: physiology and molecular responses. Kaye, C., et al., [1995.eng] 50-4085
- Primary and secondary containment of hazardous substances in cold regions with HDPE liner. Richards, F.T., et al., [1991.eng] 50-1710
- Sea ice mechanics related to thermally-induced stresses and fracturing in pack ice. Lewis, J.K., et al., [1995.eng] 50-6290
- Thermal protection of concrete dams subject to freeze-thaw cycles. Léger, P., et al., [1995.eng] 50-576
- Thermal stress measurements in asphalt concrete. Janoo, V.C., et al., [1993.eng] 50-760
- Thermal stresses on mine tunnels in frozen rock. Izakson, V.I.U., [1996.eng] 50-6495
- Thermistors**
- Automated measuring system ASI-500-1 for studying the properties of frozen ground. Ivanov, A.I., et al., [1983.rus] 50-318
- Case study in three-dimensional inverse methods: combining hydrographic, acoustic, and moored thermistor data in the Greenland Sea. Morawitz, W.M.L., et al., [1996.eng] 50-5167
- Method for determining the thermal contact resistance of the thermal probe in situ. Rolfe, K.C., et al., [1996.eng] 50-6474
- Method of calculating the sensitivity and instrument accuracy of borehole temperature equipment. Pakulin, V.A., [1983.rus] 50-317
- Temperature variability beneath Ronne Ice Shelf, Antarctica, from thermistor cables. Nicholls, K.W., [1996.eng] 50-2846
- Thermocouples**
- Flowthrough rockfill embankments: behavior in subzero temperatures. Hansen, D., et al., [1995.eng] 50-1841
- Thermodynamic properties**
- Adsorption and desorption of water on single crystal MgO(100): the role of surface defects. Stirniman, M.J., et al., [1996.eng] 50-5937
- Calculation of free energy for molecular crystals by thermodynamic integration. Báez, L.A., et al., [1995.eng] 50-1951
- Calorimetric study of water two-dimensionally condensed on the homogeneous surface of a solid. Nagao, M., et al., [1995.eng] 50-2024
- Classical and quantum mechanical studies of ice Ih near the melting temperature. Gai, H.D., et al., [1996.eng] 50-3099
- Clathrate-like structures in supercooled water. Walrafen, G.E., et al., [1995.eng] 50-155
- Diffuse interface analysis of ice nucleation in undercooled water. Gránásky, L., [1995.eng] 50-1279
- Dipole moment of the water molecule in the condensed phase: a periodic Hartree-Fock estimate. Gatti, C., et al., [1995.eng] 50-3817
- Dispersion-force effects in interfacial premelting of ice. Wilen, L.A., et al., [1995.eng] 50-2134
- Electric fields and charges near 0°C in stratiform clouds. Shepherd, T.R., et al., [1996.eng] 50-5821
- Energetics of framework formation in cubic clathrate hydrates. Kosiakov, V.I., et al., [1995.eng] 50-3677
- Erratum for paper by K. Fujii. Fujii, K., [1996.eng] 50-5938
- Evaporation rate, free energy, and entropy of amorphous water at 150 K. Speedy, R.J., et al., [1996.eng] 50-5920
- Explanation of the density maximum in water. Cho, C.H., et al., [1996.eng] 50-4346
- Freeze concentration by layer crystallization. Flesland, O., [1995.eng] 50-5943
- Geometry and energy calculations of the HS-III polyhedral gas hydrate framework. Kosiakov, V.I., et al., [1995.eng] 50-3676
- Helium atom scattering study of water adsorption on the NaCl(100) single crystal surface. Bruch, L.W., et al., [1995.eng] 50-412
- Homogeneous nucleation in supercooled molecular clusters. Bartell, L.S., et al., [1995.eng] 50-1280
- Investigation of the dynamic loading of ice. Chizhov, V.E., [1996.eng] 50-5269
- Kinetics of freezing of dimethylacetylene. An electron diffraction study. Huang, J.F., et al., [1995.eng] 50-151
- Kinetics of ice nucleation initiated by molecular crystals. Iatiminskii, V.K., et al., [1995.eng] 50-3815
- Liquid ice melting along a bundle of heated cylinders. Yamada, M., et al., [1996.eng] 50-4965
- Microscopic dynamics of glycerol in its crystalline and glassy states. Bermejo, F.J., et al., [1996.eng] 50-4418
- Molecular dynamic simulation of proton transport in supercooled water. Di Cola, D., et al., [1996.eng] 50-3715
- Molecular dynamics study of surface melting on ice crystal. Nada, H., et al., [1994.eng] 50-3073

Thermodynamics

- Proceedings. Workshop on Future Directions in Snow and Ice Research. Gallatin Gateway, MT. Oct. 3-4, 1995. [1995.eng] 50-4623
- Simple relationship between the properties of isotopic water. Vedamuthu, M., et al., [1996.eng] 50-4184
- Simulation of clathrate hydrate thermal conductivity. Inoue, R., et al., [1996.eng] 50-5505
- Slow dynamics of water molecules in supercooled states. Gallo, P., et al., [1996.eng] 50-4293
- Structural characteristics of hydrogen-bonded networks in water and ice systems. Dore, J.C., et al., [1995.eng] 50-2697
- Structure of solid fluorocarbon. Torrie, B.H., et al., [1996.eng] 50-4696
- Subzero temperature water behavior in nonionic microemulsions. pt.1. Garti, N., et al., [1996.eng] 50-3409
- Sulfuric acid monohydrate: formation and heterogeneous chemistry in the stratosphere. Zhang, R.Y., et al., [1995.eng] 50-635
- Temperature effects on porous solid capillary functions. Grant, S.A., et al., [1996.eng] 50-5965
- Thermal radiation of water from 0° to 75°C, pt.3. Aivazian, G.M., [1996.eng] 50-5192
- Thermodynamic stability of hydrates for ethane, ethylene, and carbon dioxide. Kvamme, B., et al., [1996.eng] 50-5019
- Thermodynamic theory of supercooled liquids. Kivelson, D., et al., [1995.eng] 50-943
- Thermodynamics**
- Algorithm for simulating wave propagation through sea ice. Blackowiak, A.D., et al., [1995.eng] 50-1644
- Case for cold-base continental ice sheets—a transient thermal model. Heine, J.T., et al., [1996.eng] 50-4890
- Climate simulations with a global atmosphere-ocean model, pt.1. Lunkeit, F., et al., [1996.eng] 50-4090
- Comment on "Equation of state for extrapolation of high-pressure shock Hugoniot data". Johnson, J.B., [1995.eng] 50-5592
- Comment on "Surface layers on ice" by C.A. Knight. Baker, M.B., et al., [1996.eng] 50-6059
- Comments on "The impact of the ice phase and radiation on a midlatitude squall system". Braun, S.A., et al., [1996.eng] 50-5476
- Comparison of monthly sea ice simulation models. Wu, X.R., et al., [1996.eng] 50-5451
- Convective instability influence on freezing time of warm water. Maciejewski, P.K., [1996.eng] 50-4220
- Cooperative polarisation in ice I_s and the unusual strength of the hydrogen bond. Hegg, M.L., et al., [1996.eng] 50-3958
- Cooperativity and hydrogen bond network lifetime in liquid water. Lamanna, R., et al., [1995.eng] 50-5714
- Crystallisation and the glass transition in suspensions of hard colloidal spheres. van Meegen, W., [1995.eng] 50-1223
- Dynamics of metastable states: mode-coupling theory and beyond. Dufty, J.W., et al., [1995.eng] 50-1221
- Effects of solar radiation variations on ice age initiation. Ledley, T.S., et al., [1995.eng] 50-1254
- Evaluation of surface radiative flux parameterizations for use in sea ice models. Key, J.R., et al., [1996.eng] 50-3451
- Fluctuations during melting. Grimsditch, M., et al., [1996.eng] 50-6345
- Global sea-ice—upper-ocean model: some preliminary results. Fichefet, T., et al., [1993.eng] 50-4821
- Heat budget of a midlatitude squall line and implications for potential vorticity production. Braun, S.A., et al., [1996.eng] 50-5475
- High pressure-differential thermal analysis of ice-water equilibrium at 1.5-5.0 GPa. Xu, Y.S., et al., [1995.eng] 50-3392
- Hydrologic cycle parameterization for energy balance climate models. Chu, S.P., et al., [1995.eng] 50-587
- Innovations on a quartz crystal microbalance frost-point hygrometer. Kaluzhny, M., et al., [1995.eng] 50-414
- Low-order model of the Heinrich event cycle. MacAyeal, D.R., [1993.eng] 50-2868
- Mode coupling in critical phenomena and supercooled liquids. Kawasaki, K., [1995.eng] 50-1219
- Mode coupling theory of structural relaxations. Götz, W., et al., [1995.eng] 50-1220
- Model of the glass transition. Mansfield, M.L., [1995.eng] 50-1445
- Modeling the heating and melting of sea ice through light absorption by microalgae. Zeebe, R.E., et al., [1996.eng] 50-2844
- Monte Carlo simulation of the glass transition in polymer melts: an application of MCT. Baschnagel, J., [1995.eng] 50-1229
- New approach to the dynamics of hydrogen bond network in liquid water. Matsumoto, M., et al., [1996.eng] 50-3616
- Nucleation rates in freezing of molecular clusters. Bartell, L.S., [1995.eng] 50-2346
- Numerical studies of Langevin equations for the dynamics of a dense hard sphere fluid. Valls, O.T., et al., [1995.eng] 50-1228
- Observation of momentum and heat transfers between ocean and atmosphere in the Chukchi Sea. Sasaki, Y., et al., [1996.eng] 50-4479
- Paleoclimate data constraints on climate sensitivity: the paleocalibration method. Covey, C., et al., [1996.eng] 50-4150
- Phase equilibria in extended simple point charge ice-water systems. Báez, L.A., et al., [1995.eng] 50-2606
- Phase transitions of ice confined in mesopores. Hansen, E.W., et al., [1996.eng] 50-4141
- Potential food applications of high-pressure effects on ice-water transitions. Kalichevsky, M.T., et al., [1995.eng] 50-1955

Thermoelectric effects

- Premelting of ice in porous silica glass. Ishizaki, T., et al. [1996,eng] 50-6759
- Pressure studies on frost heave in soil and glaciers. Radd, F.J., et al. [1966,eng] 50-1409
- Radiosonde examination of synoptical scale wind/cloud dynamics. Mace, G.G., et al. [1995,eng] 50-3256
- Remote sensing of sea ice variations in response to atmospheric circulation. Maslanik, J.A., et al. [1995,eng] 50-1815
- Residual entropy of ice. Ihm, J.S., [1996,eng] 50-3643
- Seasonal simulation of the southern ocean coupled ice-ocean system. Häkkinen, S., [1995,eng] 50-2113
- Seeding implications of ice crystal growth in the turbulent boundary layer. Levy, G., et al. [1984,eng] 50-4496
- Simulation of the seasonal arctic sea-ice cover with a dynamic thermodynamic sea-ice model. Holland, D.M., et al. [1993,eng] 50-5186
- Solar heating of the arctic mixed layer. Maykut, G.A., et al. [1995,eng] 50-2775
- Spectrometry of frozen organic surface ionization. Betts, R.L., et al. [1995,eng] 50-657
- Structure of amphiphile monolayer adsorbed on ice Ih. Bell, K.P., et al. [1996,eng] 50-4023
- Supercooled liquids. Mohanty, U., [1995,eng] 50-1405
- Surface layers on ice. Knight, C.A., [1996,eng] 50-6058
- Temporal evolution of under ice reflectivity. Laible, H.A., et al. [1996,eng] 50-4591
- Thermal investigation of crystal nucleation from a supercooled liquid. Mu, R., et al. [1996,eng] 50-4354
- Thermodynamic evaluation of the cold resistance of steel elements. Shafrai, S.D., et al. [1995,eng] 50-721
- Thermodynamic model of lake ice formation and melting. Dmitriev, N.V., [1995,eng] 50-5480
- See [also]: Frozen ground thermodynamics

Thermoelectric effects

- Atmospheric electricity and charge transfer from temperature gradients in ice. Latham, J., [1967,eng] 50-5786

Thermokarst

- Arctic coastal plain shorelines. Hill, P.R., et al. [1994,eng] 50-492
- Development of cryogenic processes in the Baykal region. Leshchikov, F.N., [1996,eng] 50-6397
- Dynamics of thermokarst relief on the Yukechinsk polygon. Bosikov, N.P., [1996,eng] 50-6400
- Ice flow vectors on the debris-mantled Tasman Glacier, 1957-1986. Kirkbride, M., [1995,eng] 50-2717
- Lacustrine thermokarst in northern Chukotka. Tishin, M.I., [1990,eng] 50-1628
- Microbiological activity in thermoglacial karst springs, South Spitsbergen. Lauritzen, S.E., et al. [1995,eng] 50-1403
- Permafrost and climate change: geotechnical implications. Williams, P.J., [1995,eng] 50-5238
- Rational methods of using and reconstructing agricultural terrain in Northeastern Russia. Pugachev, A.A., et al. [1994,eng] 50-287
- Regionalization of territories according to degree of risk to cryogenic processes. Kuznetsova, I.L., et al. [1996,eng] 50-6396
- Relict sub-thermokarst of the periglacial region in the Quaternary glaciation. Molodykh, I.L., [1996,eng] 50-6356

Thermokarst development

- Correlation between Pleistocene involutions in English soil and Canadian thermokarst. Murton, J.B., et al. [1995,eng] 50-1803
- Effects of vehicle tracks on arctic tundra. Kevan, P.G., et al. [1995,eng] 50-962
- Space imagery as a basis for modeling the dynamics of thermokarst lake plains. Viktorov, A.S., [1996,eng] 50-6647

Thermokarst lakes

- Distribution characteristics of taliks beneath lakes in the Bovenko region. Anan'eva, G.V., et al. [1996,eng] 50-6360
- Dynamics of thermokarst relief on the Yukechinsk polygon. Bosikov, N.P., [1996,eng] 50-6400
- Evolution of lowland landscapes in northeastern Asia during Late Quaternary time. Tomirdiario, S.V., [1982,eng] 50-3370
- Lacustrine thermokarst in northern Chukotka. Tishin, M.I., [1990,eng] 50-1628
- Postglacial development of river valleys in the middle part of the northern slope of Pomerania. Florek, W., [1991,eng] 50-4940
- Space imagery as a basis for modeling the dynamics of thermokarst lake plains. Viktorov, A.S., [1996,eng] 50-6647

Thermometry

- See [also]: Temperature measurement

Thermopiles

- Thermopiles. Garanin, L.I., [1992,eng] 50-1905

Thickness

- Accuracy of SPOT digital elevation model and derivatives: utility for Alaska's North Slope. Sasowsky, K.C., et al. [1992,eng] 50-1448
- Premelting of ice in porous silica glass. Ishizaki, T., et al. [1996,eng] 50-6759
- Thickness determination of a water film on dye-doped ice by fluorescence spectroscopy. Strausky, H., et al. [1996,eng] 50-3967

See [also]: Glacier thickness; Ice cover thickness; Snow depth

Thickness gages

- Apparatus for measuring ice distribution profiles. Gerardi, J.J., et al. [1995,eng] 50-3482
- Climate of freezing rain over the province of Québec in Canada: a preliminary analysis. Laflamme, J.N., et al. [1996,eng] 50-5333

- Ice thickness measurement reflectometer. Glynn, D.P., et al. [1995,eng] 50-3478

Thin sections

- Compaction tests to simulate icy satellite regolith physics. Leliwa-Kopystyński, J., et al. [1995,eng] 50-5200
- Cryo-ultramicrotomy of individual latex particles for examination of internal morphology. Marcelli, A.M., [1995,eng] 50-4958
- Distribution of water in hailstones. Chylek, P., et al. [1984,eng] 50-4495
- Electron microscopy of frozen pea leaf cellular microstructure. Kaneko, Y., et al. [1996,eng] 50-5252
- Fracture toughness of ice and firm determined from the modified ring test. Fischer, M.P., et al. [1995,eng] 50-458
- Microcracking during stress-relief of polycrystalline ice formed at high pressure. Meglis, I.L., et al. [1995,eng] 50-774
- See [also]: Microscope slides

Thixotropy

- Liquefaction resistance of silty sand based on in situ frozen samples. Yoshimi, Y., et al. [1996,eng] 50-5080
- Thixotropic, crosslinking polymer/borate/salt plug: development and application. Powell, J.W., et al. [1991,eng] 50-1707

Thixotropic temperatures

- Characteristics of the crystallization of water in unsaturated soils. Golubev, V.N., [1996,eng] 50-6810
- Kinetics of the freezing of water in dispersed soils (experiment, theory). Grechishchev, S.E., et al. [1996,eng] 50-6811

Thunderstorms

- Dual multiparameter radar observations of intense convective storms. Brangi, V.N., et al. [1996,eng] 50-4597
- Dual polarization radar observations of thunderclouds in winter season. Sonoi, Y., et al. [1995,eng] 50-4258
- Electrification mechanisms of snow crystals (Part I). Endoh, T., [1981,eng] 50-5790
- Electrification mechanisms of snow crystals (Part III). Endoh, T., [1981,eng] 50-5799
- Electrification of frost deposits. Vonnegut, B., [1965,eng] 50-3948
- Electrification of thunderstorm cells during cloud ice formation. Ramachandran, R., et al. [1996,eng] 50-3020
- Electrification produced by the growth of soft hail in thunderclouds. Latham, J., [1965,eng] 50-3945
- Hailstorms in Switzerland: left movers, right movers, and false hooks. Houze, R.A., Jr., et al. [1993,eng] 50-1444
- Influence of temperature on microdischarges between ice particles. Coquillat, S., et al. [1996,eng] 50-5385
- Mass loss of water drops falling in electric fields. Latham, J., [1965,eng] 50-3946
- Radar observation of cloud electrification during thunderstorms. Jameson, A.R., et al. [1996,eng] 50-3965
- Radar observation of cloud ice crystal alignment to predict lightning. Krehibel, P., et al. [1996,eng] 50-4599
- Radar observation of ice crystal orientation in thunderstorms. Caylor, J.L., et al. [1996,eng] 50-5684
- Radar study of the evolution of a lightning producing storm. Carey, L.D., et al. [1996,eng] 50-4598
- Role of electrified ice meltwater in thunderstorms. Kamra, A.K., et al. [1984,eng] 50-4923
- Role of ice geometry and impact velocity in thunderstorm electrification. Latham, J., et al. [1965,eng] 50-3949
- Supercell simulations with simple ice parameterization. Tartaglione, N., et al. [1996,eng] 50-3709
- Temperature dependence of static charging in ice growing by riming. Avila, E.E., et al. [1995,eng] 50-3004
- Thunderstorm electrification analysis: the dependence on the temperature-LWC diagram. Scavuzzo, C.M., et al. [1996,eng] 50-3342
- Thunderstorm electrification. Saunders, C.P.R., [1995,eng] 50-4075

Tibet

- Problematic ice sheets. Rutter, N.W., [1995,eng] 50-498

Tibet—Bangong Lake

- Late Pleistocene-Holocene diatom record and paleoenvironment of Bangong Lake, Western Tibet. Fan, H., et al. [1994,eng] 50-1532

Tibet—Himalayas Mountains

- Limestone karst morphology in the Himalayas of Nepal and Tibet. Waltham, A.C., [1996,eng] 50-4875

Tidal currents

- Glimpse beneath the ice. Plueddemann, A.J., [1996,eng] 50-6674
- Ice buoy tests of Barents Sea tidal motions. Pease, C.H., et al. [1995,eng] 50-2776
- Sediment discharge from an Alaskan surging glacier. Merrand, Y., et al. [1996,eng] 50-6266
- Stability of M_2 critical latitude in the Barents Sea. Furevik, T., et al. [1996,eng] 50-5262
- Subtidal and tidal currents in the vicinity of the Iceland-Faeroes front. Allen, J.T., [1995,eng] 50-159
- Tidally forced under-ice Ekman layers observed by an acoustic Doppler current profiler. Marsden, R.F., et al. [1995,eng] 50-5933
- Vertical motion and ice thickness variation in western North America. Trupin, A.S., et al. [1996,eng] 50-3068
- See [also]: Ocean currents

Tides

- GPS recording of Hells Gate ice shelf tidal responses. Bondesan, A., et al. [1994,eng] 50-3765
- Ocean load tides at the South Pole. Agnew, D.C., [1995,eng] 50-4199

Topographic effects

- Physical oceanography of fjord-coast systems in Norway. Svendsen, H., [1995,eng] 50-4132
- Sea level variations related to glacial isostasy. Mitrovica, J.X., et al. [1995,eng] 50-1185
- Seismic activity of landfast ice. Nikitin, V.A., et al. [1995,eng] 50-188
- Tidal displacement of sea ice at Nishino-ura Cove. Sato, T., et al. [1995,eng] 50-3694

Tien Shan

- Genesis of mountain-meadow and mountain-meadow-steppe chernozem-like soils. Evdokimova, T.I., et al. [1995,eng] 50-3972

Till

See [also]: Glacial till

Timberlines

See [also]: Forest lines

Time factor

- Effect of aging on the penetration resistance of sands. Joshi, R.C., et al. [1995,eng] 50-1823

Tires

- Analysis of winter skid accidents in Sapporo City and Asahikawa City. Nagai, T., et al. [1995,eng] 50-6792
- Analysis of winter skid accidents in Sapporo City. Nagai, T., et al. [1994,eng] 50-2827
- Anti-skid chain for vehicle tires. Franklin, C.R., [1992,eng] 50-2246
- Automobile traction enhancement device. Morelli, R.L., [1995,eng] 50-3470
- Effect of the popularization of studless tires on the road environment. Mima, H., et al. [1995,eng] 50-6790
- Effect of the popularization of studless tires on traffic conditions. Horita, N., et al. [1995,eng] 50-6789
- Effects of widespread use of studless tire on traffic conditions. Horita, N., et al. [1994,eng] 50-2829
- Evaluation of winter vehicle traction with different types of tires. Lu, J.J., et al. [1995,eng] 50-5709
- Friction of rubber at low temperature. Uchiyama, Y., et al. [1995,eng] 50-3514
- History of snow tire. Aoi, H., [1995,eng] 50-3513
- Large strain finite-element analysis of snow. Meschke, G., et al. [1996,eng] 50-5923
- Material characteristics of studless tire. Hirata, Y., [1995,eng] 50-3515
- Pneumatic tire with improved drivability on icy roads. Harada, M., et al. [1993,eng] 50-3486
- Pneumatic tire, mold, and method manufacturing. Aoki, N., et al. [1992,eng] 50-2332
- Pneumatic tire. Aoki, N., et al. [1992,eng] 50-2331
- Pneumatic tires. Morimoto, Y., et al. [1992,eng] 50-2329
- Pneumatic tyre. Shibata, K., [1992,eng] 50-2335
- Road surface covered with snow and ice and traffic accidents in Hokkaido. Takagi, H., [1995,eng] 50-3512
- Roadside temperature displays and use of studless tires. Takagi, H., [1993,eng] 50-2840
- Rubber composition for tire treads. Takao, H., et al. [1987,eng] 50-3485
- Self-contained anti-skid device for pneumatic tires. Yadekar, I., [1995,eng] 50-3458
- Standard test methods for tire performance testing on snow and ice surfaces. American Society for Testing and Materials, [1995,eng] 50-886
- Studded tire research in Norway, Finland and Sweden. Johnson, E., et al. [1996,eng] 50-6163
- Trends in winter tires as seen in the patents. Iwasaki, S., [1995,eng] 50-994
- Vehicle traction performance comparison for Alaska winter seasons. Lu, J.J., [1996,eng] 50-6162
- Wear resistance of concrete pavements to studded tires. Hultqvist, B.A., et al. [1996,eng] 50-3847
- Wear resistant concrete for pavements. Pedersen, N., [1988,eng] 50-4227

Tissues

See [also]: Plant tissues

Tools

See [also]: Equipment

Topographic effects

- Afforestation control of disastrous snow drifting on rugged terrains in Xinjiang. Hu, R.J., et al. [1994,eng] 50-4000
- Alpine ecosystem snow depths derived from tree damage. Woolridge, G.L., et al. [1996,eng] 50-4629
- Avalanche modeling in concave and convex chutes. Greve, R., et al. [1993,eng] 50-1209
- Circulation in the Bering Sea basin observed by satellite-tracked drifters: 1986-1993. Stabenro, P.J., et al. [1994,eng] 50-2856
- Comment and reply on paper by Batterson et al. Brookes, I.A., et al. [1995,eng] 50-1083
- Computer model of glaze accretion on wires. Draganou, G., et al. [1996,eng] 50-5160
- Correction of satellite radar altimetry of antarctic ice sheets. Cooper, A.P.R., et al. [1996,eng] 50-5073
- Description of the Martian polar cap breeze. Fernández, W., [1995,eng] 50-3671
- Differences in the duration of snow cover on Scottish ski-slopes between mild and cold winters. Harrison, S.J., [1993,eng] 50-3014
- Digital terrain model of topographic obstruction to solar radiation in the Tian Shan. Li, X., et al. [1995,eng] 50-3997
- Dispersal of metal-contaminated sediments in an arctic river. Sear, D., et al. [1996,eng] 50-6516
- Distribution of river run-off in the Laptev Sea: the environmental effect. Dmitrenko, I.A., et al. [1995,eng] 50-2077

Topographic features

- Dynamics of the Antarctic Circumpolar Current. Ivchenko, V.O., et al. [1996,eng] 50-5157
- Effect of local wind on the dynamics of a Norwegian fjord. Leth, O.K., [1995,eng] 50-4135
- Effect of sea ice surface features on radar backscatter. Ulander, L.M.H., et al. [1995,eng] 50-1813
- Energy balance model for a small valley glacier, pt.1. Arnold, N.S., et al. [1996,eng] 50-4893
- Evidence of paleoclimatic snow melt in lacustrine mountain deposits. Norris, R.D., et al. [1996,eng] 50-5082
- Exploring the Barents Sea polar front. Gawarkiewicz, G., et al. [1996,eng] 50-6672
- Fine resolution numerical model of the Iceland-Faroe front with open boundary conditions. Griffiths, C., [1995,eng] 50-571
- Forward coupled-mode propagation modeling for coastal acoustic tomography. Chiu, C.S., et al. [1996,eng] 50-4589
- Gravimetric investigation of permafrost on the Blockglaciers Murtel-Corvatsch (Oberengadin). Klingele, E., et al. [1993,ger] 50-4909
- Ice accumulation, western Queen Maud Land. Swithinbank, C., [1959,eng] 50-6203
- Ice sheet motion and topography from radar interferometry. Kwok, R., et al. [1996,eng] 50-2702
- Ice streams in Antarctica: transverse instability of gravity driven flow. Minalie, M., et al. [1996,eng] 50-3722
- Impact of Antarctica on surface air temperatures in the southern polar region. Liubarskii, A.N., [1993,rus] 50-4506
- Internal and basal ice changes near the grounding line derived from radio-echo sounding. Uratsuka, S., et al. [1996,eng] 50-4895
- Katabatic winds over an East Antarctic cirque. Jonsson, S., [1995,eng] 50-1338
- Laws of distribution of the snow cover on the Greater Caucasus (Soviet Union). Gurtovaia, E.E., et al. [1965,eng] 50-3427
- Local circulation in a fjord and exchange of water with the adjacent ocean. Asplin, L., [1995,eng] 50-4134
- Model of drag forces on sea ice bottom surfaces. Pite, H.D., et al. [1995,eng] 50-2740
- Nitrogen soil dynamics in an arctic lowland ecosystem. Chapin, D.M., [1996,eng] 50-4340
- Numerical landscapes: static, kinematic and dynamic process-form relations. Richards, K., et al. [1995,eng] 50-4153
- Numerical model of flow in ice-covered channel. Yoon, J.Y., et al. [1996,eng] 50-2720
- Numerical simulations of topographic Rossby waves along the East Greenland front. Maslowski, W., [1996,eng] 50-5260
- Observation of snowfall and airflow over a low mountain barrier. Nakai, S., et al. [1995,eng] 50-341
- Observational study of the katabatic wind confluence zone near Siple Coast, West Antarctica. Bromwich, D.H., et al. [1996,eng] 50-4157
- On the climatological mean circulation over the eastern Bering Sea shelf. Reed, R.K., et al. [1996,eng] 50-6201
- On the snowfall at Aomori City due to orographic convergent winds. Rikishi, K., et al. [1995,jpn] 50-1170
- Paleoclimatic changes on the northern side of the central Himalaya. Fort, M., [1996,eng] 50-5096
- Permafrost soil thawing after forest fires. Swanson, D.K., [1996,eng] 50-5497
- Radar survey of French Alps snow cover. Bernier, M., et al. [1996,eng] 50-5542
- Rapid calculation of direct radiation on sloping fields. Wang, J., et al. [1995,chi] 50-5629
- Recent responses of Chilean glaciers to climatic changes. Holmlund, P., et al. [1995,eng] 50-1868
- Rocky Mountain snowmelt on talus slopes by radar satellite. Maxfield, A.W., [1996,eng] 50-5544
- Role of North Atlantic margin uplift in Cenozoic glaciation. Eyles, N., [1996,eng] 50-3386
- Saline ice sheet surface scattering with controlled roughness parameters. Bredow, J.W., et al. [1995,eng] 50-982
- Sequence types of Upper Quaternary deposits in the Kara Sea. Levitan, M.A., et al. [1995,eng] 50-3546
- Shear margins in glaciers and ice sheets. Raymond, C., [1996,eng] 50-4894
- Small-scale waves encountered during AASE. Bacmeister, J.T., et al. [1990,eng] 50-5982
- Snow cover and microrrelief. Fukuoka, Y., [1988,jpn] 50-2046
- Snow cover variations in a field catchment area. Shutov, V.A., [1995,eng] 50-2729
- Snow-drift modelling and control. Ring, S.L., [1991,eng] 50-4906
- Snow-vegetation relations in the forest tundra of New Quebec. Hudson Bay. Payette, S., et al. [1973,fre] 50-2852
- Snowfall generated by surface topographic effects upon wind direction. Wesley, D.A., et al. [1995,eng] 50-1079
- Snowpack influences on geomorphic processes in Green Lakes Valley, Colorado Front Range. Caine, N., [1995,eng] 50-1404
- Soil nutrient dynamics in East African alpine ecosystems. Rehder, H., [1994,eng] 50-3055
- Spatial and temporal distribution of storm precipitation in south-western British Columbia. Loukas, A., et al. [1996,eng] 50-2603
- Spatial explicit modeling of arctic tundra landscapes. Ostendorf, B., [1994,eng] 50-698
- Subtidal and tidal currents in the vicinity of the Iceland-Faroes front. Allen, J.T., [1995,eng] 50-159
- Surface morphology and backscattering of ice-ridge sails in the Baltic Sea. Manninen, A.T., [1996,eng] 50-4899

- Swedish forest production losses due to summer frost. Verwijst, T., et al. [1996,eng] 50-6753
- Terrain as a controlling factor for slush streams in Spitsbergen. Scherer, D., et al. [1994,eng] 50-1588
- Topographic control on the dynamics of the Svalbard-Barents Sea ice sheet. Siegert, M.J., et al. [1996,eng] 50-5306
- Topographic controls on Norwegian Holocene glaciers fluctuations. Aa, A.R., [1996,eng] 50-4374
- Topographic influence on the flow field off Lofoten-Vesterålen. Orvik, K.A., et al. [1995,eng] 50-4133
- Topographic origin for double-ridge features in visible imagery of ice divides in Antarctica. Goodwin, A.H., et al. [1995,eng] 50-1870
- Topographical influence on Himalayan snow cover distribution. Singh, P., et al. [1995,eng] 50-4012
- Tracer study of glacial drainage variations in Switzerland. Nienow, P., et al. [1996,eng] 50-5580
- Water pressure and basal sliding on Storglaciären, northern Sweden. Jansson, P., [1995,eng] 50-446
- Topographic features**
- Avalanche mapping and related G.I.S. applications in the Catalan Pyrenees. Furdada, G., et al. [1995,eng] 50-1061
- Basal friction of Ice Stream E, West Antarctica. MacAyeal, D.R., et al. [1995,eng] 50-448
- Bedrock topographic effects on subglacial erosion. Rea, B.R., et al. [1996,eng] 50-6249
- Behavior of the East Antarctic ice sheet as deduced from a coupled GCM/ice-sheet model. Verbitskii, M.I.A., et al. [1995,eng] 50-4538
- Characteristics of surface roughness associated with leading-edge ice accretion. Shin, J.W., [1996,eng] 50-4407
- Effect of X-radiation on the plastic deformation of ice. Hu, X.H., et al. [1996,eng] 50-5866
- Geological and geophysical exploration of alpine and peri-alpine glacial valleys. Pugin, A., et al. [1995,eng] 50-3315
- Geology of the eastern coast of Discovery Bay, Greenwich Island and the South Shetlands. Rudowski, S., [1989,pol] 50-2880
- Ice sheet motion and topography from radar interferometry. Kwok, R., et al. [1996,eng] 50-2702
- Identification of elements of fluvio-glacial shapes characteristic of glacial outbursts. Robitaille, A., et al. [1995,fre] 50-5041
- Impact of subglacial geothermal activity on glacier meltwater quality. Lawler, D.M., et al. [1996,eng] 50-6087
- Kulshan caldera: a Quaternary subglacial caldera in the North Cascades, Washington. Hildreth, W., [1996,eng] 50-6547
- Measurement of ice-sheet topography using satellite-radar interferometry. Joughin, I., et al. [1996,eng] 50-4887
- Measurements of the underside topography of sea ice by moored subsea sonar. Melling, H., et al. [1995,eng] 50-160
- Numerical landscapes: static, kinematic and dynamic process-form relations. Richards, K., et al. [1995,eng] 50-4153
- Numerical reconstruction of a soft-bedded Laurentide Ice Sheet during the last glacial maximum. Clark, P.U., et al. [1996,eng] 50-6539
- Observation of slip transmission through a grain boundary in ice. Jia, K., et al. [1996,eng] 50-5297
- Position measurements during the 1959 International Glaciological Expedition in Greenland. Hofmann, W., [1958,ger] 50-4632
- Recent morphogenesis and problems in the geocology of the Russian Arctic. Sen'kin, O.V., et al. [1995,rus] 50-5138
- Satellite imagery of ice sheet drainage basins, Russian Arctic. Dowdeswell, J.A., et al. [1995,eng] 50-3327
- Satellite imagery of the onset of streaming flow of ice streams C and D, West Antarctica. Hodge, S.M., et al. [1996,eng] 50-4301
- Seasonal development of Beaufort Sea pack ice. Melling, H., et al. [1996,eng] 50-5857
- Seismic investigation of glacial tunnel channels. Pugin, A., et al. [1996,eng] 50-6257
- Soil geomorphology on Alaskan permafrost terrain. Swanson, D.K., [1996,eng] 50-6518
- Source of errors in surface area measurements of glacier mass balance. Jacobsen, F.M., et al. [1995,eng] 50-1865
- Statistical parameters influencing mapping of subglacial topography. Herzfeld, U.C., et al. [1993,eng] 50-1033
- Stratigraphical position of kame deposits to the north of Bielsk Podlaski. Mycielska-Dowgiad, E., et al. [1995,eng] 50-2617
- Technogenic relief on Novosibirsk Islands and Severnaya Zemlya. Bol'shianov, D.I.A., et al. [1991,rus] 50-1305
- Was it snowing snowballs? Bartlett, A.A., [1996,eng] 50-5941
- X-ray topographic study of ice crystal dislocations. Liu, F.P., et al. [1992,eng] 50-5958
- See [also]:* Bottom topography; Coastal topographic features; Landforms; Landscape types; Pit and mound topography; Polygonal topography
- Topographic maps**
- Cheap, quick and safe way of surveying glaciers. Wright, J.W., et al. [1995,eng] 50-2995
- Geomorphological mapping by remote sensing in Spitsbergen. Ståblein, G., et al. [1994,ger] 50-1583
- Subglacial topography in the Sør Rondane Mountains. Pattyn, F., et al. [1995,eng] 50-660
- Surveying and mapping program of the United States in Antarctica. Mullen, R.R., et al. [1993,eng] 50-592
- Topographic and thematic maps of the Spitsbergen Expedition, 1990-1992. Brunner, K., et al. [1994,ger] 50-1575
- Topographic mapping of Aletsch Glacier. Finsterwalder, R., [1961,ger] 50-5740

Topographic surveys

- Using multiple data sources to enhance photogrammetry for mapping antarctic terrain. Fox, A.J., [1995,eng] 50-5536
- Veneto's glaciers. Zanon, G., [1990,ita] 50-861
- Topographic surveys**
- Accuracy of SPOT digital elevation model and derivatives: utility for Alaska's North Slope. Sasowsky, K.C., et al. [1992,eng] 50-1448
- Application of DTM to extraction of snowcover information from NOAA/AVHRR image. Feng, X.Z., et al. [1995,chi] 50-3983
- Avalanche hazard mapping with satellite data and a digital elevation model. Gruber, U., et al. [1995,eng] 50-2345
- Background database of snow disaster in Nagqu area of Xizang. Sun, W.X., et al. [1995,chi] 50-3979
- Central Appalachian periglacial geomorphology: a field excursion guidebook. Clark, G.M., ed. [1992,eng] 50-3712
- Changes in the configuration of ice stream flow from the West Antarctic ice sheet. Jacobel, R.W., et al. [1996,eng] 50-4360
- Cheap, quick and safe way of surveying glaciers. Wright, J.W., et al. [1995,eng] 50-2995
- Comparison of ice-sheet satellite altimeter retracking algorithms. Davis, C.H., [1996,eng] 50-2703
- Digital terrain information and its application in Nagqu area of Xizang. Lu, A.X., et al. [1995,chi] 50-3985
- Digital terrain model of topographic obstruction to solar radiation in the Tian Shan. Li, X., et al. [1995,chi] 50-3997
- Distribution and morphological types of recent glaciers in Mount Xixia Bangma region. Shi, Y.F., et al. [1982,chi] 50-6595
- Driving stress, hydraulic head and landform genesis at the southeastern Burroughs Glacier. Gaffield, S.G., et al. [1995,eng] 50-3740
- Dynamics of David Glacier and its floating Drygalski Ice Tongue. Frezzotti, M., [1994,ita] 50-2824
- ERS-1 altimetry on the Greenland ice sheet: preliminary investigations of annual variations. Andersen, O.B., [1994,eng] 50-5033
- Establishment and application of DTM of the Qinghai-Xizang Plateau. Li, X., et al. [1995,chi] 50-3994
- Features of nivation landforms in the Changbaishan Mts. Song, C.Q., et al. [1995,chi] 50-5627
- General summary of the "Xinjiang 1:1,000,000 land resources map". Ji, F., et al. [1991,chi] 50-5108
- Geodetic support for Spitsbergen expedition. Rawiel, P., et al. [1994,ger] 50-1576
- Geological and geophysical exploration of alpine and peri-alpine glacial valleys. Pugin, A., et al. [1995,eng] 50-3315
- Geomorphological altitude zones in the Qinghai-Xizang Plateau. Hövermann, J., et al. [1994,ger] 50-4775
- Geomorphological mapping by remote sensing in Spitsbergen. Ståblein, G., et al. [1994,ger] 50-1583
- Geomorphological studies on the arid regions of northwest China. Yang, X.P., [1991,ger] 50-2770
- Geoscientific Spitsbergen Expedition 1990-1992. Blümel, W.D., ed. [1994,ger] 50-1574
- Glacial processes, sediments, landforms, and stratigraphy at Myrdalsjökull. Krüger, J., [1994,eng] 50-166
- Greenland expedition with the Ni2 level. Mälzer, H., [1960,eng] 50-5750
- Greenland ice sheet thickness changes measured by laser altimetry. Krabill, W., et al. [1995,eng] 50-751
- Holocene variations of Ameghino Glacier, southern Patagonia. Aniya, M., [1995,eng] 50-6081
- INACH expedition to Patriot Hills, Nov-Dec. 1995. Casassa, G., [1996,spa] 50-5802
- International Glaciological Greenland Expedition, 1959/60. Hofmann, W., [1958,ger] 50-5745
- Land classification, land structure and comprehensive natural zonation of Xinjiang. Fan, Z.L., et al. [1991,chi] 50-5107
- Late Cenozoic tectonics and the dynamics of the west antarctic ice sheet. Behrendt, J.C., et al. [1994,eng] 50-1884
- Limiting resolution of ice-sheet elevations derived from pulse-limited satellite altimetry. Wingham, D.J., [1995,eng] 50-461
- Logistics in remote areas in Greenland. Andersson, T.I.H., et al. [1995,eng] 50-2967
- Measurement of ice-sheet topography using satellite-radar interferometry. Joughin, I., et al. [1996,eng] 50-4887
- Microwave remote sensing of ice sheets by SAR interferometry. Nishio, F., [1995,jpn] 50-1175
- Moraines and buried ice in Terra Nova Bay area. Meneghel, M., et al. [1994,ita] 50-2825
- Paleoclimatic interpretation of topographic variations in Tibetan lake shorelines. Avouac, J.P., et al. [1996,eng] 50-5094
- Patterned ground in the inner Woodford area, NW Spitsbergen. Thannheiser, D., et al. [1994,ger] 50-1589
- Periglacial deformations at an archaeological dig near Salzgtitter. Preul, F., [1985,ger] 50-2790
- Photogrammetry and geomorphology of high arctic push moraines. King, L., et al. [1993,eng] 50-1673
- Rapid calculation of direct radiation on sloping fields. Wang, J., et al. [1995,chi] 50-5629
- Repeat photography and landscape change at Glacier Bay, 1879-1993. Lawrence, D.B., et al. [1995,eng] 50-3742
- Reports on the Glaciological Survey of 1993. Armando, E., et al. [1994,ita] 50-3767
- Research on the natural resources and environment of the Ordos Plateau in Inner Mongolia. Li, B., ed. et al. [1990,chi] 50-2011
- Rivers and lakes of Xizang. Guan, Z.H., et al. [1984,chi] 50-1846

Topography

- Satellite imagery for avalanche forecasting and rescue. Granica, K., [1995,eng] 50-4168
- Surveying work in Mount Xixia Bangma region. Zhou, J.Q., et al., [1982,chi] 50-6594
- System of climatic geomorphology based on landscape typing. Hövermann, J., [1990,ger] 50-1782
- Technogenic relief on Novosibirsk Islands and Severnaya Zemlya. Bol'shianov, D.I.A., et al., [1991,rus] 50-1305
- Topographic and thematic maps of the Spitsbergen Expedition, 1990-1992. Brunner, K., et al., [1994,ger] 50-1575
- Velocity measurement of glacial flow with aerial photogrammetry. Hofmann, W., [1958,ger] 50-5078
- Veneto's glaciers. Zanoni, G., [1990,ita] 50-861

Topography

See [also]: Bottom topography; Coastal topographic features; Pit and mound topography; Polygonal topography

Towers

- Artificial freezing suspended while Tower of Pisa foundation is anchored. Wheeler, P., [1995,eng] 50-885
- Atmospheric icing on transmission line towers in Iran. Arabani, M.P., et al., [1996,eng] 50-5364
- Calibration of anemometers for use in icing conditions. Makkonen, L., et al., [1996,eng] 50-5348
- Combined wind and ice loads on telecommunication towers in Quebec, Phase I. Elfasny, K., et al., [1996,eng] 50-5353
- Construction of the Okhotsk frozen-sea observation tower. Sato, Y., et al., [1996,jpn] 50-5873
- Effect of icing on the dynamic behaviour of guyed antenna towers. Wahba, Y.M.F., et al., [1996,eng] 50-5378
- Ice formation on the guywires of Hydro-Québec telecommunication towers. Gastonguay, L., et al., [1996,eng] 50-5402
- Supporting permafrost bases for tower pile-drivers of vertical mine shafts while in operation. Izakson, V.I.U., et al., [1989,rus] 50-2251
- Wind measurements at Ylläs broadcasting station 1982-1991. Lehtonen, P., [1992,eng] 50-3632

Towing

See [also]: Iceberg towing

Tracked vehicles

- Belt track for track-laying vehicles and snowmobiles. Wiesner, H.H., et al., [1991,eng] 50-2239
- Development of a mobile garage/vehicle servicing facility. Halley scientific station. Smith, A.L., et al., [1994,eng] 50-4268
- Effects of vehicle tracks on arctic tundra. Kevan, P.G., et al., [1995,eng] 50-962
- Methodology for predicting for winter conditions in the NATO Reference Mobility Model. Ahlvin, R.B., et al., [1995,eng] 50-48
- Modelling vehicle mobility over multi-layered deep snowcover. Irwin, G.J., et al., [1995,eng] 50-50
- Modular articulated track for automotive vehicles. Remy, C., et al., [1993,fre] 50-2229
- Performance comparison of polecat and weasel tracked vehicles. Rula, A.A., [1958,eng] 50-3839
- Revegetation on tracked vehicle paths, Vestspitsbergen. Korolova, N.E., [1995,eng] 50-2569
- Ribbon track for tracked vehicles and snowmobiles. Wiesner, H.H., et al., [1990,ger] 50-2500

Tracking (position)

See [also]: Radar tracking

Traction

- Anti-skid chain for vehicle tires. Franklin, C.R., [1992,eng] 50-2246
- Automobile traction enhancement device. Morelli, R.L., [1995,eng] 50-3470
- Cold regions aspects of mobile test bed hardening in Montana. Blaisdell, G.L., et al., [1987,eng] 50-2725
- Design and analysis of a low speed drag plow for use in deep snow. Walsh, M.R., [1991,eng] 50-6198
- Evaluation of winter vehicle traction with different types of tires. Lu, J.J., et al., [1995,eng] 50-5709
- Large strain finite-element analysis of snow. Meschke, G., et al., [1996,eng] 50-5923
- Methodology for predicting for winter conditions in the NATO Reference Mobility Model. Ahlvin, R.B., et al., [1995,eng] 50-48
- Modelling vehicle mobility over multi-layered deep snowcover. Irwin, G.J., et al., [1995,eng] 50-50
- Observations of snow deformation by a wheel. Richmond, P.W., [1995,eng] 50-49
- Pneumatic tire with improved drivability on icy roads. Harada, M., et al., [1993,eng] 50-3486
- Self-contained anti-skid device for pneumatic tires. Yadegar, I., [1995,eng] 50-3458
- Standard test methods for tire performance testing on snow and ice surfaces. American Society for Testing and Materials, [1995,eng] 50-886
- Traction and hardening tests of mobile missile launcher over frozen ground. Chamberlain, E.J., et al., [1988,eng] 50-2524
- Trends in winter tires as seen in the patents. Iwasaki, S., [1995,jpn] 50-994
- Vehicle traction performance comparison for Alaska winter seasons. Lu, J.J., [1996,eng] 50-6162

See [also]: Skid resistance

Tractors

- Cold regions aspects of mobile test bed hardening in Montana. Blaisdell, G.L., et al., [1987,eng] 50-2725
- System for recovery of oil from snow and ice surfaces. Aiken, L.B., [1995,eng] 50-3473

Trafficability

- Anti-skid chain for vehicle tires. Franklin, C.R., [1992,eng] 50-2246
- Correlation of snow trafficability and physical properties. Part 1. Yong, R.N., et al., [1989,eng] 50-2602
- Design and analysis of a low speed drag plow for use in deep snow. Walsh, M.R., [1991,eng] 50-6198
- Effect of the environment on the bearing capacity of a road. Final report. Part 1. Pfister, R., et al., [1979,fre] 50-2451
- Mechanistic design of asphalt concrete pavements in cold regions. Vinson, T.S., et al., [1996,eng] 50-6191
- Methodology for predicting for winter conditions in the NATO Reference Mobility Model. Ahlvin, R.B., et al., [1995,eng] 50-48
- Modelling vehicle mobility over multi-layered deep snowcover. Irwin, G.J., et al., [1995,eng] 50-50
- Observations of snow deformation by a wheel. Richmond, P.W., [1995,eng] 50-49
- Sea ice landing strip for Boeing-727 in northern Greenland. Sinha, N.K., [1995,eng] 50-2973
- Snow parameters for vehicle mobility modeling. Horrigan, T., et al., [1995,eng] 50-2708
- Temporary snow and ice pavement structures. Scher, R.L., [1996,eng] 50-6189

See [also]: Soil trafficability

Trail markers

See [also]: Markers

Training

See [also]: Education

Transformations

- Moisture transfer, water-soluble substances and structural transformation during freezing. Brovka, G.P., et al., [1996,rus] 50-6821
- See [also]: Metamorphism (snow); Permafrost transformation; Phase transformations

Transmission

See [also]: Light transmission; Radiation absorption

Transmission line towers

See [also]: Power line supports

Transmission lines

- Computer model of glaze accretion on wires. Draganovic, G., et al., [1996,eng] 50-5160
- Coupled vertical and horizontal galloping—discussion. Havard, D.G., et al., [1993,eng] 50-3253
- Deicing device for cable. LaForte, J.L., et al., [1995,eng] 50-3459
- Finite element modelling of transmission line galloping. Desai, Y.M., et al., [1995,eng] 50-494
- Ice shedding from cables. Druze, J., et al., [1995,eng] 50-1144
- Instability trends of inertially coupled galloping, part 1: initiation. Yu, P., et al., [1995,eng] 50-1053
- Instability trends of inertially coupled galloping, part 2: periodic variations. Yu, P., et al., [1995,eng] 50-1054
- Perturbation-based finite element analyses of transmission line galloping. Desai, Y.M., et al., [1996,eng] 50-4291
- Some effects of conductor twisting on galloping. Richardson, A.S., Jr., [1980,eng] 50-3698

See [also]: Power lines

Transmissivity

- Observational and theoretical studies of solar radiation in arctic stratus clouds. Herman, G.F., et al., [1984,eng] 50-4913
- Study of H₂O contamination on a cooled optical surface. Guo, Q., et al., [1995,eng] 50-6527
- See [also]: Light transmission; Radiation absorption

Transparency

- AMANDA: Antarctic Muon And Neutrino Detector Array. Barwick, S.W., et al., [1994,eng] 50-4694
- Atmospheric transparency and the stress of direct solar radiation in the Arctic and Antarctic. Wójcik, G., [1989,pol] 50-2902
- Chlorophyll fluorescence in the Laptev Sea. Anoshkin, A.F., et al., [1995,eng] 50-2083
- Greenland 90: a first step toward using the polar ice cap as a Cherenkov detector. Barwick, S.W., et al., [1992,eng] 50-4263
- Infrared radiometry of optical thickness of clouds in the Arctic. Stamnes, K., et al., [1996,eng] 50-5283
- See [also]: Light transmission; Turbidity
- Transpiration
- Comparative water relations of tropical alpine plants. Meinzer, F.C., et al., [1994,eng] 50-3047
- Hydrologic role of soils and ecological methods of regulating water resources. Voronkov, N.A., [1995,eng] 50-3879
- Palaeo-ecophysiological studies on cretaceous and tertiary fossil floras. Beerling, D.J., [1994,eng] 50-895
- Tall and hard fescue responses to periodic soil water deficits. Brar, G.S., et al., [1995,eng] 50-2475
- See [also]: Evapotranspiration

Transportation

- Air Transport Options Workshop, to be held at the Antarctic Division, Hobart, Wednesday, 1 March 1995. Australia. Antarctic Science Advisory Committee, [1995,eng] 50-6417
- Cold regions engineering research—a strategic plan. Carlson, R.F., ed, et al., [1988,eng] 50-6209
- Concept of the cooperative air transport system in East Antarctica. Klokov, V., et al., [1994,eng] 50-4279
- Development of transportation centers and communications in northwestern Russia. Koniukhov, A.P., [1995,rus] 50-3078
- End of season report: Operation Deep Freeze 95/96. U.S. Naval Support Force Antarctica, [1996,eng] 50-5807
- Report of the Antarctic Traverse Workshop, 2-4 May 1994. Washington, DC. Blaisdell, G.L., [1994,eng] 50-4283

- Siberia and the metro. Safronov, E.A., [1995,rus] 50-3087
- Symposium on Antarctic Logistics and Operations, 6th. Proceedings. Symposium on Antarctic Logistics and Operations, 6th, Rome, Italy, Aug. 29-31, 1994. [1994,eng] 50-4267
- Technological effects on tundra ecosystems and the reevaluation of disturbed territory. Sumina, O.I., [1992,rus] 50-3406
- Transportation construction in the cryolithozone. Tsermant, A.A., [1995,rus] 50-3083
- See [also]: Fuel transport; Marine transportation; Military transportation; Petroleum transportation; Tanker ships; Water transport

Traverses

- Antarctic commute: CRREL searches for safe land route to South Pole. Chalmers, P., [1996,eng] 50-3239
- Glaciological data collected by JARE-35, 1994-1995. Shiraiwa, T., et al., [1996,eng] 50-5804
- Ice flow observations along traverse routes from the coast to Dome Fuji. Motoyama, H., et al., [1995,eng] 50-1692
- Ionic constituents of surface snow samples, 1992-1993. Osada, K., et al., [1995,eng] 50-4389
- Jeeps along the Fjöllum River: handbook of highland travel. Gislason, G.M., ed, [1994,ice] 50-2789
- Northern exposure—traversing Baffin Island's icy reaches. Dunn, J., [1995,eng] 50-4358
- Report of the Antarctic Traverse Workshop, 2-4 May 1994. Washington, DC. Blaisdell, G.L., [1994,eng] 50-4283
- Report of the Hokkaido University 3rd Alaska glacier survey, June 17-July 28, 1975. Higashi, A., [1976,jpn] 50-482

Tree lines

See [also]: Forest lines

Trees (plants)

- Acclimation of tree function and structure to climate change and implications to forest carbon balance. Hari, P., et al., [1994,eng] 50-3204
- Adaptation of tree seedlings to subalpine meadow soil moisture variations. Kuuluvainen, T., et al., [1996,eng] 50-4337
- Afforestation of larch in autumn. Wang, T.X., et al., [1991,chi] 50-5847
- Alpine ecosystem snow depths derived from tree damage. Woolridge, G.L., et al., [1996,eng] 50-4629
- Arctic dwarf shrub response to simulated climatic warming. Michelsen, A., et al., [1996,eng] 50-5770
- Assessing sensitivities of forests to climate change. Fischlin, A., [1995,eng] 50-1018
- Atmospheric deposition effects on foliar injury and foliar leaching in red spruce. Schier, G.A., et al., [1992,eng] 50-4056
- Avalanche report from Mt. Shasta. Bachman, D., [1996,eng] 50-4759
- Biomass, primary production, and nutrient dynamics in a Himalayan forest. Rawat, Y.S., et al., [1994,eng] 50-5435
- Carotenoid composition and down regulation in three conifers. Adams, W.W., III, et al., [1995,eng] 50-1137
- Chlorophyll fluorescence as measure of Douglas fir cold hardiness. Fisker, S.E., et al., [1995,eng] 50-1287
- Chlorophyll fluorescence as spruce frost hardiness indicator. Binder, W.D., et al., [1996,eng] 50-6519
- Climate history from tree rings in the subarctic area of Fennoscandia. Eronen, M., et al., [1994,eng] 50-3180
- Climatic significance of bristlecone pine frost-ring records. Brunstein, F.C., [1996,eng] 50-4338
- Collected papers on forest management in the cold temperate zone. Lou, Y.H., ed, et al., [1991,chi] 50-5839
- Condition and recent trends in high-elevation red spruce populations. Peart, D.R., et al., [1992,eng] 50-4053
- Conifer relicts or paleoclimatic indicators. Mai, D.H., [1994,eng] 50-906
- Controlling the density of natural young growth stands of larch. Zhu, L.Y., et al., [1991,chi] 50-5848
- Decomposition of needle litter in a forest ecosystem. Berg, B., et al., [1995,eng] 50-2731
- Dendrochronology of climatic change in mountain environment. Tessier, L., et al., [1995,eng] 50-1019
- Dendroecology of red spruce decline. Cook, E.R., et al., [1992,eng] 50-4054
- Desiccation of white spruce seedlings planted in the southern boreal forest of British Columbia. Krasowski, M.J., et al., [1995,eng] 50-766
- Discovery of *Quercus semicarpifolia* fossils at Mount Xixia Bangma. Xu, R., [1982,chi] 50-6608
- Diversity of pine forests in the Lapland State Reserve, the Kola Peninsula. Neshataev, V.I.U., et al., [1995,eng] 50-3174
- Early biochemical changes during acclimation of poplar to low temperature. Jouve, L., et al., [1995,eng] 50-3453
- Ecology and decline of red spruce in the eastern United States. Eagar, C., ed, et al., [1992,eng] 50-4049
- Effect of climatic change on photosynthesis, respiration and transpiration of Scots pine. Laitinen, K., [1994,eng] 50-3210
- Effect of forest drainage on the carbon balance of peatland ecosystems. Laine, J., et al., [1994,eng] 50-3224
- Effects of air pollution on carbon allocation in red spruce. McLaughlin, S.B., et al., [1992,eng] 50-4058
- Effects of climatic change on onset of growth and risk of frost damage in Scots pine. Hänninen, H., [1994,eng] 50-3208
- Effects of long-term elevation in air temperature and CO₂ concentration on frost hardness of Scots pine. Repo, T., [1994,eng] 50-3213
- Effects of smelter emissions on pine tree frost hardness. Sutinen, M.L., et al., [1996,eng] 50-4309
- Effects of tree litter decomposition on forest soil composition. Harris, M.M., et al., [1996,eng] 50-3309

Trenching

- Effects of understory alder on forest soil fertility. Wurtz, T.L., [1995,eng] 50-1090
- Environmental biology of a tropical treeline species, *Polylepis sericea*. Goldstein, G., et al. [1994,eng] 50-3050
- Estimating ice-active bacterial population on mango leaves. Cazorla, F.M., et al. [1995,eng] 50-1652
- Estimation of biomass and other characteristics of boreal forest. Häme, T., et al. [1994,eng] 50-3228
- Fine root production and decomposition on drained peatlands. Finér, L., et al. [1994,eng] 50-3217
- Finnish research programme on climate change; second progress report. Kanninen, M., ed. et al. [1994,eng] 50-3179
- Forest damage mapping with multitemporal ERS-1 SAR data. Rauste, Y., [1994,eng] 50-3229
- Freeze protection of Florida citrus with microsprinkler irrigation. Parsons, L.R., et al. [1995,eng] 50-3074
- Frost damage to northern trees during climatic warming. Hänninen, H., [1996,eng] 50-6631
- Frost hardness of 16 European provenances of sessile oak growing in Scotland. Deans, J.D., et al. [1996,eng] 50-4329
- Frost heaving of forest tree seedlings: a review. Goulet, F., [1995,eng] 50-6520
- Frost resistance of artificially deacclimated pine needles. Taulavuori, K., et al. [1996,eng] 50-4151
- Genetic differentiation in the population of common pine in northwestern Russia. IANBAEV, I.U.A., et al. [1994,rus] 50-272
- Handwarmers benefit young citrus trees during freezes. Parsons, L.R., et al. [1995,eng] 50-872
- Initial phase of postfire forest regeneration in two lichen woodlands of northern Quebec. Sirois, L., [1995,eng] 50-2158
- Introduction of *Larix olgensis* into the Greater Khingan Range. Liu, X.T., et al. [1991,chi] 50-5850
- Land in Xinjiang conducive to poplar tree farming. Jia, Z.J., et al. [1991,chi] 50-5110
- Materials for a flora of the leafy mosses of the European part of the Northern Urals. Zheleznova, G.V., et al. [1995,eng] 50-3177
- Microscopy of xylem ray supercooling wood tissues response to freezing stress. Ristic, Z., et al. [1995,eng] 50-3341
- Microsporogenesis of the Siberian larch in western Siberian Zapolyar'e. Rozhdestvenskii, I.U.F., et al. [1995,eng] 50-3966
- Microsprinkler irrigation for freeze protection of young citrus trees. Davies, F.S., [1995,eng] 50-3075
- Modelling mechanism of wind-induced damage of Scots pine. Peltola, H., [1994,eng] 50-3212
- Mountain hemlock expansion in a subalpine ecosystem. Taylor, A.H., [1995,eng] 50-3321
- Natural regeneration in cut forests of the Greater Khingan Range. Zhou, W.Q., [1991,chi] 50-5843
- Northern forest plants under the pressure of environmental changes. Laine, K., et al. [1994,eng] 50-3231
- Northern wilderness areas: ecology, sustainability, values. International Conference on Northern Wilderness Areas, Arctic Centre, University of Lapland, Rovaniemi, Finland, Dec. 7-9, 1994, [1995,eng] 50-3167
- Origin of the driftwood on the coasts of Iceland; a dendrochronological study. Eggertsson, Ó., [1993,eng] 50-4771
- Overview of the reproductive biology of *Espeletia* (Asteraceae) in the Venezuelan Andes. Berry, P.E., et al. [1994,eng] 50-3056
- Paleoclimatological import of Himalayan tree palynological samples. Nakagawa, T., et al. [1996,eng] 50-4745
- Paleoecological study of forest lines in southern Sweden. Björkman, L., [1995,eng] 50-6080
- Phenotype and chromosome variability in larch in Ural forest ecosystems. Putenikhin, V.P., et al. [1994,rus] 50-270
- Physiological and genetical adaptation of forest trees to climatic changes. Beuker, E., et al. [1994,eng] 50-3205
- Physiological responses of *Pinus sylvestris* on changing carbon dioxide and ozone concentration. Holopainen, T., et al. [1994,eng] 50-3232
- Pine tree distribution in the permafrost zone of the Greater Khingan Range. Lu, G.W., [1989,chi] 50-1346
- Plant tissue protein associated with pine tree frost hardness. Ekramoddoullah, A.K.M., et al. [1995,eng] 50-1088
- Population-genetic differentiation in mountain Sukaczew larch. Timerjanov, A.Sh., et al. [1994,rus] 50-271
- Preliminary mycobiota (Aphyllophorales, Fungi) of timberline forests in the West Siberian plateau. Kotiranta, H., [1995,eng] 50-3168
- Preliminary study on the growth rate of major forest communities in the Greater Khingan Range. Gu, Y.C., [1991,chi] 50-5851
- Problems of natural reforestation of Dahurian larch (*Larix gmelinii*). Lou, Y.H., [1991,chi] 50-5842
- Recent white spruce dynamics at the subarctic alpine treeline of north-western Canada. Szeicz, J.M., et al. [1995,eng] 50-3036
- Reconstruction of 1000-year winter precipitation from tree rings in New Mexico. D'Arrigo, R.D., et al. [1991,eng] 50-5032
- Regeneration in cut natural stands of Dahurian larch. Tu, C.H., et al. [1991,chi] 50-5844
- Relationship between water content and frost tolerance in shoots of hardwood seedlings. Calmé, S., et al. [1996,eng] 50-3296
- Resistance to snow damage by trees on slopes. Bojo, C., et al. [1995,jpn] 50-990
- Response of boreal forest ecosystems to climatic change and its silvicultural implications: modelling. Kellomäki, S., et al. [1994,eng] 50-3209

- Role of above-ground biomass in carbon cycling in drained peatland ecosystems. Laiho, R., et al. [1994,eng] 50-3216
- Seasonal changes in photosystem II organisation and pigment composition in *Pinus sylvestris*. Ottander, C., et al. [1995,eng] 50-1130
- Second-order dynamic model for the frost hardness of trees. Leinonen, J., et al. [1995,eng] 50-1146
- Shrub ecology in an arctic landscape. Elvebakk, A., et al. [1995,eng] 50-6070
- Simulation of Scots pine regeneration under changing Finnish climate. Kellomäki, S., et al. [1995,eng] 50-1089
- Snow damage to spruce trees during a fertilization experiment. Valinger, E., et al. [1996,eng] 50-4330
- Soil properties beneath ceanothus and pine stands in the eastern Sierra Nevada. Johnson, D.W., [1995,eng] 50-630
- Soil respiration in a stand of Scots pine under elevated temperature. Pajari, B., [1994,eng] 50-3211
- Spaced cutting in natural larch stands. Liu, X.T., et al. [1991,chi] 50-5849
- Spruce succession, disturbance, and geomorphology on the Tanana River floodplain, Alaska. Mann, D.H., et al. [1995,eng] 50-2159
- Spruce-fir forests of eastern North America. White, P.S., et al. [1992,eng] 50-4050
- Stable carbon isotope ratios in tree rings of pines from northern Finland. Sonninen, E., et al. [1994,eng] 50-3181
- Strategy for the protection of pine crops in territories being recultivated. Iurkina, E.V., et al. [1994,rus] 50-282
- Study on artificial acceleration of natural regeneration. Lou, Y.H., [1991,chi] 50-5845
- Study on predicting the fruit bearing patterns of Dahurian larch. Liu, X.T., et al. [1991,chi] 50-5840
- Study on shortening the seedling growing period for Dahurian larch (*Larix gmelinii*). Zhang, W.Y., [1991,chi] 50-5841
- Survival and regeneration of dormant silver birch buds stored at super-low temperatures. Ryyänen, L., [1996,eng] 50-6745
- Synthesis and conclusions from studies of red spruce decline. Johnson, A.H., et al. [1992,eng] 50-4059
- Tree establishment in subalpine meadows. Woodward, A., et al. [1995,eng] 50-3322
- Tree regeneration in Colorado forest-tundra ecosystem. Weisberg, P.J., et al. [1995,eng] 50-3295
- Tree ring value determination of climatic change in Switzerland. Vogel, R.B., et al. [1996,ger] 50-6714
- Tree tissue xylem dysfunction from freezing stress. Hacke, U., et al. [1996,eng] 50-5773
- Tree-clip development in microirrigation allows easy frost and freeze protection. Thayer, S.S., [1995,eng] 50-3076
- Tree-ring dating of extreme water level events at Lake Bienville, subarctic Québec, Canada. Lepage, H., et al. [1996,eng] 50-4339
- Trichloroacetic acid in conifer needles and arboreal lichens in forest environments. Juuti, S., et al. [1996,eng] 50-4206
- Turnover and conservation of nutrients in the pachycaul *Senecio keniodendron*. Beck, E., [1994,eng] 50-3054
- White spruce light rings in northwestern Canada. Szeicz, J.M., [1996,eng] 50-5492
- Willow leaf wax variations in relation to cold survival. Hietala, T., et al. [1995,eng] 50-1649
- Winter injury and developmental cold tolerance of red spruce. DeHayes, D.H., [1992,eng] 50-4057
- Trenching**
- Arctic pipelines get to grips with scour. [1990,eng] 50-5587
- Nearshore geotechnical and environmental properties in arctic regions. Clausner, J.E., et al. [1978,eng] 50-3941
- New challenges for the pipeline engineer in the Russian Arctic. Brown, R.J., [1995,eng] 50-212
- Ocean bottom trenching by an Icelandic glacier. Björnsson, H., [1996,eng] 50-6252
- On the estimation of frost loads. Rajani, B., et al. [1996,eng] 50-6751
- Permafrost and thermal interfaces from Norman Wells pipeline ditchwall logs. Nixon, J.F., et al. [1991,eng] 50-1746
- See [also]: Snow trenches
- Tritium**
- Isotope techniques in permafrost investigations. Michel, F.A., [1989,eng] 50-2261
- Tritium analysis of ground ice: results and prospects. Chizhov, A.B., et al. [1996,rus] 50-6385
- Tropical regions**
- Ice-age tropics revisited. Anderson, D.M., et al. [1994,eng] 50-3771
- Trucks**
- See [also]: Motor vehicles
- Tundra**
- Analyzing the state of Ural tributaries of the Ob' River according to zoobenthos indicators. Sharapova, T.A., et al. [1994,rus] 50-283
- Contributions to polar geomorphology by the German Spitsbergen expeditions 1990-1992. Blümel, W.D., [1993,eng] 50-1672
- Determining the geoeological stability of the cryolithozone. Osadchaja, G.G., et al. [1996,rus] 50-6851
- Geomorphological effects of the actions of eolian processes in Oscar II Land (Spitsbergen). Sinkiewicz, M., [1989,pol] 50-2896
- Glacial geology: how ice shapes the land. Erickson, J., [1996,eng] 50-3555
- Glaciation onset related to Canadian tundra. Gallimore, R.G., et al. [1996,eng] 50-5212

Tundra climate

- Heat and moisture supply of natural biogeocoenoses in the Northern, Subpolar and Polar Urals. Belonenko, G.V., et al. [1994,rus] 50-269
- High-latitude forest ecophysiology during global warming. Kohlmaier, G.H., et al. [1995,eng] 50-771
- Permafrost microbiology. Gilichinskii, D.A., et al. [1996,rus] 50-6372
- Practical solution to the problems of biological recultivation in the Far North. Archegova, I.B., et al. [1994,rus] 50-254
- Protecting tundra ecosystems in oil extraction regions. Solov'ev, V.A., et al. [1994,rus] 50-255
- Revegetation on tracked vehicle paths. Vestspitsbergen. Korolova, N.E., [1995,eng] 50-2569
- Warta Glaciation deposits within the non-glaciated zone in the Polesie Lubelskie. Wojtanowicz, J., [1993,pol] 50-3668
- See [also]: Alpine tundra; Forest tundra
- Tundra climate**
- Aerosol deposition to an alpine tundra ecosystem. Sievering, H., et al. [1996,eng] 50-5964
- Approaches to mathematical modeling of the steppe-tundra paleoclimate. Gal-Chen, T., [1982,eng] 50-3379
- Approaches to reconstructing the climate of the steppe-tundra biome. Barry, R.G., [1982,eng] 50-3378
- Arctic dwarf shrub response to simulated climatic warming. Michelsen, A., et al. [1996,eng] 50-5770
- Arctic Flux Study: a regional view of trace gas release. Weller, G., et al. [1995,eng] 50-3809
- Arctic terrestrial ecosystems and environmental change. Callaghan, T.V., et al. [1995,eng] 50-5232
- Atmospheric deposition at Niwot Ridge, CO. Rusch, D., et al. [1995,eng] 50-2395
- Carbon cycle in the high arctic tundra of Spitsbergen. Wüthrich, C., et al. [1994,eng] 50-1595
- Causes of arctic plant diversity: origin and evolution. Murray, D.F., [1995,eng] 50-3890
- Climate of western Siberia: past and future. Bukreeva, G.F., et al. [1995,eng] 50-6583
- Control of tundra methane emission by microbial oxidation. Whalen, S.C., et al. [1996,eng] 50-4850
- Dynamics of dissolved and particulate carbon in an arctic stream. Oswald, M.W., et al. [1996,eng] 50-4851
- Energy balance and hydrological processes in an arctic watershed. Hinzman, L.D., et al. [1996,eng] 50-4844
- Energy partitioning at treeline forest and tundra sites and its sensitivity to climate change. Lafleur, P.M., et al. [1995,eng] 50-600
- Evaporation from a small lake in the continental Arctic using multiple methods. Gibson, J.J., et al. [1994,eng] 50-5694
- Hydrological controls on ecosystem gas exchange in an arctic landscape. Ostendorf, B., et al. [1996,eng] 50-4855
- Impacts of increased winter snow cover on upland tundra vegetation: a case example. Scott, P.A., et al. [1995,eng] 50-3848
- Integrated ecosystem research in northern Alaska, 1947-1994. Shaver, G.R., [1996,eng] 50-4840
- Landscape function and disturbance in arctic tundra. Reynolds, J.F., ed. et al. [1996,eng] 50-4838
- Landscape patterns of carbon dioxide exchange in tundra ecosystems. Oberbauer, S.F., et al. [1996,eng] 50-4849
- Methane emissions from wetlands at northern treeline. Rouse, W.R., et al. [1995,eng] 50-75
- Methane flux along a Siberian tundra transect. Christensen, T.R., et al. [1995,eng] 50-1334
- Modeling decomposition in arctic ecosystems. Moorhead, D.L., et al. [1996,eng] 50-4854
- Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st, Burg Wartenstein, Austria, June 8-17, 1979, [1982,eng] 50-3369
- Patterns and causes of genetic diversity in arctic plants. McGraw, J.B., [1995,eng] 50-3891
- Permafrost and climate change: geotechnical implications. Williams, P.J., [1995,eng] 50-5238
- Permafrost change in a pals peatland in northern Quebec, 1983-1993. Laberge, M.J., et al. [1995,eng] 50-77
- Physical climatology of alpine tundra, Scout Mountain, British Columbia, Canada. Saunders, I.R., et al. [1996,eng] 50-4235
- Recent advance of the arctic treeline along the eastern coast of Hudson Bay. Lesco-Sinclair, K., et al. [1995,eng] 50-3041
- Recent cooling along Hudson Strait, from permafrost temperature measurements. Allard, M., et al. [1995,eng] 50-76
- Recent white spruce dynamics at the subarctic alpine treeline of north-western Canada. Szeicz, J.M., et al. [1995,eng] 50-3036
- Responses of arctic polar desert plant litter chemistry to climatic changes. Robinson, C.H., et al. [1995,eng] 50-5100
- Siberian tundra CO₂ flux as a source of seasonal CO₂ variations. Zimov, S.A., et al. [1996,eng] 50-5868
- Snow evaporation from Spitsbergen tundra surfaces. Takeuchi, Y., et al. [1995,eng] 50-3250
- Sphagnum photosynthesis and primary production in arctic Alaska. Murray, K.J., [1994,eng] 50-689
- Temperature elevation effects on arctic soil insects. Coulson, S.J., et al. [1996,eng] 50-3529
- Tibetan alpine ecosystem response to climatic changes. Zhang, Y.Q., et al. [1996,eng] 50-5495
- Tree seedling and krummholz growth in the forest tundra of Rocky Mountain National Park. Weisberg, P.J., et al. [1995,eng] 50-72
- Tundra climate. Weller, G., [1996,eng] 50-5001
- Water relations in wet sedge-moss tundra at a high arctic oasis. Nosko, P., et al. [1995,eng] 50-74

Tundra soils

Tundra soils

- Alaskan tundra sedge response to fertilizer treatment. Shaver, G.R., et al. [1995,eng] 50-1469
- Application of foam insulation for remediation of degraded permafrost. Feklistov, V.N., et al. [1996,eng] 50-5472
- Arctic soil microbial biomass response to fertilizer additions. Jonasson, S., et al. [1996,eng] 50-6230
- Arctic terrestrial ecosystems and environmental change. Callaghan, T.V., et al. [1995,eng] 50-5232
- Biological productivity of Siberian ecosystems. Bazilevich, N.I., [1995,eng] 50-2713
- Biological rehabilitation of disturbed lands in the arctic gas-producing regions. Masalkin, S.D., [1991,eng] 50-1767
- Carbon cycle in the high arctic tundra of Spitsbergen. Wüthrich, C., et al. [1994,eng] 50-1595
- Chemical weathering in high arctic soils, Spitsbergen. Blümel, W.D., et al. [1994,ger] 50-1593
- Control of tundra methane emission by microbial oxidation. Whalen, S.C., et al. [1996,eng] 50-4850
- Decomposition of soil surface lichens in mountain tundra and taiga. Parinkina, O.M., et al. [1995,eng] 50-3875
- Disposal of drilling wastes in permafrost, Prudhoe Bay, Alaska. Hansen, P., et al. [1996,eng] 50-6134
- Disturbance and recovery of arctic Alaskan vegetation. Walker, D.A., [1996,eng] 50-4841
- Drilling wastes management for Alaska's North Slope. Fristoe, B.R., [1991,eng] 50-1723
- Dynamics of dissolved and particulate carbon in an arctic stream. Oswood, M.W., et al. [1996,eng] 50-4851
- Ecologic-genetic analysis of tundra-steppe soils in northeastern Siberia. Cherniakhovskii, D.A., [1996,eng] 50-5447
- Ecological aspects of the development of flat-polygonal bogs of Yamal. Kanev, V.V., et al. [1996,eng] 50-6580
- Ecosystem consequences of microbial diversity and community structure. Schimel, J.P., [1995,eng] 50-3903
- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: introduction. Reynolds, J.F., et al. [1996,eng] 50-4839
- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: progress and prospects. Tenhunen, J.D., et al. [1996,eng] 50-4857
- Effects of nutrient availability on arctic sedge growth. Gebauer, R.L.E., et al. [1995,eng] 50-2540
- Effects of vehicle tracks on arctic tundra. Kevan, P.G., et al. [1995,eng] 50-962
- Energy balance and hydrological processes in an arctic watershed. Hinzman, L.D., et al. [1996,eng] 50-4844
- Environmental research project for Yamburg gas fields. Chlenov, A.V., [1991,eng] 50-1766
- Estimates of North American tundra ecosystem biomass. Gilmanov, T.G., et al. [1995,eng] 50-4864
- Estimating soil water content during global climatic warming. Velichko, A.A., et al. [1995,rus] 50-4115
- Evaluation of respiration of Russian soils. Kudeiarov, V.N., et al. [1996,eng] 50-5086
- Evolution of soils in the basin of the middle reach of the Berlek River (Upper Kolyma River). Pavlov, B.A., et al. [1995,eng] 50-3877
- Forecast of rain erosion of tundra soils on the Yamal Peninsula. Grigor'ev, V.I.A., et al. [1996,eng] 50-5448
- Fungal hyphal length in litter of *Dryas octopetala* in high-arctic polar semi-desert, Svalbard. Robinson, C.H., et al. [1996,eng] 50-4010
- Geobotanical maps as an aid in assessing surface impacts. Everett, K.R., et al. [1994,eng] 50-304
- Geographical patterns in the biological productivity of soil-and-vegetation associations. Bazilevich, N.I., [1995,eng] 50-3872
- Geoscientific Spitsbergen Expedition 1990-1992. Blümel, W.D., et al. [1994,ger] 50-1574
- Heavy metal concentrations in peat profiles from the high Arctic. Headley, A.D., [1996,eng] 50-3721
- Humus conditions of oligotrophic tundra soils in Spitsbergen. Weber, L., et al. [1994,ger] 50-1594
- Hydrological controls on ecosystem gas exchange in an arctic landscape. Ostendorf, B., et al. [1996,eng] 50-4855
- Influence of local factors on solifluction rates, Spitsbergen, Svalbard. Repelewska-Pekalowa, J., et al. [1993,eng] 50-842
- Influence of pocket gophers on the status of nutrients in alpine soils. Litoor, M.I., et al. [1996,eng] 50-4951
- Integrated ecosystem research in northern Alaska, 1947-1994. Shaver, G.R., [1996,eng] 50-4840
- Landscape function and disturbance in arctic tundra. Reynolds, J.F., et al. [1996,eng] 50-4838
- Landscape patterns of carbon dioxide exchange in tundra ecosystems. Oberbauer, S.F., et al. [1996,eng] 50-4849
- Late Holocene record of aeolian and fire activity in northern Québec, Canada. Filion, L., et al. [1991,eng] 50-3304
- Mapping of soil groups on Germania Peninsula in Spitsbergen. Eberle, J., et al. [1994,ger] 50-1592
- Methane emissions from wetlands at northern treeline. Rouse, W.R., et al. [1995,eng] 50-75
- Methane flux along a Siberian tundra transect. Christensen, T.R., et al. [1995,eng] 50-1334
- Methanogenesis at low temperatures by microflora of tundra wetland soil. Kotsiurbenko, O.R., et al. [1996,eng] 50-5156
- Method for calculating the anti-erosion stability of tundra soils on the Yamal Peninsula and its basis. Grigor'ev, V.I.A., et al. [1995,rus] 50-4102
- Microbial activity of tundra and taiga soils at sub-zero temperatures. Clein, J.S., et al. [1995,eng] 50-2025
- Microbial responses to nitrogen additions in alpine tundra soil. Fisk, M.C., et al. [1996,eng] 50-6065
- Modeling decomposition in arctic ecosystems. Moorhead, D.L., et al. [1996,eng] 50-4854
- Monitoring sown meadows in eastern European tundra. Kotelina, N.S., et al. [1994,rus] 50-292
- Nutrient availability and uptake by tundra plants. Schimel, J.P., et al. [1996,eng] 50-4848
- Organic carbon storage in the soils of the Russian Federation. Orlov, D.S., et al. [1996,eng] 50-5085
- Organic compounds in a permafrost sediment core from Siberia. Matsumoto, G.I., et al. [1995,eng] 50-3844
- Oxygen supplies for bioremediation in tundra soils. White, D.M., et al. [1996,eng] 50-6135
- Paleovegetation and paleoclimatic changes in the Yukon at 6 ka BP. Cwynar, L.C., et al. [1995,eng] 50-1451
- Patch and landscape models of arctic tundra: potentials and limitations. Reynolds, J.F., et al. [1996,eng] 50-4852
- Peat formation in the tundra of the Amguema valley and the Anadyr' lowland. Smirnov, I.P., [1992,eng] 50-3435
- Periglacial denudation in the Richardson Mountains. Fried, G., et al. [1993,eng] 50-1675
- Physical climatology of alpine tundra, Scout Mountain, British Columbia, Canada. Saunders, I.R., et al. [1996,eng] 50-4235
- Possibility of using soil algae in improving disturbed tundra lands. Dubovik, I.E., et al. [1994,rus] 50-280
- Rational methods of using and recultivating agricultural terrain in Northeastern Russia. Pugachev, A.A., et al. [1994,rus] 50-287
- Responses of arctic polar desert plant litter chemistry to climatic changes. Robinson, C.H., et al. [1995,eng] 50-5100
- Revegetation of shrub tundra in disturbed soils. Harper, K.A., et al. [1996,eng] 50-5490
- Road-related disturbances in an arctic watershed. Leadley, P.W., et al. [1996,eng] 50-4856
- Russian soil geography as indicated by a new detailed map. Andronikov, V.L., et al. [1995,eng] 50-3873
- Russian-German Taymyr Expedition, 1994. Siegert, C., et al. [1995,eng] 50-1549
- Snow evaporation from Spitsbergen tundra surfaces. Takeuchi, Y., et al. [1995,eng] 50-3250
- Soils in frozen regions of the biosphere, their function and use. Makeyev, O.V., [1990,rus] 50-21
- Some contributions to the study of landforms and geomorphic processes. Barsch, D., et al. [1993,eng] 50-1671
- Terrain and vegetation of the Imnavait Creek watershed. Walker, D.A., et al. [1996,eng] 50-4842
- Tree regeneration in Colorado forest-tundra ecosystem. Weisberg, P.J., et al. [1995,eng] 50-3295
- Typization of elementary soil-cover structures occurring in European Russia. Simakova, M.S., [1995,eng] 50-3878
- Use of surfactants in oil spill remediation in cold regions. Turneo, M.A., et al. [1995,eng] 50-5723
- Water relations in wet sedge-moss tundra at a high arctic oasis. Nosko, P., et al. [1995,eng] 50-74
- What the biological recultivation of sandy quarries on Yamal has shown. Gromik, V.D., [1994,rus] 50-295

Tundra terrain

- Ardal field flows despite weather, terrain. Britton, M.W., et al. [1995,eng] 50-4396
- Assessing effects on cryogenic terrain. Zozova, L.I., et al. [1996,rus] 50-6846
- Atmospheric deposition at Niwot Ridge, CO. Rusch, D., et al. [1995,eng] 50-2395
- Boreal forest and the polar front. Pielke, R.A., et al. [1995,eng] 50-2847
- Bryophytes collected in arctic tundra of the Lyellstranda region. Swies, F., et al. [1993,eng] 50-2193
- Comparison of tundra-steppe development in Beringia. Gitterman, R.E., et al. [1982,eng] 50-3371
- Computer database on anthropogenic arctic vegetation. Sumina, O.I., [1994,rus] 50-261
- Description of Kolyma River landscapes and soils. Smith, C.A.S., et al. [1995,eng] 50-4698
- Distribution of snow cover in built-up areas (e.g., Labytangi). Lukichev, V.F., [1985,rus] 50-250
- Dry tundra succession in Central Chukotka. Kucherov, I.B., [1995,eng] 50-3173
- Early Weichselian interstadial sediments at Härnösand, Sweden. García Ambrosiani, K., et al. [1992,eng] 50-2559
- Ecological aspects of the development of flat-polygonal bogs of Yamal. Kanev, V.V., et al. [1996,eng] 50-6580
- Effect of air pollution on flora and fauna in tundra landscapes. Polshvedkin, V.V., [1994,rus] 50-256
- Effect of the geographic environment on the occurrence of surface waters from a terraced tundra plain. Szczepanik, W., [1989,pol] 50-2918
- Effects of mammals on ecosystem change at the Pleistocene-Holocene boundary. Zimov, S.A., et al. [1995,eng] 50-3895
- Effects of vehicle tracks on arctic tundra. Kevan, P.G., et al. [1995,eng] 50-962
- Environmental changes in the North under the influence of technogenic factors. Makarova, O.A., [1994,rus] 50-285
- Environmental protection measures for the West Siberian Arctic and Subarctic. Chistov, S.V., [1991,rus] 50-1298
- Evaluating the stability of natural complexes in tundra under technogenic disturbances. Demanov, V.E., et al. [1994,rus] 50-259
- Evolution of lowland landscapes in northeastern Asia during Late Quaternary time. Tomirdiario, S.V., [1982,eng] 50-3370

Tundra vegetation

- Field guide to the Churchill region, Manitoba. Dredge, L.A., [1992,eng] 50-3910
- Holocene climatic, vegetation and pollen data of Siberia adjacent to the Laptev Sea. Naidina, O.D., [1995,eng] 50-2091
- Human impact around polar stations on Fildes Peninsula. Krzyzowska, A., [1993,eng] 50-2189
- Implications of frost heave for patterned ground, Tibet Plateau, China. Wang, B.L., et al. [1995,eng] 50-2808
- Lake surface pollen sediments across the Siberian tree line. Clayden, S.L., et al. [1996,eng] 50-6746
- Land-water interactions: the influence of terrestrial diversity on aquatic ecosystems. Kling, G.W., [1995,eng] 50-3906
- Microfaunal response to fertilization of an arctic tundra stream. Rublee, P.A., et al. [1995,eng] 50-870
- Microsporogenesis of the Siberian larch in western Siberian Zapolyar'e. Rozhdestvenskiy, I.U.F., et al. [1995,eng] 50-3966
- Monitoring sown meadows in eastern European tundra. Kotelina, N.S., et al. [1994,rus] 50-292
- Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st, Burg Wartenstein, Austria, June 8-17, 1979, [1982,eng] 50-3369
- Paleogeographical studies of permafrost in the eastern Taymyr lowland. Siegert, C., et al. [1995,eng] 50-2092
- Parameterizing environmental assessments for oil and gas facility construction. Semenov, L.P., [1991,eng] 50-1765
- Plant communities of the Bol'shoj Civyrykuj River Valley, Barguzinskij Range, East Siberia. Chyryz, M., et al. [1995,eng] 50-4950
- Problems in the ecology of polar regions, vol.2: collected scientific papers. Bogoslovskaya, L.S., ed. [1991,rus] 50-1288
- Regional system of protected natural areas in the north of Western Siberia. Pokrovskaya, I.V., [1995,eng] 50-3170
- Relics of the xerophyte vegetation of Beringia in northeastern Asia. Iurtsev, B.A., [1982,eng] 50-3376
- Sensor mapping of arctic wetland distribution. Morrissey, L.A., et al. [1996,eng] 50-4764
- Shortwave reflectance properties of arctic tundra landscapes. Hope, A.S., et al. [1996,eng] 50-4845
- Some aspects of the protection of water-bog areas in European northeastern USSR. Mineev, I.U.N., [1991,rus] 50-1291
- Space imagery as a basis for modeling the dynamics of thermokarst lake plains. Viktorov, A.S., [1996,eng] 50-6647
- Spaceborne radar photography of subarctic landscapes. Vachon, P.W., et al. [1995,eng] 50-4091
- Spatial distribution of snow chemical load at the tundra-taiga transition. Pomeroy, J.W., et al. [1995,eng] 50-2412
- Spatial energy budgets in alpine tundra. Greenland, D., [1993,eng] 50-4802
- Stability of biogeocoenoses in the Far North. Mel'tser, L.I., [1990,rus] 50-1602
- Stability of tundra ecosystems and forecasting their reaction to anthropogenic transformation. Vit'chek, G.E., [1995,rus] 50-3970
- Stationary study of the dynamics of shoreline slopes in the Bol'shezemel'skaya tundra. Glavatskiy, V.V., et al. [1996,rus] 50-6410
- Summer wetlands in the frozen north. Everett, K.R., [1983,eng] 50-2501
- Taymyr Peninsula vegetation response to climatic changes. Koshkarova, V.L., [1995,eng] 50-4701
- Technological effects on tundra ecosystems and the recultivation of disturbed territory. Sumina, O.I., [1992,rus] 50-3406
- Terrain and vegetation of the Imnavait Creek watershed. Walker, D.A., et al. [1996,eng] 50-4842
- Typification of USSR surface territory for the aerospace monitoring system. Apostolov, I.U.S., et al. [1992,rus] 50-3405
- Utility of imaging spectrometry for lithologic mapping in Greenland. Rivard, B., et al. [1992,eng] 50-1651
- Vegetation cover of Québec-Labrador 6000 years BP: an essay. Richard, P.J.H., [1995,fre] 50-1457
- Wetlands and ground water in the United States. Stone, A.W., et al. [1994,eng] 50-971
- What the biological recultivation of sandy quarries on Yamal has shown. Gromik, V.D., [1994,rus] 50-295
- White spruce light rings in northwestern Canada. Szeicz, J.M., [1996,eng] 50-5492

Tundra vegetation

- Active layer changes following forest tundra fire. Mackay, J.R., [1995,eng] 50-2807
- Additions and range extensions to the vascular plant flora of the Northwest Territories, Canada. Cody, W.J., [1996,eng] 50-6342
- Aerosol deposition to an alpine tundra ecosystem. Sievering, H., et al. [1996,eng] 50-5964
- Alaskan tundra sedge response to fertilizer treatment. Shaver, G.R., et al. [1995,eng] 50-1469
- Algae in terrestrial phytocoenoses of the east European Arctic. Patova, E., [1995,eng] 50-3175
- Alpine bryophyte communities. Geissler, P., [1982,eng] 50-5413
- Analyzing the composition of tundra shrubs in Central Yamal. Arefev, S.P., [1994,rus] 50-265
- Anthropogenic impacts on biodiversity in the Arctic. Young, O.R., et al. [1995,eng] 50-3899
- Arctic dwarf shrub response to simulated climatic warming. Michelsen, A., et al. [1996,eng] 50-5770
- Arctic soil microbial biomass response to fertilizer additions. Jonasson, S., et al. [1996,eng] 50-6230
- Arctic terrestrial ecosystems and environmental change. Callaghan, T.V., et al. [1995,eng] 50-5232

Tunneling (excavation)

Tunnels

- Arctic tundra biodiversity: a temporal perspective from Late Quaternary pollen records. Brubaker, L.B., et al. [1995,eng] 50-3894
- Arctic vegetation types as response predictors to global change. Chapin, F.S., III, et al. [1996,eng] 50-6557
- Biogeochemistry of heavy metals in the Arctic. Dobrovolskii, V.V. [1995,rus] 50-3971
- Biological productivity of Siberian ecosystems. Bazilevich, N.I. [1995,eng] 50-2713
- Biomass diversity in arctic and alpine ecosystems. Pastor, J., [1995,eng] 50-3904
- Biostratigraphic evidence of an Icelandic paleoclimatic oscillation. Rundgren, M., [1995,eng] 50-2017
- Biota of the western Siberian Subarctic as an indicator of the ecological-geochemical situation in the region. Savchenko, N.V. [1994,rus] 50-298
- Bryophyte vegetation in polar regions. Longton, R.E., [1982,eng] 50-5412
- Bryophytes collected in arctic tundra of the Lyellstranda region. Swies, F., et al. [1993,eng] 50-2193
- Carbon cycle in the high arctic tundra of Spitsbergen. Wüthrich, C., et al. [1994,eng] 50-1595
- Causes and consequences of plant functional diversity in arctic ecosystems. Chapin, F.S., III, et al. [1995,eng] 50-3902
- Causes of arctic plant diversity: origin and evolution. Murray, D.F. [1995,eng] 50-3890
- Characteristics of the photosynthetic apparatus of plants. Piankov, V.I., et al. [1995,rus] 50-4107
- Climate of western Siberia: past and future. Bukreeva, G.F., et al. [1995,eng] 50-6583
- Clonal diversity in an arctic sedge. Jonsson, B.O., et al. [1996,eng] 50-6076
- CO₂ exchange in some vascular plants inhabiting the polar Urals. Gerasimenko, T.V., et al. [1996,eng] 50-6757
- Cold War stage in the light of palynological investigations. Jastrzebska-Mamekka, M., [1993,pol] 50-3656
- Comparison of tundra-steppe development in Beringia. Giterman, R.E., et al. [1982,eng] 50-3371
- Computer database on anthropogenic arctic vegetation. Sumina, O.I., [1994,rus] 50-261
- Control of tundra methane emission by microbial oxidation. Whalen, S.C., et al. [1996,eng] 50-4850
- Controlling recultivated successions. Teteriuk, B.I.U., [1994,rus] 50-300
- Development of the North and the problem of recultivation. International Conference on the Development of the North and the Problem of Recultivation, 2nd, Syktyvkar, Apr. 25-28, 1994, [1994,rus] 50-251
- Diatom, chrysophyte and protozoan distributions along a latitudinal transect in Fennoscandia. Pienitz, R., et al. [1995,eng] 50-4741
- Distribution of the high arctic grass, *Phippisia algida*. Grulke, N.E., [1995,eng] 50-78
- Distribution of vascular plants in Sørkapp Land (Spitsbergen). Dubiel, E., [1993,eng] 50-2185
- Disturbance and recovery of arctic Alaskan vegetation. Walker, D.A., [1996,eng] 50-4841
- Dry tundra succession in Central Chukotka. Kucherov, I.B., [1995,eng] 50-3173
- Dynamics of dissolved and particulate carbon in an arctic stream. Oswood, M.W., et al. [1996,eng] 50-4851
- Ecological aspects of the development of flat-polygonal bogs of Yamal. Kanev, V.V., et al. [1996,eng] 50-6580
- Ecosystem consequences of microbial diversity and community structure. Schimel, J.P., [1995,eng] 50-3903
- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: introduction. Reynolds, J.F., et al. [1996,eng] 50-4839
- Ecosystem response, resistance, resilience, and recovery in arctic landscapes: progress and prospects. Tenhunen, J.D., et al. [1996,eng] 50-4857
- Effect of air pollution on flora and fauna in tundra landscapes. Polishvedkin, V.V., [1994,rus] 50-256
- Effect of the mineral composition of soils on the coastal vegetation of the Chukotskiy Peninsula. Sergienko, L.A., [1991,rus] 50-1308
- Effects of grazing on alpine vegetation in the Caucasus and the Rockies. Bock, J.H., et al. [1995,eng] 50-73
- Effects of mammals on ecosystem change at the Pleistocene-Holocene boundary. Zimov, S.A., et al. [1995,eng] 50-3895
- Effects of nutrient availability on arctic sedge growth. Gebauer, R.L.E., et al. [1995,eng] 50-2540
- Effects of vehicle tracks on arctic tundra. Kevan, P.G., et al. [1995,eng] 50-962
- Energy balance and hydrological processes in an arctic watershed. Hinzman, L.D., et al. [1996,eng] 50-4844
- Estimates of North American tundra ecosystem biomass. Gilmanov, T.G., et al. [1995,eng] 50-4864
- Evaluating the anthropogenic transformation of tundra vegetation in the Nenets Autonomous District. Akul'shina, N.P., et al. [1994,rus] 50-257
- Evergreen shrub leaf variations in taiga and tundra landscapes. Kudo, G., [1995,eng] 50-2732
- Genetic diversity of an arctic/alpine herb species. Bauert, M.R., [1996,eng] 50-5493
- Geobotanical maps as an aid in assessing surface impacts. Everett, K.R., et al. [1994,eng] 50-304
- Geoscientific Spitsbergen Expedition 1990-1992. Blümel, W.D., ed. [1994,ger] 50-1574
- History of the steppe-tundra concept. Hibbert, D., [1982,eng] 50-3375
- Humus conditions of oligotrophic tundra soils in Spitsbergen. Weber, L., et al. [1994,ger] 50-1594
- Hydrological controls on ecosystem gas exchange in an arctic landscape. Ostendorf, B., et al. [1996,eng] 50-4855
- Impact of global warming on tundra and forest ecosystems. Plöchl, M., et al. [1995,eng] 50-4865
- Impacts of increased winter snow cover on upland tundra vegetation: a case example. Scott, P.A., et al. [1995,eng] 50-3848
- Integrated ecosystem research in northern Alaska, 1947-1994. Shaver, G.R., [1996,eng] 50-4840
- Intralandscape diversity of the flora of the Tazovsky Peninsula. Khitun, O.V., [1995,eng] 50-3172
- Isotope analysis of variable subarctic plant nutrient access. Michelsen, A., et al. [1996,eng] 50-5772
- Isotopic tracers for investigating hydrological processes. Cooper, L.W., et al. [1996,eng] 50-4846
- Lake surface pollen sediments across the Siberian tree line. Clayden, S.L., et al. [1996,eng] 50-6746
- Land-water interactions: the influence of terrestrial diversity on aquatic ecosystems. Kling, G.W., [1995,eng] 50-3906
- Landscape function and disturbance in arctic tundra. Reynolds, J.F., ed, et al. [1996,eng] 50-4838
- Landscape patterns of carbon dioxide exchange in tundra ecosystems. Oberbauer, S.F., et al. [1996,eng] 50-4849
- Late Pleistocene vegetation of eastern Beringia: pollen analysis of dated alluvium. Schweger, C.E., [1982,eng] 50-3373
- Late Quaternary vegetation variations in western Beringia. Anderson, P.M., et al. [1996,eng] 50-4341
- Lichens as an object of technogenic impact. Magomedova, M.A., et al. [1994,rus] 50-267
- Meadow ecology in the polar Urals, Russia. Gorchakovskii, P.L., et al. [1996,eng] 50-5482
- Microbial responses to nitrogen additions in alpine tundra soil. Fisk, M.C., et al. [1996,eng] 50-6065
- Modeling decomposition in arctic ecosystems. Moorhead, D.L., et al. [1996,eng] 50-4854
- Modeling dry deposition of dust along the Dalton Highway. Lamprecht, R., et al. [1996,eng] 50-4853
- Monitoring sown meadows in eastern European tundra. Kotelina, N.S., et al. [1994,rus] 50-292
- Mycorrhizal diversity in arctic and alpine tundra: an open question. Gardes, M., et al. [1996,eng] 50-6550
- Naturalist's guide to the Arctic. Pielou, E.C., [1994,eng] 50-3804
- Necessity and means of recultivating disturbed lands in the North. Kruchkov, V.V., [1994,rus] 50-253
- Northern wilderness areas: ecology, sustainability, values. International Conference on Northern Wilderness Areas, Arctic Centre, University of Lapland, Rovaniemi, Finland, Dec. 7-9, 1994, [1995,eng] 50-3167
- Numerical analysis of vegetation cover structure and anthropogenic characteristics of deposits. Gritsan, O.E., et al. [1990,rus] 50-1616
- Nutrient availability and uptake by tundra plants. Schimel, J.P., et al. [1996,eng] 50-4848
- Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st, Burg Warstein, Austria, June 8-17, 1979, [1982,eng] 50-3369
- Patch and landscape models of arctic tundra: potentials and limitations. Reynolds, J.F., et al. [1996,eng] 50-4852
- Patterns and causes of arctic plant community diversity. Walker, M.D., [1995,eng] 50-3889
- Patterns and causes of genetic diversity in arctic plants. McGraw, J.B., [1995,eng] 50-3891
- Peat formation in the tundra of the Amguema valley and the Anadyr' lowland. Smirnov, I.P., [1992,eng] 50-3435
- Plant communities of the Bol'soi Chyrykuj River Valley, Barguzinskij Range, East Siberia. Chytrý, M., et al. [1995,eng] 50-4950
- Plant functional diversity and resource control of primary production in Alaskan arctic tundras. Shaver, G.R., [1995,eng] 50-3900
- Plant species diversity of Bely Island. Rebristai, O.V., [1995,eng] 50-3176
- Plant-vertebrate herbivore interface in arctic ecosystems. Jefferies, R.L., et al. [1995,eng] 50-3905
- Plio-Pleistocene stratigraphy and paleobotany of the Kap København Formation. Bennike, O., [1990,eng] 50-5170
- Pollen content of Pleistocene deposits in the St. Lawrence Estuary. Clet, M., et al. [1995,fre] 50-4884
- Possibility of using soil algae in improving disturbed tundra lands. Dubovik, I.E., et al. [1994,rus] 50-280
- Preliminary mycobiota (Aphyllophorales, Fungi) of timberline forests in the West Siberian plateau. Kotiranta, H., [1995,eng] 50-3168
- Problems in the ecology of polar regions, vol.2: collected scientific papers. Bogoslovskaja, L.S., ed, [1991,rus] 50-1288
- Protecting tundra ecosystems in oil extraction regions. Solov'ev, V.A., et al. [1994,rus] 50-255
- Protection of relict associations on arctic islands and the Chukotskiy tundra. Iurisev, B.A., [1991,rus] 50-1307
- Protection of the vegetation cover in the Far North: problems and prospects. Druzhinina, O.A., et al. [1990,rus] 50-92
- Reaction of plant communities to technogenic disturbances in tundras in Yamal. Khitun, O.V., et al. [1994,rus] 50-258
- Responses of arctic polar desert plant litter chemistry to climatic changes. Robinson, C.H., et al. [1995,eng] 50-5100
- Revegetation of disturbed tundra in gravel excavation areas. Firsirot, N., et al. [1995,eng] 50-3843
- Revegetation of shrub tundra in disturbed soils. Harper, K.A., et al. [1996,eng] 50-5490
- Road-related disturbances in an arctic watershed. Leadley, P.W., et al. [1996,eng] 50-4856
- Role of the varieties of the *Mniaceae* family in tundra communities of Spitsbergen. Karozmarz, K., et al. [1989,pol] 50-2924
- Shortwave reflectance properties of arctic tundra landscapes. Hope, A.S., et al. [1996,eng] 50-4845
- Shrub ecology in an arctic landscape. Elvebakk, A., et al. [1995,eng] 50-6070
- Snow-vegetation relations in the forest tundra of New Quebec, Hudson Bay. Payette, S., et al. [1973,fre] 50-2852
- Some regularities in the formation of algal flora in disturbed tundra ecosystems. Sharipova, M.I.U., et al. [1994,rus] 50-268
- Spatial energy budgets in alpine tundra. Greenland, D., [1993,eng] 50-4802
- Spatial explicit modeling of arctic tundra landscapes. Ostendorf, B., [1994,eng] 50-698
- Sphagnum photosynthesis and primary production in arctic Alaska. Murray, K.J., [1994,eng] 50-689
- Stability of tundra ecosystems and forecasting their reaction to anthropogenic transformation. Vitchev, G.E., [1995,rus] 50-3970
- Structure and dynamics of the plant cover of flat hummocky Siberian bogs. Kirpotin, S.N., et al. [1995,rus] 50-5674
- Summer wetlands in the frozen north. Everett, K.R., [1983,eng] 50-2501
- Surface water chemistry and hydrology of a small arctic drainage basin. Everett, K.R., et al. [1996,eng] 50-4847
- Tardigrada of the arctic tundra with descriptions of two new species. Maucci, W., [1996,eng] 50-5293
- Tardigrades of the Taimyr peninsula with descriptions of two new species. Biserov, V.I., [1996,eng] 50-5294
- Technological effects on tundra ecosystems and the recultivation of disturbed territory. Sumina, O.I., [1992,rus] 50-3406
- Temperatures in the plant communities of West Spitsbergen. Moczyłowski, E., et al. [1993,eng] 50-2192
- Terrain and vegetation of the Imnavait Creek watershed. Walker, D.A., et al. [1996,eng] 50-4842
- Tibetan alpine ecosystem response to climatic changes. Zhang, Y.Q., et al. [1996,eng] 50-5495
- Tree seedling and krummholz growth in the forest tundra of Rocky Mountain National Park. Weisberg, P.J., et al. [1995,eng] 50-72
- Tree-ring dating of extreme water level events at Lake Bienville, subarctic Québec, Canada. Lepage, H., et al. [1996,eng] 50-4339
- Treeline/midge correlation, Northwest Territories, Canada. Walker, I.R., et al. [1995,eng] 50-3326
- Utility of imaging spectrometry for lithologic mapping in Greenland. Rivard, B., et al. [1992,eng] 50-1651
- Vascular flora of Pirttimysvuoma, a tundra-like area in northern Sweden. Sjors, H., [1995,swe] 50-1530
- Vegetation and nutrient pools in an arctic watershed. Hahn, S.C., et al. [1996,eng] 50-4843
- Vegetation cover and moisture effects on solifluction in Spitsbergen. Schmitt, E., [1994,ger] 50-1591
- Vegetation cover in technogenic regions of Northern Europe. Gruzdev, B.I., et al. [1994,rus] 50-263
- Vegetation geographical/synsocioecological research at Liefdeford (NW Spitsbergen). Thannheiser, D., [1994,ger] 50-1590
- Vegetation of the continental Northwest Territories at 6 ka BP. MacDonald, G.M., [1995,eng] 50-1452
- Vegetational history of western Alaska during the Wisconsin glacial interval and the Holocene. Ager, T.A., [1982,eng] 50-3372
- Water relations in wet sedge-moss tundra at a high arctic oasis. Nosko, P., et al. [1995,eng] 50-74
- White spruce light rings in northwestern Canada. Szeicz, J.M., [1996,eng] 50-5492
- Tunneling (excavation)**
- Artificial freezing in Tokyo subway construction. Ito, H., et al. [1992,eng] 50-37
- Artificial soil freezing for construction of railroad tunnel. Borkenstein, D., et al. [1992,eng] 50-32
- Churchill Falls development. Canadian Industries Limited. Explosives Technical Marketing Services. [1971,eng] 50-5738
- Driving the diversion tunnel at Manic 3. Canadian Industries Limited. Explosives Technical Marketing Services. [1972,eng] 50-5737
- Explosives in frozen ground. Roberts, A., [1971,eng] 50-5763
- Ground-penetrating radar investigation of the proposed dome-CARA tunnel route (South Pole Station). Arccone, S.A., et al. [1995,eng] 50-4543
- Improving the working capacity of rock-tunneling machines in frozen placer deposits. Egorov, I.K., et al. [1992,rus] 50-810
- Shaft and Tunnel Access (SATAC) concepts for developing petroleum reserves. Haskin, C.A., et al. [1991,eng] 50-1742
- Tunnel completed under Storebælt Strait. Wallis, S., [1995,eng] 50-143
- Tunnels**
- Artificial soil freezing for construction of railroad tunnel. Borkenstein, D., et al. [1992,eng] 50-32
- Concrete pavements in tunnels. Berg, J.S., et al. [1996,eng] 50-6182
- Ground-penetrating radar investigation of the proposed dome-CARA tunnel route (South Pole Station). Arccone, S.A., et al. [1995,eng] 50-4543

Turbidity

- Hydraulic structures in permafrost. Gevirts, G.I.A., [1993,eng] 50-104
 Prediction of frost heave. Jones, R.H., [1981,eng] 50-2136
 Seismic investigation of glacial tunnel channels. Pugin, A., et al., [1996,eng] 50-6257
 Thermal stresses on mine tunnels in frozen rock. Izakson, V.I., [1996,eng] 50-6495
 Tunnel valley genesis. Cofaigh, C.O., [1996,eng] 50-5012
 World's first artificial ice plug for a hydro tunnel. Berggren, A.L., et al., [1995,eng] 50-5708
See [also]: Ice tunnels; Railroad tunnels; Snow tunnels; Wind tunnels

Turbidity

- Arctic haze phenomenon. Shaw, G.E., [1995,eng] 50-4569
 Atmospheric aerosol turbidity over polar regions. Radionov, V.F., et al., [1995,eng] 50-6326
 Basal water pressure as indicator of subglacial drainage patterns. Stone, D.B., et al., [1996,eng] 50-6090
 Freshwater impact on Hudson bay ecosystems under sea ice, pt.3. Fortier, L., et al., [1996,eng] 50-4021
 Iceberg sediment deposits in a Greenland glaciomarine setting. Syvitski, J.P.M., et al., [1996,eng] 50-5319
 Lumped-element model for subglacial transport of solute and suspended sediment. Clarke, G.K.C., [1996,eng] 50-6254
 Marine record of the Russell Fjord outburst flood, Alaska. U.S.A. Cowan, E.A., et al., [1996,eng] 50-6260
 Mass exchange between meltwater streams and proglacial deposits. Holmlund, P., et al., [1996,eng] 50-6241
 Middle and Late Pleistocene evolution of the Bear Island Trough Mouth Fan. Laberg, J.S., et al., [1996,eng] 50-5322
 Particle interaction in fjord suspended sediment. Syvitski, J.P.M., et al., [1981,eng] 50-3764
 Plume of the Yukon River in relation to the oceanography of the Bering Sea. Dean, K.G., et al., [1989,eng] 50-3933
 Volcanic perturbation of the atmosphere in both polar regions: 1991-1994. Herber, A., et al., [1996,eng] 50-3444
 Volcanic stratospheric loading derived from Greenland ice core measurements. Zielinski, G.A., [1995,eng] 50-1331
See [also]: Transparency; Visibility

Turbulence

- Datasets of the scintillation experiment at Seville, New Mexico. Otto, W.D., et al., [1996,eng] 50-3849
 Expedition ARKTIK-92 of RV *Polarstern* in 1995. Krause, G., et al., [1996,eng] 50-5104
 POST: Polar Stratospheric Telescope. Bely, P.Y., et al., [1995,eng] 50-2527
 Sensible heat flux measurements near a cold surface. Yen, Y.-C., [1995,eng] 50-879

Turbulent boundary layer

- Acoustic sounder measurements of the planetary boundary layer at Maitri, Antarctica. Naitihani, J., et al., [1995,eng] 50-4208
 Canadian Atlantic Storms Program: progress and plans of the meteorological component. Stewart, R.E., [1991,eng] 50-4416
 Characteristics of surface roughness associated with leading-edge ice accretion. Shin, J.W., [1996,eng] 50-4407
 Classification of hailstorm systems in north China and the characteristics of hailstorm cells. Yang, P.C., et al., [1983,eng] 50-4095
 Comments on "The impact of the ice phase and radiation on a midlatitude squall system". Braun, S.A., et al., [1996,eng] 50-5476
 Computer modeling of avalanche triggering by wind. Sivardière, F., et al., [1995,eng] 50-1064
 Crop-hail damage in the Midwest corn belt. Hillaker, H.J., Jr., et al., [1985,eng] 50-4592
 Description of the Martian polar cap breeze. Fernández, W., [1995,eng] 50-3671
 Doppler radar analysis of a severe spring snowstorm. Shields, M.T., et al., [1993,eng] 50-5250
 Dynamical influences on the antarctic ozone hole. Harvey, M.W., et al., [1996,eng] 50-6648
 Effect of sea ice distribution on atmospheric circulation models. Grötzner, A., et al., [1996,eng] 50-5864
 Evaluation of flow resistance in ice-covered channels. Braileanu, F., et al., [1996,eng] 50-6157
 Fargo snowstorm of 6-8 January 1989. Weisman, R.A., [1996,eng] 50-6061
 Forecasting the impacts of strong wintertime post-cold front winds in the northern plains. Kapela, A.F., et al., [1995,eng] 50-350
 Hail in southwestern France. I: Hailfall characteristics and hailstorm environment. Dessens, J., [1986,eng] 50-4911
 Hailstorms in Hong Kong. Lee, B.Y., et al., [1996,eng] 50-3962
 Hailstorms in Switzerland: left movers, right movers, and false hooks. Houze, R.A., Jr., et al., [1993,eng] 50-1444
 Heat budget of a midlatitude squall line and implications for potential vorticity production. Braun, S.A., et al., [1996,eng] 50-5475
 Inertial currents in the Beaufort Sea: observations of response to wind and shear. Merrifield, M.A., et al., [1996,eng] 50-4299
 Infrasonic signatures of a polar low in the Norwegian and Barents Sea on 23-27 March 1992. Ørbæk, J.B., et al., [1995,eng] 50-2026
 Interaction of katabatic winds and the formation of blue-ice areas in East Antarctica. Van den Broeke, M.R., et al., [1995,eng] 50-459
 Introductory analysis of boundary-layer development on de-icing fluid. Perron, E., et al., [1996,eng] 50-4217
 Katabatic winds over an East Antarctic cirque. Jonsson, S., [1995,eng] 50-1338

- Large eddy simulation of the turbulent flow in a marine convective boundary layer with snow. Rao, G.S., et al., [1996,eng] 50-3683
 Long-range tropospheric transport of pollution aerosols into the Alaskan Arctic. Raatz, W.E., et al., [1984,eng] 50-4722
 Mesoscale precipitation structure in winter storms. Ramamurthy, M.K., et al., [1991,eng] 50-4417
 Mesoscale structures along wind-parallel bands in lake-effect snows. Kristovich, D.A.R., [1993,eng] 50-5249
 Modeling the influence of ice on sea level variations in the Baltic Sea. Zhang, Z.H., et al., [1995,eng] 50-6758
 Modeling the summertime arctic cloudy boundary layer. Curry, J.A., et al., [1996,eng] 50-5275
 Numerical simulation of land-breeze-induced snowbands along the western shore of Lake Michigan. Ballentine, R.J., [1982,eng] 50-3648
 Numerical simulation of polar lows. Grnäs, S., et al., [1995,eng] 50-2525
 Numerical simulation of the Martian polar cap breeze. Fernández, W., [1995,eng] 50-3672
 Objective determination of the polar vortex using Ertel's potential vorticity. Nash, E.R., et al., [1996,eng] 50-5452
 Observational studies and numerical simulations of marine convective boundary layers. Rao, G.S., [1994,eng] 50-673
 Observational study of the katabatic wind confluence zone near Siple Coast, West Antarctica. Bromwich, D.H., et al., [1996,eng] 50-4157
 On the ice-ocean response to wind forcing. Omstedt, A., et al., [1996,eng] 50-6666
 Origin and structure of a numerically simulated polar low over Hudson Bay. Albright, M.D., et al., [1995,eng] 50-2526
 Polar lows in the Labrador Sea—a case study. Moore, G.W.K., et al., [1996,eng] 50-3821
 Polar lows. Rasmussen, E.A., [1996,eng] 50-4997
 Production and depletion of supercooled liquid water in a Colorado winter storm. Politovich, M.K., et al., [1995,eng] 50-3560
 Profiles of particle characteristics in blowing snow. Naaim, M., et al., [1995,eng] 50-1062
 Seeding implications of ice crystal growth in the turbulent boundary layer. Levy, G., et al., [1984,eng] 50-4496
 Snowfall distribution on the seaside of Hokkaido, Japan. Tachibana, Y., [1995,eng] 50-342
 Storm surges in Canadian waters. Murty, T.S., et al., [1995,eng] 50-1854
 Turbulence in the statically unstable oceanic boundary layer under arctic leads. McPhee, M.G., et al., [1996,eng] 50-4297
 Warm core in a polar low observed with a satellite microwave sounding unit. Forsythe, J.M., et al., [1996,eng] 50-4186
 Wind-induced ice floe rotation and icequakes north of the Alaskan Beaufort Sea coast. Kozzo, T.L., et al., [1996,eng] 50-6508
 Winter storms over Canada. Stewart, R.E., et al., [1995,eng] 50-1852

Turbulent diffusion

- 1-D model of the formation and evolution of polar stratospheric clouds. Panegrossi, G., et al., [1996,eng] 50-3812
²³⁸Th as an indicator of particulate fluxes in the Kara Sea. Kuptsov, V.M., et al., [1995,eng] 50-3544
 Airborne hydrogen peroxide measurements in supercooled clouds. Snider, J.R., et al., [1995,eng] 50-2114
 Airborne lidar observations in the wintertime arctic stratosphere: ozone. Browell, E.V., et al., [1990,eng] 50-5976
 Antarctic stratospheric spectroscopy using N₂O observations. Crewell, S., et al., [1995,eng] 50-1329
 Application of satellite visible band data to high latitude oceans. Ahlström, K., et al., [1989,eng] 50-3934
 Arctic haze phenomenon. Shaw, G.E., [1995,eng] 50-4569
 Arctic Ocean atmospheric boundary layer structure and flow. Nilsson, E.D., [1996,eng] 50-4314
 Arctic stratospheric aerosol distribution. Brune, W.H., et al., [1990,eng] 50-6014
 ATLAS instrument characterization: accuracy of the AAASE and AAOE nitrous oxide data sets. Loewenstein, M., et al., [1990,eng] 50-6008
 Atmospheric CO₂ variations at Spitsbergen. Engardt, M., et al., [1996,eng] 50-3723
 Benthic sediment hydrocarbon sources following the Exxon Valdez oil spill. Page, D.S., et al., [1995,eng] 50-3915
 Biomass burning signatures in Greenland snow and atmosphere. Dibb, J.E., et al., [1996,eng] 50-3152
 Bottom sediment chemical composition of the Kara Sea and estuaries. Gurvich, E.G., et al., [1995,eng] 50-3545
 Chemical composition of suspended sediments in the Lena River and its mixing zone. Gordeev, V.V., et al., [1995,eng] 50-2081
 CO₂ flux through a Wyoming seasonal snowpack: diffusional and pressure pumping effects. Massman, W., et al., [1995,eng] 50-2400
 Comment on paper by Chipperfield et al. Schiller, C., et al., [1996,eng] 50-5462
 Competition of precipitation particles in a model with parameterized cloud microphysics. Wacker, U., [1995,eng] 50-413
 Compositional simulation and performance analysis of the Prudhoe Bay Miscible Gas Project. McGuire, P.L., et al., [1991,eng] 50-1702
 Condensation nuclei production in the arctic polar vortex. Wilson, J.C., et al., [1990,eng] 50-5983
 Damming James Bay: II. Impacts on coastal marshes. Price, J.S., et al., [1992,eng] 50-5031

Turbulent diffusion

- Detection of air pollution at a Svalbard mountain station. Beine, H.J., et al., [1996,eng] 50-5205
 Differentiation of Ob and Yenisei waters in the Kara Sea by alkalinity and silicate. Stunzhas, P.A., [1995,eng] 50-6688
 Distribution of oxygen and nutrients in the Laptev Sea in summer. Pivovarov, S.V., et al., [1995,eng] 50-2079
 Distribution of river run-off in the Laptev Sea: the environmental effect. Dmitrenko, I.A., et al., [1995,eng] 50-2077
 Effect of dynamical mixing in a simple model of the ozone hole. Edouard, S., et al., [1996,eng] 50-6332
 Energy balance of snow and partially snow covered areas in western Greenland. Harding, R.J., et al., [1995,eng] 50-5088
 Evolution of water vapor in the southern polar stratosphere. Lahoz, W.A., et al., [1996,eng] 50-5011
 Freshwater impact on Hudson bay ecosystems under sea ice, pt.3. Fortier, L., et al., [1996,eng] 50-4021
 Heat flux over a melting Greenland ice sheet. Braithwaite, R.J., [1995,eng] 50-1877
 Hydrogen species partitioning in the arctic stratosphere. Schiller, C., et al., [1996,eng] 50-5766
 Ice cloud microphysics in a general circulation model, pt.1. Fowler, L.D., et al., [1996,eng] 50-5015
 In situ measurements of BrO in the arctic stratosphere. Tooby, D.W., et al., [1990,eng] 50-6015
 In situ measurements of NO₂ in the Airborne Arctic Stratospheric Expedition. Carroll, M.A., et al., [1990,eng] 50-6011
 Interaction between multiple line plumes: a model study with applications to leads. Chung, C.Y., et al., [1996,eng] 50-4408
 Interpretation of nitric oxide profile observed in January 1992 over Kiruna. Kondo, Y., et al., [1996,eng] 50-6637
 Isotope analysis of Bering Sea Pleistocene sediment variations. Nakatsuka, T., et al., [1995,eng] 50-3002
 Lidar measurements of arctic polar ozone depletion. Wirth, M., et al., [1996,eng] 50-5286
 Lidar of Canadian arctic stratospheric ozone. Donovan, D.P., et al., [1995,eng] 50-3095
 Measurements of Alaskan spring atmospheric ozone content. Beine, H.J., et al., [1996,eng] 50-6640
 Measurements of upward turbulent ozone fluxes above a subalpine spruce-fir forest. Zeller, K., et al., [1996,eng] 50-5289
 Mixing in ice-covered lakes. Bengtsson, L., [1996,eng] 50-6579
 Model of cloudiness evolution in cirrus cloud masses. Khvorostanov, V.I., [1995,eng] 50-4749
 Model of wintertime stratospheric circulation. Eluszkiewicz, J., et al., [1995,eng] 50-1330
 Moraine bank ground-line process during coastal Maine deglaciation. Hunter, L.E., et al., [1996,eng] 50-6532
 N₂O as a dynamical tracer in the arctic vortex. Loewenstein, M., et al., [1990,eng] 50-6007
 North Polar stratospheric cloud dynamics. Rosen, J.M., et al., [1990,eng] 50-4723
 O₃ and NO₂ fluxes over snow measured by eddy correlation. Stocker, D.W., et al., [1995,eng] 50-2151
 Objective determination of the polar vortex using Ertel's potential vorticity. Nash, E.R., et al., [1996,eng] 50-5452
 Origin of tropospheric ozone at remote high northern latitudes in summer. Mauzerall, D.L., et al., [1996,eng] 50-3449
 Outflow of Lena River water to the Laptev Sea. Golovin, P.N., et al., [1995,eng] 50-2075
 Ozone and aerosol correlated observations at Thule, Greenland, in the period 1991-1994. Di Sarra, A., et al., [1995,eng] 50-2849
 Paleocological study of fire-induced lake water acidity variations. Korhola, A., et al., [1996,eng] 50-5020
 Particle fluxes in the Kara Sea and Ob and Yenisey estuaries. Lisitsyn, A.P., et al., [1995,eng] 50-3543
 Photocatalysts in the marine arctic troposphere in summer. Weller, R., et al., [1996,eng] 50-5255
 Plume of the Yukon River in relation to the oceanography of the Bering Sea. Dean, K.G., et al., [1989,eng] 50-3933
 Precipitation sensitivity to cloud microphysical parameters. Liu, Y.Q., et al., [1996,eng] 50-4353
 Preliminary results from POAM II: stratospheric ozone at high northern latitudes. Randall, C.E., et al., [1995,eng] 50-1213
 Pressure cutoff effects on polar stratospheric chemistry. Cerniglia, M.C., et al., [1995,eng] 50-588
 Redistribution of reactive odd nitrogen in the lower arctic stratosphere. Hübler, G., et al., [1990,eng] 50-6002
 Rocket flight cloud seeding during hail suppression experiments. Lacaux, J.P., et al., [1995,eng] 50-4971
 Satellite observation of arctic ozone depletion. Müller, R., et al., [1996,eng] 50-6636
 Scavenging rates affecting Arctic Ocean radionuclide distributions. Cochran, J.K., et al., [1995,eng] 50-4562
 Seasonal aerosol variability in the arctic marine boundary layer. Leck, C., et al., [1996,eng] 50-4320
 Sedimentation and mixing rates of radionuclides in Barents Sea sediments off Novaya Zemlya. Smith, J.N., et al., [1995,eng] 50-4561
 Selected aspects of the physical oceanography and particle fluxes in fjords of northern Norway. Wassmann, P., et al., [1996,eng] 50-5571
 Sensitivity of squall-line rear inflow to ice microphysics and environmental humidity. Yang, M.J., et al., [1995,eng] 50-1527
 Sequence types of Upper Quaternary deposits in the Kara Sea. Levitan, M.A., et al., [1995,eng] 50-3546
 Simulating the evolution of the chemical composition of the 1988/89 winter vortex. Jones, R.L., et al., [1990,eng] 50-6024

Turbulent exchange

- Simulation of the mixed-layer circulation in the Arctic Ocean. Holland, D.M., et al. [1996,eng] 50-2843
- Snow surface energy exchanges and snowmelt at a continental alpine site. Cline, D., [1995,eng] 50-2408
- Sounding of aerosol formation in the arctic stratosphere. Hofmann, D.J., et al. [1990,eng] 50-4725
- Sounding of polar stratospheric ozone annual variations. Gruzdev, A.N., et al. [1995,eng] 50-4748
- Spectroscopy of antarctic stratospheric ozone variations, pt.2. Cheng, D.J., et al. [1996,eng] 50-4349
- Stability of M_2 critical latitude in the Barents Sea. Furevik, T., et al. [1996,eng] 50-5262
- Sudden changes in arctic atmospheric aerosol concentrations during summer and autumn. Bigg, E.K., et al. [1996,eng] 50-4319
- Thermal calculation for anti-icer with micro-ejector. Qui, X.G., et al. [1995,eng] 50-1067
- Total hydrogen budget in the arctic winter stratosphere. Engel, A., et al. [1996,eng] 50-5767
- Turbulent exchange**
- Aerosols used as tracers for stratosphere-troposphere exchange in the Arctic. Foltescu, V.L., et al. [1995,eng] 50-777
- Atmosphere-surface interactions over polar oceans and heterogeneous surfaces. Vihma, T., [1995,eng] 50-4035
- Biogeochemistry of sediment diagenesis at Kara Sea-Yenisey River boundary layer. Lein, A.I.U., et al. [1995,eng] 50-3535
- Case study of turbulent parameters during the antarctic winter. Yagüe, C., et al. [1995,eng] 50-1339
- Dissolved inorganic carbon in the Kara Sea and in the mouths of the Ob and Yenisey Rivers. Makkaveev, P.N., [1995,eng] 50-3533
- Estimation of the autochthonous detritus flux through plankton communities of the Kara Sea. Lebedeva, L.P., et al. [1995,eng] 50-3541
- Flux of dense cold overflow water southeast of Iceland. Saunders, P.M., [1996,eng] 50-3145
- Fluxes of momentum and heat measured at Sevilleita, New Mexico. Hill, R.J., et al. [1996,eng] 50-3850
- Formation of ice layers in a straight walled, rectangular diffuser. Neumann, S.O., et al. [1996,eng] 50-6469
- Hydrochemical characteristics of the Kara Sea. Makkaveev, P.N., et al. [1995,eng] 50-3532
- Influence of runoff from land on the distribution of hydrologic characteristics of the Kara Sea. Burenkov, V.I., et al. [1995,eng] 50-3531
- Labile dissolved forms of heavy metals in the Kara Sea waters. Kravtsov, V.A., et al. [1995,eng] 50-3534
- Marginal filter of the ocean. Lisitsyn, A.P., [1995,eng] 50-3542
- Numerical simulation of arctic stratus cloud turbulence. Smith, W.S., et al. [1996,eng] 50-2773
- Numerical simulations of topographic Rossby waves along the East Greenland front. Maslowski, W., [1996,eng] 50-5260
- Numerical study of the circulation of the Bering Sea basin and exchange with the North Pacific Ocean. Overland, J.E., et al. [1994,eng] 50-2855
- Organization and results of aerological observations in the Aktru mountain glacier basin. Slutskii, V.I., [1973,rus] 50-424
- Ozone deposition in a subarctic woodland, pt.1. Munger, J.W., et al. [1996,eng] 50-6641
- Stratospheric polar vortex and sub-vortex: fluid dynamics and midlatitude ozone loss. McIntyre, M.E., [1995,eng] 50-5229
- Sulfur hexafluoride—a powerful new atmospheric tracer. Maiss, M., et al. [1996,eng] 50-5608
- Thermal balance of the surface of the Marukh Glacier. Voloshina, A.P., [1972,rus] 50-535
- Thermodynamic model of lake ice formation and melting. Dmitriev, N.V., [1995,eng] 50-5480
- Tidally forced under-ice Ekman layers observed by an acoustic Doppler current profiler. Marsden, R.F., et al. [1995,eng] 50-5933
- Turbulence in the statically unstable oceanic boundary layer under arctic leads. McPhee, M.G., et al. [1996,eng] 50-4297
- Turbulent heat transfer in the atmosphere of the northern European basin. Martenianova, E.S., [1992,rus] 50-1272
- Turbulent transfer over an antarctic ice shelf. Vinje, T.E., [1969,eng] 50-3953
- Variability in atmospheric circulation and moisture flux over the Arctic. Serreze, M.C., et al. [1995,eng] 50-5228
- Turbulent flow**
- Afforestation control of disastrous snow drifting on rugged terrains in Xinjiang. Hu, R.J., et al. [1994,eng] 50-4000
- Alpine ecosystem snow depths derived from tree damage. Wooldrige, G.L., et al. [1996,eng] 50-4629
- Automated wind tunnel measurements. Stumpf, P., et al. [1994,eng] 50-3689
- Estimation of mean flow velocity in ice-covered channels—discussion. Engel, P., et al. [1996,eng] 50-6338
- Frazil evolution in channels. Hammar, L., et al. [1995,eng] 50-647
- Heat transfer during a water jet impinging on the underside of ice. Bhansali, A.P., [1994,eng] 50-678
- How AgI aerosol dispersion may effect cloud seeding detection. Warburton, J.A., et al. [1995,eng] 50-347
- Inter-annual variation in the radiation and turbulent flow in the Barents, Norwegian and Greenland seas. Girdiuk, G.V., [1992,rus] 50-1270
- Interaction between multiple line plumes: a model study with applications to leads. Ching, C.Y., et al. [1996,eng] 50-4408

- Large eddy simulation of the turbulent flow in a marine convective boundary layer with snow. Rao, G.S., et al. [1996,eng] 50-3683
- Measurements of powder snow avalanche—nature. Nishimura, K., et al. [1995,eng] 50-1058
- Measurements of powder snow avalanches—laboratory. Keller, S., [1995,eng] 50-1059
- Methods for measuring discharge under ice cover—discussion. Engel, P., et al. [1996,eng] 50-2721
- Modeling the flow of a powder snow avalanche over a retaining wall. Auge, A., et al. [1995,fre] 50-4676
- New formulation for the Bowen ratio over saturated surfaces. Andreas, E.L., et al. [1996,eng] 50-6570
- Numerical model of flow in ice-covered channel. Yoon, J.Y., et al. [1996,eng] 50-2720
- Numerical study of the circulation of the Bering Sea basin and exchange with the North Pacific Ocean. Overland, J.E., et al. [1994,eng] 50-2855
- Simulation models of flow type and powder type avalanches examined by gravity currents. Fukushima, Y., et al. [1996,jpn] 50-4933
- Solidification of pure liquids and liquid mixtures inside ducts and over external bodies. Fukusako, S., et al. [1994,eng] 50-2348

Turf

See [also]: Peat

Turkey

- Frost resistance of concrete canals in Turkey. Tosun, H., [1995,eng] 50-2665

Two dimensional nucleation

- Crack nucleation in saline ice with interacting inhomogeneities. Wu, M.S., et al. [1995,eng] 50-1142
- Role of uncompressed alcohol monolayers as ice nucleators. Majewski, J., et al. [1995,eng] 50-3040

Ultimate strength

- Interpretation of in situ borehole ice strength measurement tests. Masterson, D.M., [1996,eng] 50-5049
- Large-scale loading and collapse of natural sea ice and natural-artificial ice laminates. Lichtenberger, G.J., [1991,eng] 50-1718
- Low temperature behaviour of CFRP prestressed concrete beams. Bryan, P.E., et al. [1996,eng] 50-5811
- Strength and yield criteria of frozen soil. Ma, W., et al. [1995,eng] 50-5478

Ultrasonic tests

- Detector for indicating ice formation on the wing of an aircraft. Luukkala, M., [1995,eng] 50-3472
- Effects of total water content on dynamic properties of frozen soils. Fukuda, M., et al. [1991,eng] 50-1748
- ICEYE: development of an aircraft ice accretion warning and monitoring system. Slaba, J., et al. [1995,eng] 50-4036
- Measurements of powder snow avalanches—laboratory. Keller, S., [1995,eng] 50-1059
- Nondestructive evaluation of deteriorated concrete structures. Ohtsu, M., et al. [1995,eng] 50-2672
- Ultrasonic measurement of melting ice heat transfer coefficients. Bhansali, A.P., et al. [1996,eng] 50-6760

Ultraviolet radiation

- Antarctic phytoplankton and DNA library from communities exposed to ultraviolet-B. Jovine, R.V.M., et al. [1994,eng] 50-4246
- Changes in ultraviolet radiation reaching the Earth's surface. Madronich, S., et al. [1995,eng] 50-4197
- Cloud attenuation of ultraviolet radiation in alpine regions. Blumhager, M., et al. [1996,eng] 50-3610
- Connections between atmospheric ozone, the climate system and UV-B-radiation in the Arctic. Taalas, P., et al. [1995,eng] 50-1779
- Effect of volcanic aerosols on ultraviolet radiation in Antarctica. Tsisas, S.R., et al. [1996,eng] 50-3066
- Effects of enhanced UV-B radiation on the growth of dwarf shrubs in a subarctic heathland. Johanson, U., et al. [1995,eng] 50-3618
- Fluorescence spectra and lifetime of 2-naphthol in H_2O - and D_2O -ice(l_h) single crystal. Ping, Q., et al. [1995,eng] 50-2161
- Formation of organic molecules in astronomical ices. Schutte, W.A., [1995,eng] 50-653
- Freeze-thaw effects on photoproduction of hydrogen peroxide in cloud waters. Arakaki, T., et al. [1995,eng] 50-1969
- High-resolution ultraviolet spectral irradiance monitoring in polar regions. Booth, C.R., et al. [1994,eng] 50-4242
- High-resolution ultraviolet spectral irradiance monitoring program in polar regions. Booth, C.R., et al. [1993,eng] 50-593
- Laboratory comparisons of organic materials to interstellar dust and the Murchison meteorite. Pendleton, Y.J., [1995,eng] 50-3025
- Latitudinal effect of UV-B and CO_2 on lichens. Sonesson, M., et al. [1995,eng] 50-3783
- Neutral and ionized PAHs: contribution to the interstellar extinction. Salama, F., et al. [1995,eng] 50-3021
- Observational study of the 93 "Ozone Hole" at Zhongshan Station, Antarctica. Zheng, X.D., et al. [1995,eng] 50-564
- Ozone abundance, cloud effects, and spectral irradiance. Starnes, K.H., et al. [1991,eng] 50-1417
- Ozone hole and the 1995 Nobel Prize in chemistry. Berger, A., [1996,fre] 50-5924
- Photochemistry of chlorine dioxide in ice. Pursell, C.J., et al. [1995,eng] 50-154
- Phytoplankton response to fluctuating UVB. Karentz, D., et al. [1995,eng] 50-1323

- Precision measurements and theoretical calculations for solar ultraviolet radiation. Jokela, K., et al. [1994,eng] 50-3190
- Radiation and ozone data at Zhongshan and Great Wall stations, 1993-1994. Bian, L.G., et al. [1995,eng] 50-5916
- Radiation risk. Buckley, R.G., et al. [1990,eng] 50-1204
- SCAR report No.11, Feb. 1996. Scientific Committee on Antarctic Research, [1996,eng] 50-5803
- Snow algae microbiology related to ultraviolet radiation effects. Thomas, W.H., et al. [1995,eng] 50-2814
- SO_2 distributions on Io. Sartoretti, P., et al. [1996,eng] 50-6529
- SO_2 distributions on Io. Sartoretti, P., et al. [1996,eng] 50-6529
- Sputtering of ices in the outer solar system. Johanson, R.E., [1996,eng] 50-5296
- Sputtering of water ice surfaces and the production of extended neutral atmospheres. Shi, M., et al. [1995,eng] 50-2774
- Steep latitudinal gradient of solar ultraviolet-B radiation in the arctic-alpine life zone. Caldwell, M.M., et al. [1980,eng] 50-1410
- Ultraviolet (A) and short-wave radiation on the Juneau Icefield, Alaska. Quakenbush, T., et al. [1992,eng] 50-363
- Ultraviolet and visible solar irradiance at the Weddell-Scotia Confluence, spring 1993. Sikorski, R.J., et al. [1994,eng] 50-4244
- Ultraviolet inhibition of carbon fixation in phytoplankton. Boucher, N., et al. [1994,eng] 50-4245
- Ultraviolet photodesorption from water ice. Westley, M.S., et al. [1995,eng] 50-3024
- Ultraviolet radiation changes. McKenzie, R.L., et al. [1991,eng] 50-2788
- Ultraviolet radiation effects on arctic lake water organic chemistry. Scully, N.M., et al. [1996,eng] 50-5820
- Ultraviolet radiation effects on phytoplankton during ozone depletion. Villafañe, V.E., et al. [1994,eng] 50-4243
- Ultraviolet radiation in the southern seas in early spring 1993. Wendler, G., et al. [1994,eng] 50-4241
- Ultraviolet sunlight reaching the Earth's surface. Frederick, J.E., [1993,eng] 50-1326
- Ultraviolet-B radiation and photosystem II activity in antarctic ice algae. Schofield, O., et al. [1995,eng] 50-2573
- UV radiation effects on aquatic organisms. Holm-Hansen, O., et al. [1993,eng] 50-1325
- UV-B-tolerance of alpine and arctic *Daphnia*. Zellmer, I.D., [1995,eng] 50-1972
- Underground cables**
- Icenet: hydro power for Europe. De Jong, D.J., [1995,eng] 50-2969
- Underground facilities**
- Lake Erie ice scour study. Lake, K., [1991,eng] 50-491
- Underground facilities**
- Siberia and the metro. Safronov, E.A., [1995,rus] 50-3087
- Soil thermal properties for the design of underground structures in cold regions. Steinmanis, J.E., et al. [1996,eng] 50-6146
- See [also]: Subsurface structures
- Underground ice**
- See [also]: Ground ice
- Underground pipelines**
- \$1.5 billion development plan set for BP's Alaskan Beaufort Sea fields. [1996,eng] 50-5290
- Adverse telluric effects on northern pipelines. Seager, W.H., [1991,eng] 50-1761
- Alleviating the effects of frost action on gas distribution and regulator station piping. Arnold, J.M., et al. [1985,eng] 50-4363
- Another look at oil transportation in and from the arctic environment. Marsden, S.S., Jr., et al. [1991,eng] 50-1711
- Application of pipe temperature simulator for Norman Wells oil pipeline. Nixon, J.F., et al. [1996,eng] 50-4306
- Centrifuge modeling and numerical simulation of ice scour. Yang, Q.S., et al. [1996,eng] 50-5936
- Corrosion of pipeline steels in permafrost. White, W.E., et al. [1996,eng] 50-5954
- Efficiency of steam and hot water heat distribution systems. Phetteplace, G., [1995,eng] 50-2390
- Environmental activity management and control exercised by pipelaying association. Shishov, V.N., [1991,eng] 50-1762
- Estimation of burial depths for pipelines in arctic regions. Chouinard, L.E., [1995,eng] 50-1839
- Experiments of shallow-buried water supply pipes. Meng, F.J., [1989,chi] 50-1386
- Gas pipelines operating at sub-zero temperatures in the UK. Greene, D.P., et al. [1995,eng] 50-178
- Geotechnical design of the Baydaratskaya Bay pipeline crossing. Oswell, J.M., et al. [1995,eng] 50-177
- Ground penetrating radar monitoring of permafrost along the Norman Wells pipeline. Moorman, B.J., et al. [1994,eng] 50-5590
- Groundwater flow and heat conduction in soil around a freeze pipe. Hashemi, H.T., et al. [1966,eng] 50-4606
- Permafrost and thermal interfaces from Norman Wells pipeline ditchwall logs. Nixon, J.F., et al. [1991,eng] 50-1746
- Pipeline stability in an ice-scoured seabed. Clark, J.L., et al. [1990,eng] 50-100
- Relationship of telluric currents to the corrosion of warm arctic pipelines. Sackinger, W.M., [1991,eng] 50-1725
- Screw anchors economically control pipeline buoyancy in muskeg. Robertson, R., et al. [1995,eng] 50-4003
- Solidification of water in a buried pipe. Negiz, A., et al. [1995,eng] 50-1967
- Subsea pipe freeze first on East Brac. [1993,eng] 50-5441

Underground storage

- Temperatures and stresses in frost susceptible soil around a chilled pipeline. Coutts, R.J., [1991.eng] 50-70
- Terrain performance. Norman Wells oil pipeline, Northern Canada. Harry, D.G., [1990.rus] 50-1625
- Thermal calculations for pipe laying in frozen ground. Danielian, I.U.S., et al., [1990.rus] 50-1618
- Thermal impact of a buried chilled gas pipeline. Raad, L., et al., [1996.eng] 50-6124
- Upheaval buckling of a pipeline in an arctic environment. Quimby, T.B., et al., [1996.eng] 50-6125
- Underground storage**
- Disposal of drilling wastes in permafrost, Prudhoe Bay, Alaska. Hansen, P., et al., [1996.eng] 50-6134
- Frozen soil barrier technology. Oak Ridge National Laboratory. Hazardous Waste Remedial Actions Program (HAZWARP), [1995.eng] 50-2793
- Low and high temperature materials storage. Inada, Y., [1993.eng] 50-103
- See [also]: Subsurface structures

Underice

See [also]: Ice bottom surface

Under snow facilities

- Design of undersnow facilities for Byrd Station. Mellor, M., et al., [1962.eng] 50-3805

Underwater acoustics

- 1993 biennial report. University of Washington. College of Ocean & Fisheries Science. Applied Physics Laboratory, [1993.eng] 50-5203
- Acoustic and seismic studies of ice mechanics. Farmer, D., et al., [1995.eng] 50-6272
- Acoustic response to variations of water and ice characteristics. Gavrilov, A.N., et al., [1995.eng] 50-5736
- Acoustic wave perturbations within the Barents Sea Polar Front. Lynch, J.F., et al., [1996.eng] 50-4590
- Acoustics probe sea-ice mechanics. Rajan, S.D., [1996.eng] 50-6675
- ADCP-referenced geostrophic circulation in the Bering Sea basin. Coker, E.D., et al., [1996.eng] 50-6635
- Algorithm for simulating wave propagation through sea ice. Blackowiak, A.D., et al., [1995.eng] 50-1644
- Analysis of spatial reverberation statistics in the central Arctic. LePage, K., et al., [1996.eng] 50-5191
- Case study in three-dimensional inverse methods: combining hydrographic, acoustic, and moored thermistor data in the Greenland Sea. Morawitz, W.M.L., et al., [1996.eng] 50-5167
- Characteristics of sound reflected from sea ice. Aleksandrov, I.A., et al., [1995.eng] 50-3153
- Comment on "Equation of state for extrapolation of high-pressure shock Hugoniot data". Johnson, J.B., [1995.eng] 50-5592
- Coupling and propagation of elastic waves in arctic pack ice. Jarvis, S.M., et al., [1994.eng] 50-5178
- Doppler observations of Bering Sea ice edge ocean circulation. Okkonen, S., et al., [1995.eng] 50-1032
- Effects of pack ice on Weddell Sea plankton distribution. Kaufmann, R.S., et al., [1995.eng] 50-4160
- Fifteen years of arctic acoustics and ice camps. Von der Heydt, K., et al., [1996.eng] 50-6667
- Forward coupled-mode propagation modeling for coastal acoustic tomography. Chiu, C.S., et al., [1996.eng] 50-4589
- High performance fiber optic hydrophones in the arctic environment. Yurek, A.M., et al., [1995.eng] 50-1211
- Ice-mounted acoustic element localization system. Sotin, B.J., et al., [1994.eng] 50-5174
- Improved detection of acoustic sources in ice-riding ocean environment. Zala, C.A., et al., [1995.eng] 50-1461
- Inertial currents in the Beaufort Sea: observations of response to wind and shear. Merrifield, M.A., et al., [1996.eng] 50-4299
- Interference fringes from Bering Sea sonar images. Huggert, Q.J., et al., [1992.eng] 50-4250
- Marine seismic system. Odegaard, J., et al., [1993.eng] 50-2336
- Measurement of seismo-acoustic ocean-bottom properties in the high Arctic. Dosso, S.E., et al., [1995.eng] 50-1837
- Multipath navigation in the Arctic: a feasibility test. Deffenbaugh, M., et al., [1995.eng] 50-6308
- Propagation of sound from a moving airborne source in an ice-covered ocean. Grudskii, S.M., et al., [1996.eng] 50-4626
- Remote sensing ice detection capabilities—East Coast. Rossiter, J.R., et al., [1995.eng] 50-1412
- Report on underwater noise. Davis, R.A., et al., [1991.eng] 50-3420
- Sea Ice Mechanics Initiative (SIMI) geophone/hydrophone system. Stein, P.J., et al., [1995.eng] 50-6277
- Seafloor-tethered sub-ice vertical acoustic array. Stevenson, J.M., et al., [1994.eng] 50-5173
- Seasonal development of Beaufort Sea pack ice. Melling, H., et al., [1996.eng] 50-5857
- Sediment reworking by ice gouging in the western Laptev Sea. Lindemann, F., et al., [1995.eng] 50-2096
- Sound propagation through hydrological fronts in the Barents Sea. Aleksandrov, I.A., [1995.eng] 50-3311
- Temporal evolution of under ice reflectivity. Laible, H.A., et al., [1996.eng] 50-4591
- Tidally forced under-ice Ekman layers observed by an acoustic Doppler current profiler. Marsden, R.F., et al., [1995.eng] 50-5933
- Transarctic acoustic propagation. Mikhalevsky, P.N., et al., [1995.eng] 50-6273

- Transition from *normal* to *fast* sound in liquid water. Sette, F., et al., [1996.eng] 50-5710
- Underwater explosions beneath ice. Tanglis, E., et al., [1989.eng] 50-3836
- Wind-induced ice floe rotation and icequakes north of the Alaskan Beaufort Sea coast. Kozo, T.L., et al., [1996.eng] 50-6508

Underwater ice

- Characteristics of tide-water calving at Glacier San Rafael, Chile. Warren, C.R., et al., [1995.eng] 50-450
- Numerical simulation of river ice processes. Shen, H.T., et al., [1995.eng] 50-355

Underwater permafrost

See [also]: Permafrost beneath rivers; Subsea permafrost

Underwater structures

See [also]: Hydraulic structures

Unfrozen water content

- Calibration of time domain reflectometry for measurement of liquid water in frozen soils. Seyfried, M.S., et al., [1996.eng] 50-3308
- Calorimetric determination of permafrost water-ice phase composition. Fortier, R., et al., [1996.eng] 50-4863
- Crack velocities in freshwater and saline ice. Petrenko, V.F., et al., [1996.eng] 50-5299
- Deformation properties of saline frozen rocks. Brushkov, A.V., [1996.rus] 50-6829
- Effect of cryopegs on the temperature and salinity of surrounding permafrost. Anisimova, N.P., [1996.rus] 50-6390
- Effects of total water content on dynamic properties of frozen soils. Fukuda, M., et al., [1991.eng] 50-1748
- Establishment of a model for predicting unfrozen water content in saline frozen soils. Xu, X.Z., et al., [1995.eng] 50-4517
- Experimental studies of the interaction of oil with cryogenic rocks. Ershov, E.D., et al., [1996.rus] 50-6823
- Exploring the behaviour of microwaves in a snowpack using modelling techniques. Leconte, R., [1996.eng] 50-5539
- Foundation heave induced by a subgrade cooling system over permafrost. Scher, R.L., [1991.eng] 50-1737
- Freezing characteristics of rigid plant tissues. Rajashekar, C.B., et al., [1996.eng] 50-6554
- Freezing temperature of soil and unfrozen water content in frozen soil. Tao, Z.X., et al., [1989.chi] 50-1371
- Frost characteristic of saline soil and its effect on canals. Feng, T., [1989.chi] 50-1388
- Liquid water content in temperate glacier cores. Joubert, J.L., [1963.fre] 50-5742
- Mapping the territory of the Bovanenka gas condensate field. Streletskaia, I.D., et al., [1996.rus] 50-6369
- Mechanical behavior of frozen earth materials under high pressure triaxial test conditions. Chamberlain, E.J., et al., [1970.eng] 50-3310
- Migration of moisture during the freezing of porous media. Gorelik, I.A.B., et al., [1989.rus] 50-2256
- Numerical forecasting of liquid water content to assess airframe icing risk. Lunnon, R.W., [1991.eng] 50-3266
- On the prediction of hydraulic conductivity of frozen soils. Tarasewski, V.R., et al., [1996.eng] 50-4307
- Phase composition of moisture in saline frozen ground. Motenko, R.G., et al., [1996.rus] 50-6837
- Phase equilibrium of soil water on the cryolithosphere. Kononov, A.A., [1996.rus] 50-6812
- Physical-chemical fundamentals of strength of frozen saline soils. Roman, L.T., et al., [1996.rus] 50-6826
- Pore-water pressures in freezing and thawing fine-grained soils. Eigenbrod, K.D., et al., [1996.eng] 50-4756
- Premelting of ice in porous silica glass. Ishizaki, T., et al., [1996.eng] 50-6759
- Pressure and salinity effects on phase composition of water in frozen ground. Kondakov, V.V., et al., [1990.rus] 50-1612
- Probabilistic approach to determining frost heave. Chamberlain, E.J., et al., [1981.eng] 50-2141
- Proceedings. Seminar on the Prediction of Frost Heave, Nottingham, England, Apr. 9, 1981, [1981.eng] 50-2135
- Proposed icing severity index based upon meteorology. Politovich, M.K., et al., [1991.eng] 50-3263
- Rotating multicylinder for measuring cloud water content and droplet size. Jones, K.F., et al., [1996.eng] 50-4032
- Study of the heat of crystallization of bound water in clay soils. Starostin, E.G., et al., [1996.rus] 50-6809
- Subzero temperature water behavior in nonionic microemulsions. pt.1. Gardi, N., et al., [1996.eng] 50-3409
- Supercooled liquid water in Colorado Front Range winter storms. Rasmussen, R.M., et al., [1991.eng] 50-3264
- Tree leaf cell response to cold acclimation. Rajashekar, C.B., et al., [1996.eng] 50-6555
- Unfrozen water content and grain size of Mackenzie Delta core samples. Patterson, D.E., [1994.eng] 50-400
- Unfrozen water content of soil containing NaCl relating to freezing-thawing processes. Zhang, L.X., et al., [1995.chi] 50-5637
- Unfrozen water types in hydrated phospholipid bilayers. Hsieh, C.H., et al., [1995.eng] 50-3038
- X-ray and neutron scattering studies of the structure of water at a hydrophobic surface. Bellissent-Funel, M.C., et al., [1996.eng] 50-5713
- United Kingdom**
- Gas pipelines operating at sub-zero temperatures in the UK. Greene, D.P., et al., [1995.eng] 50-178
- Glacial rebound of the British Isles—III: constraints on mantle viscosity. Lambeck, K., et al., [1996.eng] 50-4737

- Greenland and United Kingdom paleotemperatures comparisons from Greenland snow accumulation rates. Lowe, J.J., et al., [1995.eng] 50-1082
- Historical record of blizzards/major snow events in the British Isles, 1880-1989. Wild, R., et al., [1996.eng] 50-3961
- Last Scottish ice-sheet: facts and speculative discussion. Sissons, J.B., [1981.eng] 50-3620
- Satellite systems for hazard monitoring. Barrett, E.C., et al., [1992.eng] 50-619
- Snow monitoring in the United Kingdom using NOAA AVHRR imagery. Lucas, R.M., et al., [1994.eng] 50-167
- Video monitoring of atmospheric icing. Wareing, J.B., et al., [1995.eng] 50-204
- United Kingdom—England**
- Chloride problems in UK highway structures. Mawhinney, M., [1995.eng] 50-2660
- Extreme warm frontal icing on 25 February 1994 causes an aircraft accident near Uttoxeter. Pike, W.S., [1995.eng] 50-2796
- Landforms associated with Pleistocene glaciation in Ireland. Wilson, P., et al., [1995.eng] 50-5486
- Late Pleistocene deposits at Block Fen, Cambridgeshire, England. West, R.G., et al., [1995.eng] 50-6214
- Stratigraphy of Yorkshire, England glacial deposits. Evans, D.J.A., et al., [1995.eng] 50-6213
- United Kingdom—Norfolk**
- Sedimentary environments associated with glacial Lake Trimmingham, Norfolk, UK. Hart, J.K., [1992.eng] 50-2554
- United Kingdom—Northern Ireland**
- Active patterned ground and cryoturbation on Muckish Mountain, Co. Donegal, Ireland. Wilson, P., et al., [1995.eng] 50-665
- United Kingdom—Outer Hebrides**
- Glacially-influenced sedimentation on the Hebridean slope. Stoker, M.S., [1990.eng] 50-933
- United Kingdom—Scotland**
- Automated measurements of snow temperature profiles in the Cairngorm mountains, Scotland. Purves, R.S., et al., [1995.eng] 50-2795
- Deglaciation of a Late Devensian British ice sheet. Merritt, J.W., et al., [1995.eng] 50-1858
- Differences in the duration of snow cover on Scottish ski-slopes between mild and cold winters. Harrison, S.J., [1993.eng] 50-3014
- Frost hardness of 16 European provenances of sessile oak growing in Scotland. Deans, J.D., et al., [1996.eng] 50-4329
- Glacial landforms of Glen Geusachen. Bennett, M.R., et al., [1991.eng] 50-3034
- Holocene mass movement on Scottish mountains. Ballantyne, C.K., [1993.eng] 50-831
- Nunataks of the last ice sheet in northwest Scotland. McCarroll, D., et al., [1995.eng] 50-3366
- Pleistocene glacial lake sedimentology. Scotland. Benn, D.I., [1996.eng] 50-5827
- Pleistocene glaciation of the Outer Hebrides, Scotland. Ballantyne, C.K., et al., [1995.eng] 50-6212
- Scottish landform examples. 8: Solifluction sheets in the Bowmont Valley, Cheviot Hills. Harrison, S., [1993.eng] 50-3015
- Scottish landform examples. 9: Moraines in Coire na Creiche, Isle of Skye. Benn, D.I., [1993.eng] 50-3016
- United Kingdom—Suffolk**
- Correlation between Pleistocene involutions in English soil and Canadian thermokarst. Murton, J.B., et al., [1995.eng] 50-1803
- United Kingdom—Wales**
- Magnetic analysis of glacialic sediment weathering. Walden, J., et al., [1995.eng] 50-6562
- Pleistocene paraglacial landsliding in South Wales. Shakesby, R.A., et al., [1996.eng] 50-5859
- United States**
- February 1994 ice storm in the southeastern U.S. Lott, J.N., et al., [1996.eng] 50-5372
- Freezing-rain reporting capability of the Automated Surface Observing System (ASOS). Ramsay, A.C., [1996.eng] 50-5334
- Glaciers: a water resource. Meier, M.F., et al., [1995.eng] 50-3801
- Global sea level rise and glacial isostatic adjustment. Pelcier, W.R., [1996.eng] 50-4310
- Recent trends in maximum and minimum temperature threshold exceedences in the northeastern United States. DeGaetano, A.T., [1996.eng] 50-6572
- Role of January in the character of recent winters in the United States. Diaz, H.F., [1984.eng] 50-4914
- Snowfall intensity climatologies within the contiguous United States. Ryerson, C.C., [1991.eng] 50-763
- US/Japan snow avalanche joint research projects, 1992 and 1993. Nagaoka Institute of Snow and Ice Studies, [1995.jp] 50-6591
- Westwide Avalanche Network. Total snow. Summary by region. Tremper, B., [1996.eng] 50-5928
- United States—Alaska**
- 1995 annual report on Alaska's mineral resources. Schneider, J.L., ed. [1995.eng] 50-5664
- Accuracy of SPOT digital elevation model and derivatives: utility for Alaska's North Slope. Sasowsky, K.C., et al., [1992.eng] 50-1448
- Age of pre-late-Wisconsin glacial-estuarine sedimentation, Bristol Bay, Alaska. Kaufman, D.S., et al., [1996.eng] 50-4586

United States—Alaska—Alaska Range

United States—Alaska—Galena

- Alaska pipeline oil spill contingency plan. Aliyeva Pipeline Service Company, Anchorage, AK, [1991,eng] 50-850
- Alaskan Palaeogene climates as inferred from the CLAMP database. Wolfe, J.A., [1994,eng] 50-908
- Alaskan tundra sedge response to fertilizer treatment. Shaver, G.R., et al., [1995,eng] 50-1469
- Atlas of ice and snow of the Arctic Basin and Siberian shelf seas. Romanov, I.P., [1995,eng] 50-6322
- Beaufort Sea Planning Area Oil and Gas Lease Sale 144. Final environmental impact statement. U.S. Department of the Interior. Minerals Management Service. Alaska Outer Continental Shelf Region, [1996,eng] 50-4552
- Case history of a lined wastewater treatment lagoon failure. Merrill, K.S., et al., [1996,eng] 50-6150
- Climate change and the ecophysiological response of Arctic lichens. Nash, T.H., III, et al., [1995,eng] 50-3784
- Computer simulations of Alaskan neotectonics. Bird, P., [1996,eng] 50-6215
- Concrete mixture proportioning techniques for remote Alaskan locations. Nichols, M.R., et al., [1995,eng] 50-2671
- Current thermal regime of permafrost in Alaska and the predicted global warming. Osterkamp, T.E., et al., [1990,eng] 50-1663
- Developing the U.S. Coast Guard's Airborne Dispersant Delivery System capability. Bleicher, D., et al., [1995,eng] 50-5722
- Dusty deposits (loesses) of the contemporary arctic zone. Wojtanowicz, J., [1993,eng] 50-2214
- Effect of ethanol additives on odor detection of Alaskan gasolines. Zhao, X.H., et al., [1995,eng] 50-3393
- Effects of understory alder on forest soil fertility. Wurtz, T.L., [1995,eng] 50-1090
- Glacial geology: how ice shapes the land. Erickson, J., [1996,eng] 50-3555
- Hearing on arctic coastal plain leasing to petroleum interests. U.S. Congress. House. Committee on Resources, [1995,eng] 50-3455
- Ice-age history of Alaskan national parks. Elias, S.A., [1995,eng] 50-857
- II International Conference on Permafrost (USSR, Yakutsk, 16-28 July 1973): abstracts of papers. International Conference on Permafrost, 2nd, Yakutsk, July 16-28, 1973, [1973,rus] 50-5139
- Impact of federal programs on wetlands, Vol.2. U.S. Department of the Interior, [1994,eng] 50-1670
- Interactive oil spill trajectory model for Alaskan arctic waters. Britch, R.P., et al., [1990,eng] 50-468
- Late Pleistocene vegetation of eastern Beringia: pollen analysis of dated alluvium. Schweger, C.E., [1982,eng] 50-3373
- Life cycle cost analysis of a Storburn propane combustion toilet. Ritz, P., et al., [1996,eng] 50-6175
- Logistics in arctic corrosion control. Dart, T.R., [1996,eng] 50-5949
- Long-term evaluations of insulated roads and airfields in Alaska. Esch, D.C., [1995,eng] 50-1156
- Measurements of Alaskan spring atmospheric ozone content. Beine, H.J., et al., [1996,eng] 50-6640
- Mechanistic design of asphalt concrete pavements in cold regions. Vinson, T.S., et al., [1996,eng] 50-6191
- Merging U.S., Canadian arctic areas considered, [1994,eng] 50-942
- New environmental database mapping for oil spill response in Alaska. O'Brien, D.K., et al., [1995,eng] 50-5719
- Nutrient availability in Alaskan upland forest sites. Yarie, J., et al., [1994,eng] 50-4798
- Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st, Burg Warstein, Austria, June 8-17, 1979, [1982,eng] 50-3369
- Permafrost and the environment in Alaska. Lotspeich, F.B., [1973,eng] 50-854
- Proceedings. International Arctic Technology Conference, Anchorage, Alaska, May 29-31, 1991, [1991,eng] 50-1696
- Recent advances in pipeline route selection and cost estimating methodology for arctic pipelines. Kreig, R.A., et al., [1990,eng] 50-1667
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- Research on new Alaskan mining technology. Chamberlain, P.G., [1991,eng] 50-1715
- Review of bioremediation experience in Alaska. Kellens, B.L., et al., [1994,eng] 50-1473
- Risk assessment of offshore oil spills. LaBelle, R.P., [1990,eng] 50-470
- Road and airfield development in the subarctic and Arctic, Alaska and northwest Canada. Rooney, J.W., et al., [1996,eng] 50-6186
- Road and airfield maintenance in cold regions. Becker, J.C., et al., [1996,eng] 50-6193
- Safe operation of arctic offshore drilling systems in the United States. Regg, J., et al., [1995,eng] 50-216
- Satellite radar detection of Alaskan forest ecosystem types. Harrell, P.A., et al., [1995,eng] 50-3493
- Sites used for disposal of radioactive waste in Alaska, [1994,eng] 50-4943
- Smoke plume trajectory from *in situ* burning of crude oil in Alaska—field experiments. McGrattan, K.B., et al., [1995,eng] 50-5727
- Snow parameters for vehicle mobility modeling. Horrigan, T., et al., [1995,eng] 50-2708
- Solid waste management in rural Alaska. Hansen, H.M., et al., [1996,eng] 50-6171
- Source gases: concentrations, emissions, and trends. Fraser, P., et al., [1991,eng] 50-2782
- State of Alaska's participation in spill response and preparedness in the state. Vogt, D., [1992,eng] 50-87
- Study of Alaskan snow loads. Stember, J.A., [1994,eng] 50-370
- Synopsis of Alaska wetland vegetation. Batten, A.R., [1987,eng] 50-3912
- Use of layered theory in the design and evaluation of pavement systems. Hicks, R.G., et al., [1982,eng] 50-5914
- Vegetational history of western Alaska during the Wisconsin glacial interval and the Holocene. Ager, T.A., [1982,eng] 50-3372
- Water resources data for Alaska, water year 1994. Bigelow, B.B., et al., [1995,eng] 50-2169
- Witness the Arctic, Vol.3, no.2. Arctic Research Consortium of the United States, [1995,eng] 50-954
- Witness the Arctic. Arctic Research Consortium of the United States, [1995,eng] 50-953
- World of snow and ice. Kotliakov, V.M., [1994,rus] 50-1420
- United States—Alaska—Alaska Range**
- Boreal ecosystem development in the northwestern Alaska Range since 11,000 yr B.P. Hu, F.S., et al., [1996,eng] 50-4581
- Helicopter-borne alpine glacier surveys using short pulse radar. Arcone, S.A., et al., [1992,eng] 50-55
- Implications of glacial hydrology and flow for subglacial drain dynamics. Raymond, C.F., et al., [1995,eng] 50-451
- United States—Alaska—Alaska, Gulf**
- Braided outwash fans in the Gulf of Alaska. Boothroyd, J.C., et al., [1975,eng] 50-4814
- Glacially-influenced Yakutat Formation on Middleton I. Eyles, C.H., et al., [1990,eng] 50-934
- Gulf of Alaska paleoclimatological influence on marine ecology. Lago, M.B., et al., [1996,eng] 50-6625
- Shoreline impacts in the Gulf of Alaska region following the Exxon Valdez oil spill. Gilfillan, E.S., et al., [1995,eng] 50-3926
- Slope valleys in glaciomarine sediments of the Gulf of Alaska. Carlson, P.R., et al., [1990,eng] 50-922
- United States—Alaska—Anchorage**
- Anchorage, Alaska's wetlands management plan. Salvesen, D.A., [1995,eng] 50-1683
- Climatology of high-latitude air pollution as illustrated by Fairbanks and Anchorage, Alaska. Bowling, S.A., [1986,eng] 50-4910
- Corrosion in Anchorage homes and buildings. Hicks, R.J., [1996,eng] 50-5953
- Cyclic triaxial tests of the Bootlegger Cove Formation, Anchorage, Alaska. Lade, P.V., et al., [1988,eng] 50-405
- Earthquake induced landslide in Anchorage, 1964. Updike, R.G., et al., [1988,eng] 50-401
- Pavement distress caused by deep heave in Anchorage, Alaska. Tart, R.G., Jr., et al., [1996,eng] 50-6183
- Subsurface seismotectonographic mapping at Anchorage. Schmoll, H.R., et al., [1986,eng] 50-483
- United States—Alaska—Arctic National Wildlife Refuge**
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge, Alaska. Department of Environmental Conservation. Division of Environmental Quality, [1990,eng] 50-3913
- Policy issues associated with leasing of the Arctic National Wildlife Refuge, Alaska. Westermeyer, W.E., [1990,eng] 50-1607
- United States—Alaska—Barrow**
- Biogenic emission of organobromine compounds to the Arctic Ocean and atmosphere. Sturges, W.T., et al., International Conference on Natural-Produced Halogens, Delft, The Netherlands, 1995. Edited by A. Grimwell and E.W.B. de Leeuw, [1995,eng] 50-4825
- Enhanced dating procedures for arctic Quaternary marine deposits. Goodfriend, G.A., et al., [1996,eng] 50-4580
- Long-range tropospheric transport of pollution aerosols into the Alaskan Arctic. Raatz, W.E., et al., [1984,eng] 50-4722
- Sensor mapping of arctic wetland distribution. Morrissey, L.A., et al., [1996,eng] 50-4764
- Steel pipe pile foundations for school building in saline permafrost. Merrill, K.S., et al., [1996,eng] 50-6127
- United States—Alaska—Bering Glacier**
- 20th-century glacial-marine sedimentation in Vitus Lake, Bering Glacier, Alaska. U.S.A. Molnia, B.F., et al., [1996,eng] 50-6262
- Alaskan glacier races forward, [1993,eng] 50-4791
- Bering glacier resumes its surge. Molnia, B.F., [1995,eng] 50-3356
- Sediment discharge from an Alaskan surging glacier. Merrand, Y., et al., [1996,eng] 50-6266
- United States—Alaska—Bering Strait**
- Cretaceous to recent extension in the Bering Strait region, Alaska. Dumitru, T.A., et al., [1996,eng] 50-3714
- United States—Alaska—Bethel**
- Overview of environmental and hydrogeologic conditions at Bethel, Alaska. Dorava, J.M., et al., [1995,eng] 50-2484
- United States—Alaska—Bethel Field**
- Overview of environmental and hydrogeologic conditions at Bethel Field, Alaska. Cowan, J.R., [1995,eng] 50-2492
- United States—Alaska—Big Delta**
- Overview of environmental and hydrogeologic conditions near Big Delta, Alaska. Nelson, G.L., [1995,eng] 50-2490
- United States—Alaska—Black Rapids Glacier**
- Quiescent-phase evolution of a surge-type glacier: Black Rapids Glacier, Alaska. U.S.A. Heinrichs, T.A., et al., [1996,eng] 50-4896
- United States—Alaska—Brooks Range**
- Geological transect of the Brooks Range, Alaska. Kelley, J.S., et al., [1995,eng] 50-5198
- Late-Holocene glaciation and twentieth-century retreat, north-eastern Brooks Range, Alaska. Evison, L.H., et al., [1996,eng] 50-4371
- Permafrost soil thawing after forest fires. Swanson, D.K., [1996,eng] 50-5497
- Spatial explicit modeling of arctic tundra landscapes. Ostendorf, B., [1994,eng] 50-698
- United States—Alaska—Burroughs Glacier**
- Ice-flow indications of complex Alaskan deglaciation events. Syversen, K.M., [1995,eng] 50-1801
- United States—Alaska—Chandalar Lake**
- Overview of environmental and hydrogeologic conditions at Chandalar Lake, Alaska. Cowan, J.R., [1995,eng] 50-2497
- United States—Alaska—Childs Glacier**
- Alaskan glacier basal ice deformation. Hart, J.K., [1995,eng] 50-1882
- United States—Alaska—Cold Bay**
- Overview of environmental and hydrogeologic conditions at Cold Bay, Alaska. Rice, W.A., et al., [1995,eng] 50-2489
- United States—Alaska—Colville River**
- Nilssoniocladus* in the Cretaceous Arctic: new species and biological insights. Spicer, R.A., et al., [1996,eng] 50-6541
- United States—Alaska—Cook Inlet**
- Conglomerate identification and mapping leads to development success in a mature Alaskan field. O'Sullivan, T.P., et al., [1991,eng] 50-1756
- Current water quality in Cook Inlet, Alaska, study. University of Alaska. Environment and Natural Resources Institute, [1995,eng] 50-4400
- Sea ice formation in Cook Inlet Alaska: a high energy environment. Nelson, W.G., [1995,eng] 50-2944
- Underwater maintenance and inspection of CP systems (Cook Inlet, Alaska). Daley, J.C., et al., [1996,eng] 50-5502
- Waterflood monitoring enhancement of offshore Alaskan oil reservoir management. Starzer, M.R., et al., [1991,eng] 50-1712
- United States—Alaska—Copper River Delta**
- Oil spill risks for Copper River Delta in Alaska. Christensen, F.T., et al., [1996,eng] 50-5556
- United States—Alaska—De Long Mountains**
- Air quality at a zinc/lead mine in arctic Alaska. MacCay, C., et al., [1996,eng] 50-6174
- United States—Alaska—Deering**
- Demonstrating brine water wells and toilets for Deering, Alaska. Lundell, R.H., [1996,eng] 50-6153
- United States—Alaska—Eagle River Flats**
- Initial analyses of Eagle River Flats hydrology and sedimentology, Fort Richardson, Alaska. Lawson, D.E., et al., [1995,eng] 50-392
- Persistence of white phosphorus particles in sediment. Walsh, M.E., et al., [1995,eng] 50-878
- Silt fence testing for Eagle River Flats dredging. Henry, K.S., et al., [1995,eng] 50-880
- Simple field screening method for white phosphorus (P₄) in sediment. Walsh, M.E., et al., [1995,eng] 50-2328
- Use of geosynthetics to prevent waterfowl white phosphorus poisoning. Henry, K.S., et al., [1995,eng] 50-2865
- United States—Alaska—Eielson Air Force Base**
- Innovative bioventing system construction/operation in cold regions. Strickland, K.K., et al., [1996,eng] 50-6136
- United States—Alaska—Elmendorf Air Force Base**
- Innovative bioventing system construction/operation in cold regions. Strickland, K.K., et al., [1996,eng] 50-6136
- United States—Alaska—Exit Glacier**
- Alaskan glacier basal ice deformation. Hart, J.K., [1995,eng] 50-1882
- United States—Alaska—Fairbanks**
- Climatology of high-latitude air pollution as illustrated by Fairbanks and Anchorage, Alaska. Bowling, S.A., [1986,eng] 50-4910
- Controls on CH₄ flux from an Alaskan boreal wetland. Moosavi, S.C., et al., [1996,eng] 50-6053
- Moisture conditions and control in buildings in Fairbanks, Alaska. Adkins, R., [1996,eng] 50-6138
- Municipal solid waste characterization in a cold remote region. Ogbe, A.A., et al., [1996,eng] 50-6172
- Performance of a Triodetic foundation near Fairbanks, Alaska. Kinney, T.C., [1996,eng] 50-6131
- United States—Alaska—Farewell**
- Overview of environmental and hydrogeologic conditions at Farewell, Alaska. Dorava, J.M., et al., [1995,eng] 50-2485
- United States—Alaska—Fort Richardson**
- Dredging Eagle River Flats: remediation study in an active impact area. Walsh, M.R., [1996,eng] 50-5913
- United States—Alaska—Fort Wainwright**
- In situ remediation of hydrocarbon contaminated soil and groundwater. Gould, T.F., et al., [1996,eng] 50-6116
- United States—Alaska—Fort Yukon**
- Overview of environmental and hydrogeologic conditions at Fort Yukon, Alaska. Nakanishi, A.S., et al., [1994,eng] 50-2482
- United States—Alaska—Galena**
- Overview of environmental and hydrogeologic conditions at Galena, Alaska. Nakanishi, A.S., et al., [1994,eng] 50-2481

United States—Alaska—Glacier Bay

United States—Alaska—Prudhoe Bay

United States—Alaska—Glacier Bay

- Ablation of debris-covered ice at Burroughs Glacier. Syverson, K.M., et al. [1995.eng] 50-3739
- Driving stress, hydraulic head and landform genesis at the southeastern Burroughs Glacier. Gaffield, S.G., et al. [1995.eng] 50-3740
- Effects of moraine-bank sediment budgets on valley glacier stability. Hunter, L.E., et al. [1996.eng] 50-6263
- Flux of debris transported by ice at three Alaskan tidewater glaciers. Hunter, L.E., et al. [1996.eng] 50-4897
- Glacier fluctuations and sediment yields in Glacier Bay. Cai, J.K., et al. [1995.eng] 50-3733
- Glacier process studies at Burroughs Glacier. Mickelson, D.M., et al. [1995.eng] 50-3738
- Grounding line and mass balance effects on glacier stability. Hunter, L.E., [1994.eng] 50-694
- How unique is primary plant succession at Glacier Bay. Walker, L.R., [1995.eng] 50-3749
- Ice-proximal sediment dynamics in Glacier Bay. Hunter, L.E., et al. [1995.eng] 50-3735
- Micromorphology of basal till, Burroughs Glacier, Alaska. Ham, N.R., et al. [1995.eng] 50-3741
- Modeling forest succession at Glacier Bay. Weishampel, J.F., et al. [1995.eng] 50-3744
- Nitrogen fixers in early primary succession at Glacier Bay. Kohls, S.J., et al. [1995.eng] 50-3747
- Patterns of early lake ontogeny in Glacier Bay as inferred from diatom assemblages. Fritz, S.C., et al. [1995.eng] 50-3750
- Primary succession and future vegetation patterns at Glacier Bay. Chapin, F.S., III, et al. [1995.eng] 50-3743
- Qualitative successional models in Glacier Bay. Sharman, L.C., et al. [1995.eng] 50-3753
- Repeat photography and landscape change at Glacier Bay, 1879-1993. Lawrence, D.B., et al. [1995.eng] 50-3742
- Sediment yields, lithofacies and mudrock in glacial marine environments. Cai, J.K., [1994.eng] 50-695
- Species interactions during primary succession at Glacier Bay. Fastie, C.L., [1995.eng] 50-3745
- Stable isotopic investigation of nitrogen dynamics at Glacier Bay, Alaska. Hobbie, E.A., et al. [1995.eng] 50-3746
- Suspended sediments and organic carbon in Glacier Bay fjords. Cowan, E.A., [1995.eng] 50-3734
- United States—Alaska—Glacier Bay National Park**
- Bedrock geologic research in Glacier Bay National Park. Brew, D.A., et al. [1995.eng] 50-3732
- Climatic controls on glacier mass balance in Glacier Bay. Hunter, L.E., et al. [1995.eng] 50-3737
- Global change research at Glacier Bay National Park. Powell, R.D., [1995.eng] 50-3731
- International gaging station established on the Alsek River. Deschu, N., et al. [1995.eng] 50-3752
- Zooplankton communities of lakes in Glacier Bay National Park. Olson, O.G., et al. [1995.eng] 50-3751
- United States—Alaska—Gulkana Glacier**
- Mass balance and runoff data at Gulkana Glacier, Alaska, 1992. March, R.S., et al. [1996.eng] 50-4603
- United States—Alaska—Hinchinbrook Island**
- Overview of environmental and hydrogeologic conditions at Hinchinbrook Island, Alaska. Dorava, J.M., et al. [1995.eng] 50-2486
- United States—Alaska—Hughes**
- Soil geomorphology on Alaskan permafrost terrain. Swanson, D.K., [1996.eng] 50-6518
- United States—Alaska—Iliamna**
- Overview of environmental and hydrogeologic conditions at Iliamna, Alaska. Hall, J.D., [1995.eng] 50-2495
- United States—Alaska—Imnavait Creek**
- Use of SAR satellite imagery to measure active layer moisture contents in arctic Alaska. Kane, D.L., et al. [1994.eng] 50-5695
- United States—Alaska—Jim River**
- Foundation rehabilitation at ADOT/PF Jim River Maintenance Camp. Rooney, J.W., et al. [1991.eng] 50-1768
- United States—Alaska—Juneau**
- Ultraviolet (A) and short-wave radiation on the Juneau Icefield, Alaska. Quakenbush, T., et al. [1992.eng] 50-363
- United States—Alaska—Kenai Fjords National Park**
- Evaluation of controls on iceberg-calving glaciers. Wiles, G.C., et al. [1995.eng] 50-3324
- Vegetation chronosequence near Exit Glacier, Kenai Fjords National Park, Alaska, U.S.A. Helm, D.J., et al. [1995.eng] 50-3325
- United States—Alaska—Koparuk**
- Challenge of West Sak heavy oil: analysis of an innovative approach. Gondoun, M., et al. [1991.eng] 50-1713
- United States—Alaska—Kuparuk River**
- Geostatistical analysis of waterflood recoveries from an Alaskan drillsite. Wolcott, D.S., et al. [1991.eng] 50-1757
- Injection profiling in the Kuparuk River Field, Alaska. Scott, H.D., et al. [1991.eng] 50-1741
- Optimal fracture stimulation of a moderate permeability reservoir, Kuparuk River unit. Pearson, C.M., et al. [1991.eng] 50-1701
- Protection of arctic bridge crossing by refrigerated foundation. Christopherson, A.B., et al. [1991.eng] 50-1734
- United States—Alaska—Malaspina Lake**
- Sedimentation and physical limnology in proglacial Malaspina Lake, southeastern Alaska. Gustavson, T.C., [1975.eng] 50-4817

United States—Alaska—Matanuska Glacier

- Subglacial ice accretion in an Alaskan glacier. Strasser, J.C., et al. [1996.eng] 50-6250
- United States—Alaska—McArthur River**
- Optimizing fracture stimulations in the McArthur River oil reservoir, Alaska. Schoffmann, A.B., [1991.eng] 50-1750
- United States—Alaska—McGrath**
- Petroleum hydrocarbon removal via volatilization and biodegradation at McGrath, Alaska. Ramert, P.C., et al. [1996.eng] 50-6115
- United States—Alaska—Mendenhall Glacier**
- Report of the Hokkaido University 3rd Alaska glacier survey, June 17-July 28, 1975. Higashi, A., [1976.jp] 50-482
- United States—Alaska—Middleton Island**
- Glacially-influenced Yakataga Formation on Middleton I. Eyles, C.H., et al. [1990.eng] 50-934
- United States—Alaska—Natanuska Glacier**
- Alaskan glacier basal ice deformation. Hart, J.K., [1995.eng] 50-1882
- United States—Alaska—Nome**
- New, low-cost, ice- and wave-resistant port facility at Nome, Alaska. Swigart, W.S., et al. [1991.eng] 50-1732
- Overview of environmental and hydrogeologic conditions at Nome, Alaska. Dorava, J.M., [1995.eng] 50-2488
- Wastewater treatment facility aeration project. Eddy, G.L., [1996.eng] 50-6149
- United States—Alaska—North Slope**
- Acid stimulation of Endicott/Kekikuk Formation, North Slope, Alaska. Hsi, C.K.D., et al. [1991.eng] 50-1751
- Alternatives for closure of solid oily waste sites on the North Slope of Alaska. Kellems, B.L., et al. [1991.eng] 50-1709
- Clouds and snowmelt on the North Slope of Alaska. Zhang, T., et al. [1996.eng] 50-5284
- Development of an Alaskan North Slope soils database for drill cuttings reclamation. Schumacher, J.P., et al. [1991.eng] 50-1722
- Disposal of drilling wastes in permafrost, Prudhoe Bay, Alaska. Hansen, P., et al. [1996.eng] 50-6134
- Disturbance and recovery of arctic Alaskan vegetation. Walker, D.A., [1996.eng] 50-4841
- Drilling waste disposal in the Arctic using below-grade freeze-back. Maunders, T.E., et al. [1991.eng] 50-1697
- Drilling wastes management for Alaska's North Slope. Fristoe, B.R., [1991.eng] 50-1723
- Dynamics of dissolved and particulate carbon in an arctic stream. Oswood, M.W., et al. [1996.eng] 50-4851
- Energy balance and hydrological processes in an arctic watershed. Hinzman, L.D., et al. [1996.eng] 50-4844
- Future of oil and gas in northern Alaska. Bird, K.J., et al. [1995.eng] 50-5642
- Hydrogen sulfide forecasting techniques for the Kuparuk River Field. Frazer, L.C., et al. [1991.eng] 50-1729
- Hydrological controls on ecosystem gas exchange in an arctic landscape. Ostendorf, B., et al. [1996.eng] 50-4855
- Integrated ecosystem research in northern Alaska, 1947-1994. Shaver, G.R., [1996.eng] 50-4840
- Isotopic tracers for investigating hydrological processes. Cooper, L.W., et al. [1996.eng] 50-4846
- Landscape patterns of carbon dioxide exchange in tundra ecosystems. Oberbauer, S.F., et al. [1996.eng] 50-4849
- Manufacture and installation of duplex stainless steel line pipe for arctic application. Noble, D.N., [1996.eng] 50-5957
- Modeling dry deposition of dust along the Dalton Highway. Lamprecht, R., et al. [1996.eng] 50-4853
- Nutrient availability and uptake by tundra plants. Schimel, J.P., et al. [1996.eng] 50-4848
- Parasitic protozoans in North Slope drinking water. Pollen, M.R., et al. [1996.eng] 50-6148
- Patch and landscape models of arctic tundra: potentials and limitations. Reynolds, J.F., et al. [1996.eng] 50-4852
- Review of select exploration and development activity in state nearshore areas. Hansen, J., [1995.eng] 50-6305
- Road-related disturbances in an arctic watershed. Leadley, P.W., et al. [1996.eng] 50-4856
- Satellite SAR identification of lake water resources on the North Slope. Jeffries, M.O., et al. [1996.eng] 50-6177
- Sphagnum photosynthesis and primary production in arctic Alaska. Murray, K.J., [1994.eng] 50-689
- Surface water chemistry and hydrology of a small arctic drainage basin. Everett, K.R., et al. [1996.eng] 50-4847
- Terrain and vegetation of the Imnavait Creek watershed. Walker, D.A., et al. [1996.eng] 50-4842
- Transportation of Alaska North Slope natural gas to market. Lannom, D.A., et al. [1996.eng] 50-6126
- Upheaval buckling of a pipeline in an arctic environment. Quimby, T.B., et al. [1996.eng] 50-6125
- Use of acrolein as a hydrogen sulfide scavenger in multiphase production. Howell, J.J., et al. [1991.eng] 50-1704
- Vegetation and nutrient pools in an arctic watershed. Hahn, S.C., et al. [1996.eng] 50-4843
- United States—Alaska—Petersburg**
- Measurements of ice and snow loads on the Tyee Lake 138 kV line. Peabody, A.B., [1996.eng] 50-5346
- Overview of environmental and hydrogeologic conditions near Petersburg, Alaska. Hogan, E.V., [1995.eng] 50-2491
- United States—Alaska—Point Barrow**
- Increased assimilation of CO₂ by northern land plants. Keeling, C.D., et al. [1996.eng] 50-5524
- United States—Alaska—Prince William Sound**
- Aerial surveillance of oil sheen following the Exxon Valdez oil spill shoreline cleanup. Taft, D.G., et al. [1995.eng] 50-3919

- Alyeska/SERVS technological innovations for oil spill response. Hillman, S.O., [1996.eng] 50-5552
- Basis for statistical inferences in coastal injury assessment of Exxon Valdez oil spill. McDonald, L.L., et al. [1995.eng] 50-3922
- Benthic sediment hydrocarbon sources following the Exxon Valdez oil spill. Page, D.S., et al. [1995.eng] 50-3915
- Chemical and toxicological evaluation of water quality following the Exxon Valdez oil spill. Neff, J.M., et al. [1995.eng] 50-3917
- Cleansing role of clay-oil flocculation in shoreline sediments following an oil spill. Bragg, J.R., et al. [1995.eng] 50-3918
- Comparison of shoreline assessment study designs used for the Exxon Valdez oil spill. Gilfillan, E.S., et al. [1996.eng] 50-5554
- Contained controlled burning of spilled oil during the Exxon Valdez oil spill. Allen, A.A., [1990.eng] 50-471
- Effects of the Exxon Valdez oil spill on subtidal sediments in bays. Page, D.S., et al. [1996.eng] 50-5563
- Enhancing the encounter rate of a prototype weir skimmer. Delozier, M.J., [1995.eng] 50-5724
- Escorting and tethering oil tankers in Prince William Sound. Corsini, T.J., [1995.eng] 50-5718
- Exxon Valdez Oil Spill Restoration Plan. Final environmental impact statement. Exxon Valdez Oil Spill Trustee Council. Anchorage, AK, [1994.eng] 50-369
- Exxon Valdez Oil Spill Restoration Plan. Exxon Valdez Oil Spill Trustee Council. Anchorage, AK, [1994.eng] 50-398
- Fingerprinting hydrocarbons in the biological resources of the Exxon Valdez spill area. Bence, A.E., et al. [1995.eng] 50-3916
- Geochemical analyses of Exxon Valdez oil spill. Bence, A.E., et al. [1996.eng] 50-6339
- Oil recovery and nearshore protection in Prince William Sound. Hood, S.D., [1995.eng] 50-5721
- Prince William Sound intertidal biota—good news and bad news five years later. Houghton, J.P., et al. [1995.eng] 50-5730
- Prince William Sound, Alaska beach tar ball origins. Kvenvolden, K.A., et al. [1995.eng] 50-1864
- Shoreline clean-up techniques—Exxon Valdez operations. Numan, S.A., [1990.eng] 50-478
- Shoreline cleanup following the Exxon Valdez oil spill. Owens, E.H., et al. [1990.eng] 50-476
- Shoreline cleanup following the Exxon Valdez oil spill. Teal, A.R., [1990.eng] 50-477
- Shoreline ecology program following the Exxon Valdez oil spill. pt.1. Page, D.S., et al. [1995.eng] 50-3921
- Shoreline ecology program following the Exxon Valdez oil spill. pt.2. Boehm, P.D., et al. [1995.eng] 50-3924
- Shoreline ecology program following the Exxon Valdez oil spill. pt.3. Gilfillan, E.S., et al. [1995.eng] 50-3925
- Shoreline monitoring following the Exxon Valdez incident. Owens, E.H., et al. [1990.eng] 50-480
- Shoreline oiling conditions in Prince William Sound following the Exxon Valdez oil spill. Neff, J.M., et al. [1995.eng] 50-3923
- Subsurface Oil in Coarse Sediments Experiments (SOCSEX II). Harper, J.R., et al. [1995.eng] 50-5726
- Symposium on Environmental Toxicology and Risk Assessment, 3rd, Atlanta, GA, Apr. 26-28, 1993. Exxon Valdez oil spill: fate and effects in Alaska waters. [1995.eng] 50-3914
- Use of mussels to assess bioavailability of hydrocarbons from the Exxon Valdez oil spill. Shigenaka, G., et al. [1995.eng] 50-3920
- United States—Alaska—Prudhoe Bay**
- Analysis of return drilling fluids in Prudhoe Bay oil wells. Fambrough, J.D., et al. [1991.eng] 50-1714
- Compositional simulation and performance analysis of the Prudhoe Bay Miscible Gas Project. McGuire, P.L., et al. [1991.eng] 50-1702
- Development of procedures for hot tap welding onto sour service pipelines. Felix, R.D., et al. [1991.eng] 50-1724
- Disposal of drilling wastes in permafrost, Prudhoe Bay, Alaska. Hansen, P., et al. [1996.eng] 50-6134
- Evolving description of a fractured carbonate reservoir: the Lisburne Field, Prudhoe Bay, Alaska. Missman, R.A., et al. [1991.eng] 50-1755
- Fishing with 1.5- and 1.75-in. coiled tubing at western Prudhoe Bay, Alaska. Mullin, M.A., et al. [1991.eng] 50-1699
- Gas measurement with large Venturi tubes at Prudhoe Bay, Alaska. Metz, W.P., et al. [1991.eng] 50-1759
- Lost circulation material usage in coiled tubing remedial cementing at Prudhoe Bay. Krause, R.E., [1991.eng] 50-1706
- Oil-soluble resin-diverting agents in Prudhoe Bay acidizing operations. Strassner, J.E., et al. [1991.eng] 50-1698
- Prudhoe Bay field, Alaska, waterflood injection water quality and remedial treatment study. Hsi, C.D., et al. [1991.eng] 50-1700
- Recovery target: Prudhoe Bay heavy crude oil. [1995.eng] 50-3690
- Reservoir potential of an upwelling deposit, Prudhoe Bay. Kupecz, J.A., [1995.eng] 50-6551
- Thixotropic, crosslinking polymer/borate/salt plug: development and application. Powell, J.W., et al. [1991.eng] 50-1707
- Wellbore multiphase-flow correlation for the eastern operating area of Prudhoe Bay. Bradley, D.A., [1991.eng] 50-1728
- West Dock Causeway bridge piers. Christopherson, A.B., et al. [1996.eng] 50-6133

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- United States—Alaska—Puntilla Lake**
Overview of environmental and hydrogeologic conditions at Puntilla Lake, Alaska. Dorava, J.M., et al. [1995,eng] 50-2487
- United States—Alaska—Russell Fjord**
Marine record of the Russell Fjord outburst flood, Alaska. U.S.A. Cowan, E.A., et al. [1996,eng] 50-6260
- United States—Alaska—Saint Lawrence Island**
Church building foundation retrofit on Saint Lawrence I. Crowther, G.S., [1996,eng] 50-6130
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Pleistocene paleosol soil development in northwest Alaska. Höfle, C., et al. [1996,eng] 50-6517
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How terrain and road design affect winter maintenance on the Klondike Highway. Tabler, R.D., et al. [1993,eng] 50-5595
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Effect of sedimentation on the advance of a fjord-type glacier. Motyka, R.J., et al. [1995,eng] 50-3736
Relevance of ice thickness measurements to Alaskan glacier variations. Nolan, M., et al. [1995,eng] 50-1875
Taku Glacier, southeast Alaska, U.S.A.: Late Holocene history of a tidewater glacier. Motyka, R.J., et al. [1996,eng] 50-4335
- United States—Alaska—Tana Glacier**
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- United States—Alaska—Tanana**
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- United States—Alaska—Tanana River**
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Oil recovery from Alaskan tar sands using electromagnetic heating. Islam, M.R., et al. [1991,eng] 50-1760
- United States—Alaska—Unalakleet**
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Coal mine spoil instability in discontinuous permafrost. Hardy, A.J., et al. [1996,eng] 50-6166
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- United States—Alaska—Yakutat**
Forested beach ridge chronosequence on Yakutat foreland, Alaska. Shephard, M.E., [1995,eng] 50-3748
- United States—Appalachian Mountains**
Central Appalachian periglacial geomorphology: a field excursion guidebook. Clark, G.M., ed. [1992,eng] 50-3712
- United States—Arizona**
Modeling winter storms over Arizona. Vol.2: microphysics model. Matthews, D.A., [1995,eng] 50-2799
Modeling winter storms over Arizona. Vol.3: local-scale model. Medina, J.G., [1995,eng] 50-2800
Modeling winter storms over Arizona. Final report—Volume I. Matthews, D.A., et al. [1995,eng] 50-2798
- United States—Arizona—Mogollon Rim**
Initial snow chemistry survey of the Mogollon Rim in Arizona. Barbaris, B., et al. [1996,eng] 50-6711
- United States—California—Death Valley**
Sliding rocks at the Racetrack, Death Valley: what makes them move. Reid, J.B., Jr., et al. [1995,eng] 50-1106
- United States—California—Kings River**
Effects of climate change on water supplies in mountainous snowmelt regions. Rango, A., [1995,eng] 50-6617
- United States—California—Lassen Volcanic National Park**
Mountain hemlock expansion in a subalpine ecosystem. Taylor, A.H., [1995,eng] 50-3321
- United States—California—Owens Lake**
Full-glacial shoreline vegetation during the maximum highstand at Owens Lake, California. Koehler, P.A., et al. [1994,eng] 50-1543
- United States—California—Shasta, Mt.**
Avalanche report from Mt. Shasta. Bachman, D., [1996,eng] 50-4759
- United States—California—Sierra Nevada**
Dating of soil development on Sierra Nevada moraines. Bach, A.J., et al. [1996,eng] 50-4630
Effects of acidification on plankton biomass in high mountain lakes. Engle, D., et al. [1995,eng] 50-2149
Lake acidification during mountain snowmelt. Stoddard, J.L., [1995,eng] 50-4076
Radiocarbon dating of glacial moraines in California. Dorn, R.I., [1996,eng] 50-6098
Radiometric observations of supercooled liquid water within a split front over Sierra Nevada. Heggli, M.F., et al. [1985,eng] 50-4972
Snow algae microbiology related to ultraviolet radiation effects. Thomas, W.H., et al. [1995,eng] 50-2814

- Snowmelt induced chemical changes in seven streams in the Sierra Nevada, California. Melack, J.M., et al. [1995,eng] 50-2414
- United States—California—White Mountains**
Ecology of an alpine cushion plant. Owen, W.R., [1995,eng] 50-1540
Rates of heave and surface rotation of periglacial frost boils in the White Mountains, California. Wilkerson, F.D., [1995,eng] 50-3785
- United States—Colorado**
Alternative deicing chemicals research. Woodham, D., [1994,eng] 50-1072
Climatic trends in the Colorado-Big Thompson Project area. U.S. Bureau of Reclamation. Denver Office, Denver, CO. [1994,eng] 50-5007
Colorado storm and avalanches of February 1995. McCarty, D., et al. [1995,eng] 50-1098
Hydrochemical processes during snowmelt in a subalpine watershed, Colorado, USA. Peters, N.E., et al. [1995,eng] 50-2423
Hydrologic pathways in an alpine watershed. Mast, M.A., et al. [1995,eng] 50-2418
Hydrological effects of hypothetical climate change in the East River basin, Colorado, USA. McCabe, G.J., Jr., et al. [1995,eng] 50-740
Nitrogen deposition and release in alpine watersheds, Loch Vale, Colorado, USA. Campbell, D.H., et al. [1995,eng] 50-2416
Niwot Ridge snow fence experiment: biogeochemical response to changes in the seasonal snowpack. Brooks, P.D., et al. [1995,eng] 50-2421
Organic carbon variations in stream waters during snowmelt. Boyer, E.W., et al. [1995,eng] 50-2422
Runoff composition in a bedrock catchment watershed. Clow, D.W., et al. [1995,eng] 50-2415
Snow and avalanche. Annual report 1994-95. Colorado Avalanche Information Center, [1995,eng] 50-4308
Snowpack controls on soil nitrogen dynamics in the Colorado alpine. Brooks, P.D., et al. [1995,eng] 50-2420
Stream flow hydrographic separation during watershed snowmelt. Sueker, J.K., [1995,eng] 50-2419
Surface water chemistry in alpine watersheds. Stottlemeyer, R., et al. [1995,eng] 50-2424
Technique for nowcasting hourly snowfall. Chappell, C.F., et al. [1991,eng] 50-3262
Tree regeneration in Coloradoan forest-tundra ecosystem. Weisberg, P.J., et al. [1995,eng] 50-3295
Weather and climate of a high mountain pass in the Colorado Rockies. Judson, A., [1965,eng] 50-5751
- United States—Colorado—Almagre Mountain**
Climatic significance of bristlecone pine frost-ring records. Brunstein, F.C., [1996,eng] 50-4338
- United States—Colorado—Colorado River**
Effects of snowpack grain size on remote sensing of river basins. Josberger, E.G., et al. [1996,eng] 50-4302
- United States—Colorado—Denver**
Winter surface energy budget in Denver, Colorado. Ruffieux, D., [1995,eng] 50-2152
- United States—Colorado—Durango**
Composition and construction of late Pleistocene end moraines. Durango, Colorado. Johnson, M.D., et al. [1995,eng] 50-1859
- United States—Colorado—Emerald Lake**
A hydrochemical model for seasonally snow-covered alpine watersheds. Wolford, R.A., et al. [1996,eng] 50-4237
- United States—Colorado—Front Range**
Spatial energy budgets in alpine tundra. Greenland, D., [1993,eng] 50-4802
Streamwater quality variations in a Colorado alpine environment. Caine, N., [1995,eng] 50-4189
Supercooled liquid water in Colorado Front Range winter storms. Rasmussen, R.M., et al. [1991,eng] 50-3264
- United States—Colorado—Green Lakes Valley**
Snowpack influences on geomorphic processes in Green Lakes Valley, Colorado Front Range. Caine, N., [1995,eng] 50-1404
- United States—Colorado—Gunnison River**
Climate change, hydrology, and channel morphology of the Gunnison River. Parker, R.S., et al. [1992,eng] 50-3032
- United States—Colorado—Niwot Ridge**
Atmospheric deposition at Niwot Ridge, CO. Rusch, D., et al. [1995,eng] 50-2395
Dry depositional loading of nitrogen to an alpine snowpack. Niwot Ridge, Colorado. Cress, R.G., et al. [1995,eng] 50-2396
- United States—Colorado—Rio Grande**
Effects of climate change on water supplies in mountainous snowmelt regions. Rango, A., [1995,eng] 50-6617
- United States—Colorado—Rocky Mountain National Park**
Tree seedling and krummholz growth in the forest tundra of Rocky Mountain National Park. Weisberg, P.J., et al. [1995,eng] 50-72
- United States—Colorado—Rocky Mountains**
Effects of grazing on alpine vegetation in the Caucasus and the Rockies. Bock, J.H., et al. [1995,eng] 50-73
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- United States—Colorado—Sawatch Range**
Paleoecological study of Pleistocene mountain vegetation patterns. Gregory, K.M., et al. [1996,eng] 50-5081

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Rhythmic sedimentation in Glacial Lake Hitchcock, Massachusetts-Connecticut. Ashley, G.M., [1975,eng] 50-4820
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- United States—Great Lakes**
Still the Great Lakes' best icebreaker. [1995,eng] 50-3039
Two-year simulation of the Great Lakes region with a coupled modeling system. Bates, G.T., et al. [1995,eng] 50-1566
Winter 1994 weather and ice conditions for the Laurentian Great Lakes. Assel, R.A., et al. [1996,eng] 50-3294
- United States—Great Plains**
Snow cover in the Great Plains as an indicator of climate change. Hughes, M.G., [1994,eng] 50-679
Temporal and spatial variations in hail in the upper Great Plains and Midwest. Changnon, S.A., Jr., [1984,eng] 50-4497
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Population dynamics of a Hawaiian alpine rosette plant. Rundel, P.W., et al. [1994,eng] 50-3059
- United States—Idaho**
Hydrological modelling of watershed snowmelt runoff. Bathurst, J.C., et al. [1996,eng] 50-3728
Till provenance studies of Idaho paleoglaciators. Brugger, K.A., [1996,eng] 50-6245
- United States—Illinois**
Pre-Illinoian glacial stratigraphy in north-central Missouri. Rovey, C.W., III, et al. [1996,eng] 50-4585
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Indiana streamlines permitting and ice/snow removal. Pittman, R., [1996,eng] 50-3495
- United States—Maine**
Case study of insulated pavement in Jackman, Maine. Kestler, M.A., et al. [1995,eng] 50-1155
Gould Pond, Maine: late-glacial transitions from marine to upland environments. Anderson, R.S., et al. [1992,eng] 50-2561
Morainial bank ground-line process during coastal Maine deglaciation. Hunter, L.E., et al. [1996,eng] 50-6532
Rate of carbon accumulation in boreal mires. Tolonen, K., et al. [1994,eng] 50-3223
Study of cryoseisms ("frostquakes") in the Sebago Lake region, Maine. Allen, R.P., [1993,eng] 50-5518
- United States—Maine—Portland**
Summary report on the snow disposal study for Portland, Maine. Woodard & Curran Inc., Consulting Engineers, Portland, ME. [1990,eng] 50-1203
- United States—Maryland**
Maryland State Highway Administration tallies record winter. Kasoff, H., [1996,eng] 50-6103
- United States—Massachusetts**
Frost-free record reconstruction for eastern Massachusetts. 1733-1980. Baron, W.R., et al. [1984,eng] 50-4915
Iron(II) in rainwater, snow, and surface seawater from a coastal environment. Zhuang, G.S., et al. [1995,eng] 50-979
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- United States—Michigan**
Ecological classification of Michigan wetland ecosystems. Zogg, G.P., et al. [1996,eng] 50-3297
Estimating soil temperatures and frost in the lake effect snowbelt region, Michigan, USA. Isard, S.A., et al. [1995,eng] 50-1140
Mapping of winter surface conditions at Camp Grayling, Michigan. Haugen, R.K., et al. [1992,eng] 50-738
- United States—Michigan, Lake**
Numerical simulation of land-breeze-induced snowbands along the western shore of Lake Michigan. Ballentine, R.J., [1982,eng] 50-3648
Observational studies and numerical simulations of marine convective boundary layers. Rao, G.S., [1994,eng] 50-473
- United States—Montana**
12,000 year radiocarbon date of deglaciation from the continental divide of northwestern Montana. Carrara, P.E., [1995,eng] 50-3299
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- United States—Montana—Glacier National Park**
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- United States—Montana—Great Falls**
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- United States—Nevada—Ruby Mountains**
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Soil properties beneath canthons and pine stands in the eastern Sierra Nevada. Johnson, D.W., [1995,eng] 50-630
- United States—New Hampshire**
Open graded base to reduce thaw weakening in flexible pavements. Kestler, M.A., [1996,eng] 50-6179
Tuckerman Ravine snowbed. Havens, J.M., [1961,eng] 50-5785
Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al, [1995,eng] 50-3127
- United States—New Mexico**
Reconstruction of 1000-year winter precipitation from tree rings in New Mexico. D'Arrigo, R.D., et al, [1991,eng] 50-5032
- United States—New York**
County improves its snow and ice control program. da Cunha, M., [1996,eng] 50-6101
Ground-based radar for measuring snowfall rate. Houck, R.E., et al, [1995,eng] 50-3109
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- United States—New York—Niagara River**
Ice jamming in upper Niagara River: processes and plan of study. Crissman, R.D., et al, [1995,eng] 50-362
- United States—North Dakota—Missouri River**
Ice jam flooding on the Missouri River near Williston, North Dakota. Wuebben, J.L., et al, [1995,eng] 50-2707
- United States—Ohio—Erie, Lake**
Ice protection for water intakes of the Perry Nuclear Power Plant. Wahanik, R.J., et al, [1976,eng] 50-584
- United States—Pennsylvania**
PennDOT responds to the challenges of January's blizzards and flooding. Chizmar, S., [1996,eng] 50-6102
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- United States—Rocky Mountains**
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- United States—Sierra Nevada**
Climate change and water resources of watersheds in the Sierra Nevada. Pupacko, A., et al, [1992,eng] 50-3031
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- United States—Superior, Lake**
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- United States—Utah**
Snowmelt hydrologic model of the Upper Sheep Creek watershed. Jackson, T.H.R., [1994,eng] 50-701
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- United States—Utah—Bridal Veil**
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- United States—Utah—Tushar Mountains**
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- United States—Vermont**
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New, low-cost ice control structure. Part 2: construction and performance. Lever, J.H., et al, [1996,eng] 50-6159
Nitrate transport in snowmelt in the Green Mountains, northern Vermont. Daly, D.M., [1995,eng] 50-3128
- United States—Virginia**
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- United States—Washington**
Annual net balance of North Cascade glaciers, 1984-94. Pelto, M.S., [1996,eng] 50-4886
Changing drainage patterns within South Cascade Glacier, Washington, USA, 1964-1992. Fountain, A.G., et al, [1995,eng] 50-2431
Comparison of subglacial and extra-glacial weathering. Axtmann, E.V., et al, [1995,eng] 50-2436
Water, ice, and meteorological measurements, South Cascade Glacier, 1994. Krimmel, R.M., [1995,eng] 50-53
- United States—Washington—Findley Lake**
Midge emergence during thaw cycles of a subalpine lake. Sher, T., et al, [1996,eng] 50-4504
- United States—Washington—North Cascade Mountains**
Kulshan caldera: a Quaternary subglacial caldera in the North Cascades, Washington. Hildreth, W., [1996,eng] 50-6547
Relations between atmospheric circulation and glacier mass balance. McCabe, G.J., Jr., et al, [1995,eng] 50-3323
- United States—Washington—Olympic Mountains**
Adaptation of tree seedlings to subalpine meadow soil moisture variations. Kuuluvainen, T., et al, [1996,eng] 50-4337
Tree establishment in subalpine meadows. Woodward, A., et al, [1995,eng] 50-3322
- United States—Washington—Puget Lowland**
Pleistocene glaciomarine isostatic rebound, Puget Lowland, Washington. Dethier, D.P., et al, [1995,eng] 50-1832
- United States—Washington—Rainier, Mount**
Temporal redistribution of subalpine meadow trees. Rochefort, R.M., et al, [1996,eng] 50-4336
- United States—Washington—Saint Helens, Mount**
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- United States—West Virginia**
Prediction of frost penetration beneath West Virginia pavements. Moulton, L.K., [1968,eng] 50-4549
- United States—White River**
Winter low-flow balance of the semiarid White River, Nebraska and South Dakota. Ferrick, M.G., et al, [1995,eng] 50-1074
- United States—Wisconsin**
Geomorphology and dynamics of the Laurentide Ice Sheet in Wisconsin. Ham, N.R., [1994,eng] 50-693
Satellite observation of lake ice as a climate indicator. Wynne, R.H., et al, [1993,eng] 50-2862
- United States—Wyoming**
Alpine glacial history reconstruction in Wyoming and Argentina. Gosse, J.C., [1994,eng] 50-672
Evidence of paleoclimatic snow melt in lacustrine mountain deposits. Norris, R.D., et al, [1996,eng] 50-5082
Flow patterns conducive to Wyoming mountain heavy snow. Darrow, M.A., [1995,eng] 50-6685
Lichens of alpine meadows on the Beartooth Plateau, Montana and Wyoming. U.S.A. Eversman, S., [1995,eng] 50-2815
Quaternary terraces and related deposits in the western Wind River Basin, Wyoming. Jaworski, C., [1993,eng] 50-702
Snow cover distribution on a Wyoming glacier. Elder, K., [1995,eng] 50-2438
Use of sulfur-35 and tritium to study runoff from an alpine glacier, Wind River Range, Wyoming. Michel, R.L., et al, [1995,eng] 50-2437
- United States—Wyoming—Fremont Glacier**
Thickness and ablation measurements of Fremont Glacier, Wyoming. Nafiz, D.L., et al, [1993,eng] 50-4796
- United States—Wyoming—Wind River Mountains**
Moraine dating supports Younger Dryas cooling event. Gosse, J.C., et al, [1995,eng] 50-1255
Soil/weathering rate relations from glacial sediment chemical evolution. Taylor, A., et al, [1995,eng] 50-1806
- United States—Wyoming—Wind River Range**
Little Ice Age evidence from a south-central North American ice core. U.S.A. Nafiz, D.L., et al, [1996,eng] 50-4334
Two-year record of eolian sedimentation in the Wind River Range, Wyoming. U.S.A. Dahms, D.E., et al, [1996,eng] 50-5496
- United States—Wyoming—Yellowstone National Park**
Herb germination ecology in Yellowstone National Park. Romme, W.H., et al, [1995,eng] 50-2816
- Unsteady flow**
Ice streams in Antarctica: transverse instability of gravity driven flow. Minal, M., et al, [1996,eng] 50-3722
Thermal stratification effects near a vertical ice slab in cold water. Kukulka, D.J., et al, [1993,eng] 50-3361
- Upwelling**
Doppler observations of Bering Sea ice edge ocean circulation. Okkonen, S., et al, [1995,eng] 50-1032
Field experiments on uplift force on a steel pipe due to frost heaving. Fukuda, M., et al, [1989,eng] 50-2248
Freezing driven upwelling in antarctic sea ice biological systems. Ackley, S.F., et al, [1996,eng] 50-6032
Impact of glaciation on the groundwater regime of northwest Europe. Boulton, G.S., et al, [1996,eng] 50-5326
Land surface studies and atmospheric effects by satellite microwave radiometry. Aschbacher, J., [1990,eng] 50-6691
Maintaining the thermohaline circulation. Mauritzen, C., et al, [1996,eng] 50-6670
Mixed-phase cloud scheme based on a single prognostic equation. Tremblay, A., et al, [1996,eng] 50-6665
Radiative effects of polar stratospheric clouds. Kinne, S., et al, [1990,eng] 50-5986
Radiative properties of cirrus clouds derived from surface interferometric measurements. Beck, G.H., et al, [1996,eng] 50-6569
- Ural Mountains**
Stability of coenopopulations of rose root stonecrop in the sub-polar Ural. Frolov, I.U.M., et al, [1994,eng] 50-264
- Urban planning**
Chaudiere Island proposed snow dumping facility: an environmental appraisal. Lopez, K., et al, [1981,eng] 50-1200
Current status and prospects of snow countermeasures in Nagasaki New Town. Komine, M., [1988,eng] 50-2286
Economic evaluation of snow removal systems in urban areas. Part 1. Morohashi, K., et al, [1995,eng] 50-995
Economic evaluation of snow-removal systems in urban areas. Part 2. Morohashi, K., et al, [1996,eng] 50-4925
Ice hydraulic investigation for the snow disposal structure, Ottawa River. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1981,eng] 50-1199
Improvement of sidewalk snow removal within urban areas. Takahashi, S., et al, [1992,eng] 50-3138
Indiana streamlines permitting and ice/snow removal. Pitman, R., [1996,eng] 50-3495
Investigation of proposed snow dump facility. Gore & Storr Limited, Ottawa, Ontario, [1983,eng] 50-1197
- Municipal solid waste characterization in a cold remote region. Ogbe, A.A., et al, [1996,eng] 50-6172
Operations management for urban snow removal and disposal. Campbell, J.F., et al, [1995,eng] 50-1107
Relation of traffic to climate and road icing in downtown Sapporo. Matsuzawa, M., et al, [1995,eng] 50-6791
Report on the proposed snow dumping facilities, Ottawa River. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1980,eng] 50-1201
Snow countermeasures on metropolitan expressways. Ishizawa, M., et al, [1988,eng] 50-2282
Snow disposal sites—the Regional Municipality of Ottawa-Carleton experience. Becking, J.L., [1986,eng] 50-1196
Snow disposal study for the designated growth centres. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1990,eng] 50-1153
Snow in the cities—a history of America's urban response. McKelvey, B., [1995,eng] 50-1123
Summary report on the snow disposal study for Portland, Maine. Woodard & Curran Inc., Consulting Engineers, Portland, ME, [1990,eng] 50-1203
Urban snow disasters. Higashiura, M., [1988,eng] 50-2047
Winter road surface conditions of national highways in Sapporo. Takahashi, K., et al, [1995,eng] 50-6793
- Urea**
Compositions containing ammonium salts and urea for melting of snow. Abe, H., et al, [1995,eng] 50-4595
Developments in airport ice control chemicals. Townshend, T., [1995,eng] 50-3119
Urea foam covers for remediation of degraded permafrost. Feklistov, V.N., et al, [1996,eng] 50-6476
- Urethane foam**
See [also]: Cellular plastics
- Utilities**
Cold climate concerns. Part 2. Infrastructure planning and maintenance. Ryan, W.L., [1995,eng] 50-1077
Cold regions utilities monograph. Third edition. Smith, D.W., ed, et al, [1996,eng] 50-6424
Demonstrating brine water wells and toilets for Deering, Alaska. Lundell, R.H., [1996,eng] 50-6153
Design, building and testing of a latent heat thermal energy storage element. Millette, J., et al, [1996,eng] 50-6442
Drinking water quality in small northern communities. Smith, D.W., et al, [1996,eng] 50-6154
Icing test and rework of WECS for use on Lapland's fjells. Böhmke, G., et al, [1992,eng] 50-3635
Priorities and small pumps in cold region water distribution systems. Mauser, M.W., [1995,eng] 50-5667
Using district heating pipes for freeze protection of sewer pipes. Reeve, H.E., et al, [1996,eng] 50-6440
Utilities and systems for the new Amundsen-Scott Station. Theno, S., et al, [1996,eng] 50-6142
Wind turbines in northern climates—Canadian experiences. Brothers, C., [1992,eng] 50-3634
- Uzbekistan**
Alpine base for glacier-regime studies in Uzbekistan. Konov, V.G., [1993,eng] 50-6343
Glacial-hydrological studies of the Syr Darya basin. Kamalov, B.A., [1973,eng] 50-426
- Uzbekistan—Sokh River**
High-altitude distribution of the seasonal snow line in a mountain river basin. Tursunov, U.O., [1991,eng] 50-5
- Vacuum freezing**
Estimation of freeze drying transport coefficients. Lombrana, J.L., et al, [1996,eng] 50-5692
- Valleys**
Geological and geophysical exploration of alpine and peri-alpine glacial valleys. Pugin, A., et al, [1995,eng] 50-3315
Geomorphic effects of the retreat of Jamapa Glacier, Pico de Orizaba Volcano (Mexico). Palacios, D., et al, [1996,eng] 50-5578
Holocene evolution of a stretch of an eastern Italian alpine valley. Friz, C., et al, [1995,eng] 50-6697
Paleoclimatic reconstructions from antarctic volcanic ash deposits. Marchant, D.R., et al, [1996,eng] 50-4233
Periglacial elements in the geological structure and relief of northern Czestochowa. Kobjek, S., [1990,eng] 50-4941
Postglacial development of river valleys in the middle part of the northern slope of Pomerania. Florek, W., [1991,eng] 50-4940
- Quaternary stratigraphy of the buried valleys of the lower Red Deer River, Alberta, Canada. Evans, D.J.A., et al, [1995,eng] 50-1080
Record of Warta processes in the base of the mountain Ner River valley. Turkowska, K., [1993,eng] 50-3667
Relief of the Breinsefjella plain and Wiederfjellet massif in western Sörkapp Land (Spitsbergen). Gebica, P., [1989,eng] 50-2889
Stratigraphy of valley sediments of Polish river drainage basins. Superson, J., [1995,eng] 50-2616
Thermal differentiation in slopes of a small periglacial valley (Bellsund, Spitsbergen). Lanczont, M., et al, [1989,eng] 50-2910
Valley bottoms in the late Quaternary. Schirmer, W., [1995,eng] 50-2748
Wutach gorge in SW Germany: late Würmian (periglacial) downcutting versus Holocene processes. Einsele, G., et al, [1995,eng] 50-2750
- Valves**
Protecting water meters from freezing. Kotry, J., [1992,eng] 50-3559

Vapor

- Self-contained anti-skid device for pneumatic tires. Yadegar, I., [1995,eng] 50-3458
 Tree-clip development in microirrigation allows easy frost and freeze protection. Thayer, S.S., [1995,eng] 50-3076

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See [also]: Water vapor

Vapor barriers

- Bare poles: building design for high latitudes. Strub, H., [1996,eng] 50-4963
 Moisture conditions and control in buildings in Fairbanks, Alaska. Adkins, R., [1996,eng] 50-6138
 Research program for reducing frost heave with geosynthetic capillary barriers. Henry, K.S., et al., [1996,eng] 50-6129
 Thermal and vapor performance of insulated assemblies. Carlson, A.R., [1996,eng] 50-6139
 Use of geosynthetic capillary barriers to reduce moisture migration in soils. Henry, K.S., [1995,eng] 50-1096

Vapor diffusion

- Apparatus for in situ measurement of CO₂ diffusion coefficient of snowpack. Kominami, Y., et al., [1996,jpn] 50-4924
 Atmospheric CO₂ variations inferred from antarctic ice composition. Etheridge, D.M., et al., [1996,eng] 50-3446
 CO₂ flux through a Wyoming seasonal snowpack: diffusional and pressure pumping effects. Massman, W., et al., [1995,eng] 50-2400
 Determining past atmospheric HCl mixing ratios from ice core analyses. Domine, F., et al., [1995,eng] 50-1104
 Diffusion of helium through ice. Davy, J.G., et al., [1970,eng] 50-5748
 Effect of ethanol additives on odor detection of Alaskan gasolines. Zhao, X.H., et al., [1995,eng] 50-3393
 Evolution of factors affecting gas transmissivity of snow in the boreal forest. Hardy, J.P., et al., [1995,eng] 50-2398
 Investigation and repair of a terra cotta dome in a cold climate. Ogile, R., et al., [1995,eng] 50-1978
 Ion-induced nucleation around radon daughters in remote arctic maritime air. Bigg, E.K., [1996,eng] 50-4322
 Martian atmospheric carbon 14 as indicator of atmosphere-regolith gas exchange. Jakosky, B.M., et al., [1996,eng] 50-3009
 Niwot Ridge snow fence experiment: biogeochemical response to changes in the seasonal snowpack. Brooks, P.D., et al., [1995,eng] 50-2421
 Overview of the Arctic Ocean Expedition of 1991 (IAOE-91). Leck, C., et al., [1996,eng] 50-4312
 Ozone deposition in a snow-covered subalpine spruce-fir forest environment. Zeller, K., et al., [1995,eng] 50-2394
 Potential role of peatland dynamics in ice-age initiation. Klinger, L.F., et al., [1996,eng] 50-4587
 Pre-analysis of soil organic compound holding times. Hewitt, A.D., [1996,eng] 50-5961
 Relationship between atmospheric composition and snow composition for HCl and HNO₃. Domine, F., et al., [1995,eng] 50-2392
 Response of soil carbon to climate change. McGuire, A.D., et al., [1995,eng] 50-4866
 Seasonal variability in CO₂ transport through snow in a boreal forest. Winston, G.C., et al., [1995,eng] 50-2399
 Soil-to-snow movement of synthetic organic compounds in natural snowpack. Hogan, A., et al., [1995,eng] 50-2403
 State of SO₂ on Io's surface. Kerton, C.R., et al., [1996,eng] 50-4257
 Surface spectrometry of arctic seasonal atmospheric ozone variations. Pommeroy, J.P., et al., [1988,eng] 50-4636
 Theory of atmospheric ice crystal growth and sublimation. Nelson, J.T., et al., [1996,eng] 50-4351
 Ventilation experiments in a seasonal snow cover. Albert, M.R., et al., [1995,eng] 50-2397
 Water vapor transfer through a hydrophilic film at subzero temperatures. Osceviski, R.J., [1996,eng] 50-4498
 Winter methane dynamics in a temperate peatland. Melloh, R.A., et al., [1996,eng] 50-6052
- Vapor pressure**
 Blowout in Beaufort Sea gas well. [1989,eng] 50-5647
 Differentiation of temperature and water vapor pressure during summer in NW Spitsbergen. Wójcik, G., et al., [1989,pol] 50-2909
 Effects of steam quality on cyclic steam stimulation at Cold Lake, Alberta. Ho, D.W., et al., [1991,eng] 50-1703
 Evaporation rate, free energy, and entropy of amorphous water at 150 K. Speedy, R.J., et al., [1996,eng] 50-5920
 Formation of nitric acid hydrates—a chemical equilibrium approach. Smith, R.H., [1990,eng] 50-4728
 Interaction of peroxyacetic acid with solid H₂O ice. Li, Z.J., et al., [1996,eng] 50-4350
 On the formation of electron depletions at the summer polar mesopause. Klostermeyer, J., [1996,eng] 50-3600
 Pressure dependence of the reaction between ClO and OClO at 226 K. Parr, A.D., et al., [1990,eng] 50-4733
 Reexamination of the formation of exhaust condensation trails by jet aircraft. Hanson, H.M., et al., [1995,eng] 50-1248
 Relationship between snow cover boundary and air temperature. Kislov, A.V., [1994,eng] 50-6093
 Temperature effects on porous solid capillary functions. Grant, S.A., et al., [1996,eng] 50-5965
 The presence of metastable HNO₃/H₂O solid phases in the stratosphere inferred from ER 2 data. Tabazadeh, A., et al., [1996,eng] 50-5254
 Thermodynamic analysis of the influence of electric fields on frost formation. Ma, H.B., et al., [1995,eng] 50-2156

Vapor transfer

- Active layer moisture migration in Alaskan soils. Outcalt, S.I., et al., [1996,eng] 50-4631
 Aircraft measurements of the stable carbon isotopic ratio of atmospheric methane over Siberia. Sugawara, S., et al., [1996,eng] 50-6051
 Arctic Flux Study: a regional view of trace gas release. Weller, G., et al., [1995,eng] 50-3809
 Arctic Ocean dimethyl sulfide seasonal variability. Leck, C., et al., [1996,eng] 50-4313
 Atmospheric carbon emission from North Asian lakes: a factor of global significance. Semiletov, I.P., et al., [1996,eng] 50-5609
 Atmospheric water vapour budget over Greenland. Calanca, P., [1994,eng] 50-4944
 Challenge of West Sak heavy oil: analysis of an innovative approach. Gondouin, M., et al., [1991,eng] 50-1713
 CO₂ exchange in some vascular plants inhabiting the polar Urals. Gerasimenko, T.V., et al., [1996,eng] 50-6757
 Controls on CH₄ flux from an Alaskan boreal wetland. Moosavi, S.C., et al., [1996,eng] 50-6053
 Diel variations of H₂O₂ in Greenland: a discussion of the cause and effect relationship. Bales, R.C., et al., [1995,eng] 50-634
 Ecological controls on peatland methane emissions in discontinuous permafrost. Bubier, J.L., et al., [1995,eng] 50-2803
 Effects of sea ice cover on atmospheric methane over the Sea of Okhotsk. Lammers, S., et al., [1995,eng] 50-1147
 Enrichment of CO over N₂ by their trapping in amorphous ice and implications to comet P/Halley. Notesco, G., et al., [1996,eng] 50-5834
 Estimation of freeze drying transport coefficients. Lombardi, J.L., et al., [1996,eng] 50-5692
 Evaluation of respiration of Russian soils. Kudeiarov, V.N., et al., [1996,eng] 50-5066
 Growth dynamics and population development in an alpine grassland under elevated CO₂. Schappi, B., [1996,eng] 50-5779
 Growth responses of an alpine grassland to elevated CO₂. Schappi, B., et al., [1996,eng] 50-5771
 Impact of global warming on tundra and forest ecosystems. Pöchl, M., et al., [1995,eng] 50-4865
 Interaction of arctic fogs with aerosols. Nilsson, E.D., et al., [1996,eng] 50-4318
 Measurements of upward turbulent ozone fluxes above a subalpine spruce-fir forest. Zeller, K., et al., [1996,eng] 50-5289
 Methane flux along a Siberian tundra transect. Christensen, T.R., et al., [1995,eng] 50-1334
 Methanogenesis at low temperatures by microflora of tundra wetland soil. Kotsiurbenko, O.R., et al., [1996,eng] 50-5156
 Migration of water vapor across the boundary between snow cover and frozen soil. Golubev, V.N., et al., [1995,rus] 50-4111
 Nitrous oxide emission from an agricultural soil subjected to different freeze-thaw cycles. Chen, Y., et al., [1995,eng] 50-5687
 Ozone deposition in a snow-covered subalpine spruce-fir forest environment. Zeller, K., et al., [1995,eng] 50-2394
 Periodic variations in air-water gas exchange of Arctic Ocean insecticide pollutants. Jantunen, L.M., et al., [1995,eng] 50-1862
 Peroxide concentrations in the Dome Summit South ice core, Law Dome, Antarctica. van Ommen, T.D., et al., [1996,eng] 50-6327
 Relations between weather systems affecting Tibetan Plateau and oxygen isotope in precipitation. Zhang, X.P., et al., [1995,chi] 50-5619
 Results from the 1994 Boreal Ecosystem-Atmosphere Study (BOREAS). Sellers, P., et al., [1995,eng] 50-4574
 Sensor mapping of arctic wetland distribution. Morrissey, L.A., et al., [1996,eng] 50-4764
 Siberian tundra CO₂ flux as a source of seasonal CO₂ variations. Zimov, S.A., et al., [1996,eng] 50-5868
 Water vapor transfer through a hydrophilic film at subzero temperatures. Osceviski, R.J., [1996,eng] 50-4498
 Winter-summer differences of carbon dioxide and oxygen in the Weddell Sea surface layer. Hoppema, M., et al., [1995,eng] 50-3006

Variations

- Dynamics of David Glacier and its floating Drygalski Ice Tongue. Frezzotti, M., [1994,ita] 50-2824
 Effects of individual ridging events on the ice thickness distribution in the arctic ice pack. Hopkins, M.A., [1996,eng] 50-3828
 Evolving front of the Ross Ice Shelf. Keys, H.J.R., et al., [1994,eng] 50-2693
 Ice shelf structure at Maudheim Station. Schytt, V., [1958,eng] 50-6420
 Record of Holocene paleoclimate changes from glacial marine sediments in Lallemand Fjord. Shevenell, A.E., [1996,eng] 50-4074
 Reports on the Glaciological Survey of 1993. Armando, E., et al., [1994,ita] 50-3767
 Seismic survey of the Ross Sea continental shelf. Shipp, S.S., et al., [1994,eng] 50-2694
 See [also]: Diurnal variations; Glacier oscillation; Periodic variations; Seasonal variations; Temperature variations

Vegetation

- Vegetation cover in technogenic regions of Northern Europe. Grudev, B.I., et al., [1994,rus] 50-2623

Vegetation patterns

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- Vegetation factors**
 Arctic Flux Study: a regional view of trace gas release. Weller, G., et al., [1995,eng] 50-3809
 Boreal forest and the polar front. Pielke, R.A., et al., [1995,eng] 50-2847
 Canadian development and use of snow cover information from passive microwave satellite data. Goodison, B.E., et al., [1995,eng] 50-4177
 Characteristics of the seasonal freezing of rocks in the Tien Shan. Severskii, E.V., [1996,rus] 50-6368
 Effects of contour-line strip-cutting of trees on snowmelt runoff. Shimizu, T., et al., [1996,jpn] 50-2860
 Forest fire of May 6, 1987, in the Greater Khingan Range. Lou, Y.H., [1991,chi] 50-5853
 Growth response of mosses to simulated subarctic environmental change. Potter, J.A., et al., [1995,eng] 50-3860
 High-resolution ammonium ice core record covering a complete glacial-interglacial cycle. Fuhrer, K., et al., [1996,eng] 50-3448
 Management of winter soil temperatures to control streambank erosion. Bohn, C., [1989,eng] 50-2464
 Mapping snow cover during the BOREAS winter experiment. Hall, D.K., et al., [1995,eng] 50-3105
 Nitrogen fixation in arctic vegetation and soils from Svalbard, Norway. Solheim, B., et al., [1996,eng] 50-4007
 Paleoenvironmental implications of modern periglacial eolian deposits. Dijkman, J.W.A., et al., [1991,eng] 50-5172
 Pedogenesis and vegetation in desert areas of Inner Mongolia. Hata, T., [1991,jpn] 50-1441
 Plant effects on arctic ecosystem biogeochemical processes. Hobbie, S.E., [1995,eng] 50-3901
 Radiative characteristics in forest during snowmelt season. Nakabayashi, H., et al., [1996,jpn] 50-4936
 Shortwave reflectance properties of arctic tundra landscapes. Hope, A.S., et al., [1996,eng] 50-4845
 Snow gliding measurements in subalpine forests and on alpine pastures. Höller, P., [1995,eng] 50-4673
 Snow mass in boreal forests derived from a modified passive microwave algorithm. Foster, J.L., et al., [1995,eng] 50-3718
 Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al., [1995,eng] 50-2461
 Snow-induced thermal variations around a single conifer tree. Hardy, J.P., et al., [1995,eng] 50-3129
 Soil development on a glacier foreland, Kerguelen Is. Frenot, Y., et al., [1995,eng] 50-71
 Solifluction in the Arctic and subarctic during the Holocene. Van Vliet-Lanoë, B., [1993,eng] 50-844
 Solifluction in the Swedish mountains. Ulfstedt, A.C., [1993,eng] 50-840
 Spatial energy budgets in alpine tundra. Greenland, D., [1993,eng] 50-4802
 Surface water chemistry in alpine watersheds. Stottmeyer, R., et al., [1995,eng] 50-2424
 Test of variant soil moisture conditions on the Canadian Global Forecast Model. Delage, Y., et al., [1995,eng] 50-1528
 Utility of imaging spectrometry for lithologic mapping in Greenland. Rivard, B., et al., [1992,eng] 50-1651
 Validation of climate model for snow cover variations. Douville, H., et al., [1995,eng] 50-2735
 Vegetation cover and moisture effects on solifluction in Spitsbergen. Schmitt, E., [1994,ger] 50-1591
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 6 ka BP reconstruction for Newfoundland from pollen records. Macpherson, J.B., [1995,eng] 50-1459
 Additions and range extensions to the vascular plant flora of the Northwest Territories, Canada. Cody, W.J., [1996,eng] 50-6342
 Afforestation control of disastrous snow drifting on rugged terrain in Xinjiang. Hu, R.J., et al., [1994,eng] 50-4000
 Afforestation of larch in autumn. Wang, T.X., et al., [1991,chi] 50-5847
 Alaskan Paleogene climates as inferred from the CLAMP database. Wolfe, J.A., [1994,eng] 50-908
 Alaskan tundra seed response to fertilizer treatment. Shaver, G.R., et al., [1995,eng] 50-1469
 Alpine bryophyte communities. Geissler, P., [1982,eng] 50-5413
 Alpine plant diversity: a global survey and functional interpretations. Körner, C., [1995,eng] 50-3892
 Alpine vascular flora of the Tushar Mountains, Utah. Tave, A.C., [1995,eng] 50-1541
 Analyzing the stability of soil-vegetation cover under mechanical forces. Zvereva, T.S., [1994,rus] 50-273
 Applications of freshwater diatoms to geographical research. Moser, K.A., et al., [1996,eng] 50-5013
 Approaches to reconstructing the climate of the steppe-tundra biome. Barry, R.G., [1982,eng] 50-3378
 Arctic and alpine biodiversity: patterns, causes and ecosystem consequences. [1995,eng] 50-3888
 Arctic terrestrial ecosystems and environmental change. Callaghan, T.V., et al., [1995,eng] 50-5232
 Arctic tundra biodiversity: a temporal perspective from Late Quaternary pollen records. Brubaker, L.B., et al., [1995,eng] 50-3894
 Arctic vegetation types as response predictors to global change. Chapin, F.S., III, et al., [1996,eng] 50-6557

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- Arcto-alpine and boreal elements in the high altitude flora of north west Himalaya. Gupta, R.K., [1994,eng] 50-5417
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- Assessing and responding to the effects of climate change on forest ecosystems. Spillhouse, D.L., [1996,eng] 50-4068
- Assessment on the diversity and status of the alpine plants of Indian Himalaya. Samant, S.S., [1994,eng] 50-5424
- Atmospheric deposition effects on foliar injury and foliar leaching in red spruce. Schier, G.A., et al., [1992,eng] 50-4056
- Biodiversity and climate in the coastal temperate rainforests of North America. Alaback, P.B., [1996,eng] 50-4063
- Biodiversity of Canadian forests, with particular reference to the west coast forests. Boyle, T.J.B., [1996,eng] 50-4071
- Biomass diversity in arctic and alpine ecosystems. Pastor, J., [1995,eng] 50-3904
- Biomass, primary production, and nutrient dynamics in a Himalayan forest. Rawat, Y.S., et al., [1994,eng] 50-5435
- Biostratigraphic evidence of an Icelandic paleoclimatic oscillation. Rundgren, M., [1995,eng] 50-2017
- British Columbia vegetation and climate history with focus on 6 ka BP. Hebda, R.J., [1995,eng] 50-1454
- Bryophyte vegetation in polar regions. Longton, R.E., [1982,eng] 50-5412
- Calibration of radiocarbon ages and the interpretation of paleoenvironmental records. Bartlein, P.J., et al., [1995,eng] 50-2018
- Causes and consequences of plant functional diversity in arctic ecosystems. Chapin, F.S., III, et al., [1995,eng] 50-3902
- Causes of arctic plant diversity: origin and evolution. Murray, D.F., [1995,eng] 50-3890
- Cenozoic plants and climates of the Arctic. Boulter, M.C., ed, et al., [1994,eng] 50-892
- Characterization of eastern U.S. spruce-fir soils. Fernandez, J.J., [1992,eng] 50-4051
- Chemistry of artificial snow and its influence on the germination of mountain flora. Jones, H.G., et al., [1995,eng] 50-2428
- Collected papers on forest management in the cold temperate zone. Lou, Y.H., ed, et al., [1991,chi] 50-5839
- Comparison of tundra-steppe development in Beringia. Gierman, R.E., et al., [1982,eng] 50-3371
- Condition and recent trends in high-elevation red spruce populations. Peart, D.R., et al., [1992,eng] 50-4053
- Conifer relicts or paleoclimatic indicators. Mai, D.H., [1994,eng] 50-906
- Connecting links between the Arctic Palaeogene and European Tertiary floras. Kváček, Z., [1994,eng] 50-910
- Contributions to research on Tibet. Pörtge, K.H., ed, et al., [1994,ger] 50-4774
- Controlling the density of natural young growth stands of larch. Zhu, L.Y., et al., [1991,chi] 50-5848
- Dendroecology of red spruce decline. Cook, E.R., et al., [1992,eng] 50-4054
- Determination of alpine treeline variations from soil charcoal sediments. Carcaillet, C., et al., [1996,eng] 50-4746
- Developmental conditions of the Farnham bog, Québec. Lavoie, M., et al., [1995,fre] 50-4885
- Diatom, chrysophyte and protozoan distributions along a latitudinal transect in Fennoscandia. Pienitz, R., et al., [1995,eng] 50-4741
- Discovery of *Quercus semicarpifolia* fossils at Mount Xixia Bangma. Xu, R., [1982,chi] 50-6608
- Distribution of the high arctic grass, *Phippsia algida*. Grulke, N.E., [1995,eng] 50-78
- Drought and salt resistant plants in arid regions of China. Omasa, K., et al., [1991,jpn] 50-1442
- Dynamics of montane treelines. Slatyer, R.O., et al., [1992,eng] 50-4072
- Early Holocene land floras and faunas from Edgeøya, eastern Svalbard. Bennike, O., et al., [1995,eng] 50-4717
- Early Tertiary vegetation and paleoclimatology of arctic Canada. Basinger, J.F., et al., [1994,eng] 50-905
- East Beringia during Late Wisconsin time: a review of the biotic evidence. Matthews, J.V., Jr., [1982,eng] 50-3374
- Ecological classification of Michigan wetland ecosystems. Zogg, G.P., et al., [1996,eng] 50-3297
- Ecological study in an alpine pasture of Bhagirathi Valley, Garhwal Himalaya. Rajwar, G.S., et al., [1994,eng] 50-5429
- Ecology and conservation management of cool temperate rain-forest in Tasmania. Brown, M.J., et al., [1996,eng] 50-4069
- Ecology and conservation of alpine meadows in central Himalaya. India. Ram, J., et al., [1994,eng] 50-5418
- Ecology and decline of red spruce in the eastern United States. Eagar, C., et al., [1992,eng] 50-4049
- Ecosystem consequences of microbial diversity and community structure. Schimel, J.P., [1995,eng] 50-3903
- Effects of air pollution on carbon allocation in red spruce. McLaughlin, S.B., et al., [1992,eng] 50-4058
- Effects of climate change on alpine plant diversity and distribution. Guisan, A., et al., [1995,eng] 50-1016
- Effects of climate change on plant diversity and distribution. Holten, J.L., [1995,eng] 50-1006
- Effects of grazing on alpine vegetation in the Caucasus and the Rockies. Bock, J.H., et al., [1995,eng] 50-73
- Effects of mammals on ecosystem change at the Pleistocene-Holocene boundary. Zimov, S.A., et al., [1995,eng] 50-3895
- Effects of understory alder on forest soil fertility. Wurtz, T.L., [1995,eng] 50-1090
- Effects of vehicle tracks on arctic tundra. Kevan, P.G., et al., [1995,eng] 50-962
- Environmental degradation in the northeastern Qinghai-Xizang Plateau. Zheng, Y.C., [1994,eng] 50-4786
- Enzymatic and morphological variations in arctic grasses. Aiken, S.G., et al., [1995,eng] 50-1068
- Estimate of the early Tertiary paleoclimate of the southern Arctic. Tiffney, B.H., [1994,eng] 50-911
- Experiments on afforestation by aerial seeding in the cold temperate zone. Wang, T.X., et al., [1991,chi] 50-5846
- Floristic changes in the areas surrounding the Paratethys during Neogene time. Kovar-Eder, J., et al., [1994,eng] 50-915
- Fluvial sediment transfer in the Central Alps. Höfner, T., [1993,ger] 50-3335
- Forest changes in the Great Lakes region at 5-7 ka BP. Anderson, T.W., [1995,eng] 50-1456
- Forest dynamics and disturbance in the temperate rainforests of the Americas. Veblen, T.T., et al., [1996,eng] 50-4065
- Forest resources in Xinjiang. Xinjiang Resources Development Comprehensive Survey Team of the Chinese Academy of Sciences (Zhongguo kexue yuan Xinjiang ziyuan kaifa zonghe kaoshadi), [1989,chi] 50-5823
- Forest resources of Qinghai. Sun, X.R., ed, et al., [1988,chi] 50-5822
- Forested beach ridge chronosequence on Yakutat foreland, Alaska. Shephard, M.E., [1995,eng] 50-3748
- Fossil flora of the Palaeogene climatic optimum in north eastern Asia. Budantsev, L.I.U., [1994,eng] 50-912
- Fossil plants as paleoenvironmental indicators. Chaloner, W.G., [1994,eng] 50-894
- Frozen ground landscapes of Yakutia: explanatory notes to a map. Fedorov, A.N., et al., [1989,rus] 50-5005
- Full-glacial shoreline vegetation during the maximum highstand at Owens Lake, California. Koehler, P.A., et al., [1994,eng] 50-1543
- Geobotanical maps as an aid in assessing surface impacts. Everett, K.R., et al., [1994,eng] 50-304
- Grassland ecosystems in eastern Inner Mongolia. Nemoto, M., [1991,jpn] 50-1440
- Growth response of mosses to simulated subarctic environmental change. Potter, J.A., et al., [1995,eng] 50-3860
- Habitats and forest types in the mountains of southeastern Xizang. Xu, F.X., [1992,chi] 50-1484
- Herb germination ecology in Yellowstone National Park. Romme, W.H., et al., [1995,eng] 50-2816
- High altitude (above timber-line) bryoflora of Kumaun Himalaya. Tewari, S.D., et al., [1994,eng] 50-5431
- High altitude flora of western Himalaya: peculiarities and conservation. Aswal, B.S., [1994,eng] 50-5421
- High altitude forests with special reference to timber line in Kumaun, central Himalaya. Rawal, R.S., et al., [1994,eng] 50-5434
- High altitudes of the Himalaya (biogeography, ecology & conservation). Pangtey, Y.P.S., ed, et al., [1994,eng] 50-5415
- High-latitude rainforests and associated ecosystems of the west coast of the Americas. Lawford, R.G., ed, et al., [1996,eng] 50-4060
- History of the exploration of the vascular flora of Greenland. Pringle, J.S., [1995,eng] 50-3413
- History of the steppe-tundra concept. Hibbert, D., [1982,eng] 50-3375
- Holocene climatic, vegetation and pollen data of Siberia adjacent to the Laptev Sea. Naidina, O.D., [1995,eng] 50-2091
- Holocene environmental changes in a Tibetan lake basin, pt.2. Van Campo, E., et al., [1996,eng] 50-5091
- Holocene vegetation history of the eastern Qinghai-Xizang Plateau. Frenzel, B., [1994,ger] 50-4778
- How unique is primary plant succession at Glacier Bay. Walker, L.R., [1995,eng] 50-3749
- Hydrological controls on ecosystem gas exchange in an arctic landscape. Ostendorf, B., et al., [1996,eng] 50-4855
- Ice age terrestrial carbon changes revisited. Crowley, T.J., [1995,eng] 50-1148
- Identification of fossil plant fragments in glaciers. Lindsag, A., et al., [1995,swe] 50-1470
- Impact of global warming on tundra and forest ecosystems. Plösch, M., et al., [1995,eng] 50-4865
- Impacts of increased winter snow cover on upland tundra vegetation: a case example. Scott, P.A., et al., [1995,eng] 50-3848
- Implications for changes in arctic plant biodiversity from environmental manipulation experiments. Callaghan, T.V., et al., [1995,eng] 50-3897
- Implications of patch dynamics for forested ecosystems in the Pacific Northwest. Bradshaw, G.A., et al., [1996,eng] 50-4067
- Increased assimilation of CO₂ by northern land plants. Keeling, C.D., et al., [1996,eng] 50-5524
- Individual-based model of alpine plant distributions. Humphries, H.C., et al., [1996,eng] 50-3151
- Introduction of *Larix olgensis* into the Greater Khingan Range. Liu, X.T., et al., [1991,chi] 50-5850
- Introduction to Fennoscandian mountains. Holten, J.L., [1995,eng] 50-1004
- Introduction to the Alps. Aeschmann, D., et al., [1995,eng] 50-1010
- Introduction to tropical alpine vegetation. Smith, A.P., [1994,eng] 50-3044
- Invasion of arcto-tertiary elements in the Palaeogene of central Europe. Walther, H., [1994,eng] 50-909
- Investigation of the surface condition in Taklimakan Desert. Tsuchiya, K., et al., [1991,jpn] 50-1426
- Japan-China Joint Study on Desertification. Apr. 1990-Mar. 1991. Japan. Science and Technology Agency. Research and Development Bureau (Kagaku gijyutsu Kenkyu kaihatshoku-oku), [1991,jpn] 50-1421
- Ladakh: an update on natural resources. Dhar, U., et al., [1994,eng] 50-5423
- Lake surface pollen sediments across the Siberian tree line. Clayden, S.L., et al., [1996,eng] 50-6746
- Landscape function and disturbance in arctic tundra. Reynolds, J.F., ed, et al., [1996,eng] 50-4838
- Late Cretaceous arctic platanoids and high latitude climate. Herman, A.B., [1994,eng] 50-903
- Late Pleistocene vegetation of eastern Beringia: pollen analysis of dated alluvium. Schweger, C.E., [1982,eng] 50-3373
- Late Quaternary environmental history of Bátorliget, N.E. Hungary. Willis, K.J., et al., [1995,eng] 50-2165
- Late Quaternary vegetation variations in western Beringia. Anderson, P.M., et al., [1996,eng] 50-4341
- Late-glacial and early Holocene vegetation of Snowdonia. Ince, J., [1996,eng] 50-4254
- Lichens and rocks: a review. Easton, R.M., [1994,eng] 50-1252
- Lichens of alpine meadows on the Beartooth Plateau, Montana and Wyoming. U.S.A. Eversman, S., [1995,eng] 50-2815
- Mapping of land use in the Taklimakan Desert. Sugihara, S., [1991,jpn] 50-1427
- Meadow ecology in the polar Urals, Russia. Gorchakovskii, P.L., et al., [1996,eng] 50-5482
- Meteor impact and the Cretaceous-Tertiary transition in arctic plant fossils. Spicer, R.A., et al., [1994,eng] 50-904
- Methodology of loess palynology. Zelikson, E.M., [1995,eng] 50-1049
- Micro-scale patterns of modern pollen deposition within three alpine plant communities. Pardoe, H.S., [1996,eng] 50-4253
- Migrations and evolution: computerised maps from computerised data. Brown, S.M., [1994,eng] 50-914
- Minimum area and cover-abundance scales as applied to polar desert vegetation. Lévêque, E., [1996,eng] 50-5489
- Modeling forest succession at Glacier Bay. Weishampel, J.F., et al., [1995,eng] 50-3744
- Mountain hemlock expansion in a subalpine ecosystem. Taylor, A.H., [1995,eng] 50-3321
- Mycorrhizal diversity in arctic and alpine tundra: an open question. Gardes, M., et al., [1996,eng] 50-6550
- Myth of the classic hydroecore model of bog succession. Klingner, L.F., [1996,eng] 50-4331
- Natural regeneration in cut forests of the Greater Khingan Range. Zhou, W.Q., [1991,chi] 50-5843
- Natural vegetation complexes of the Northern Dvina River floodplain. Vekhov, N.V., [1995,eng] 50-4699
- Nilssoniocladus* in the Cretaceous Arctic: new species and biological insights. Spicer, R.A., et al., [1996,eng] 50-6541
- Nitrogen fixers in early primary succession at Glacier Bay. Kohls, S.J., et al., [1995,eng] 50-3747
- Numerical analysis of vegetation cover structure and anthropogenic characteristics of deposits. Gritsan, O.E., et al., [1990,rus] 50-1616
- On the connexion of vegetation dynamics with climatic changes in High Asia. Miehe, G., [1996,eng] 50-5089
- Origin and evolution of the mountain flora in Middle Asia and neighbouring mountain regions. Agakhanian, O.E., et al., [1995,eng] 50-3893
- Overview of the reproductive biology of *Espeletia* (Asteraceae) in the Venezuelan Andes. Berry, P.E., et al., [1994,eng] 50-3056
- Palaeogene flora of Spitsbergen: implications for arcticotertiary climatostratigraphy. Masum, S.B., [1994,eng] 50-907
- Paleobotany and cladistics and cladistics in paleobotany: enlightenment and uncertainty. Nixon, K.C., [1996,eng] 50-4001
- Paleoecological implications of Patagonian Quaternary pollen diagrams. Heusser, C.J., [1995,eng] 50-2164
- Paleoecological record of 6 ka BP climate in the Canadian prairie provinces. Vance, R.E., et al., [1995,eng] 50-1455
- Paleoecological study of forest lines in southern Sweden. Björkman, L., [1995,eng] 50-6080
- Paleoecological study of Pleistocene mountain vegetation patterns. Gregory, K.M., et al., [1996,eng] 50-5081
- Paleoecology of arctic lake sediment macrofossils. Birks, H.H., [1991,eng] 50-3305
- Paleoecology of Beringia. Wenner-Gren Foundation for Anthropological Research Symposium, 81st, Burg Wartenstein, Austria, June 8-17, 1979, [1982,eng] 50-3369
- Paleoecology of Finnish lacustrine deposits. Sarmaja-Korjonen, K., [1995,eng] 50-4738
- Paleoecology of Swedish bogs. Segerström, U., et al., [1996,eng] 50-4373
- Paleorecords of plant biodiversity in the Alps. Ammann, B., [1995,eng] 50-3896
- Paleovegetation and paleoclimatic changes in the Yukon at 6 ka BP. Cwynar, L.C., et al., [1995,eng] 50-1451
- Patterns and causes of arctic plant community diversity. Walker, M.D., [1995,eng] 50-3889
- Patterns and causes of genetic diversity in arctic plants. McGraw, J.B., [1995,eng] 50-3891
- Patterns and current changes in alpine plant diversity. Grabherr, G., et al., [1995,eng] 50-3898
- Patterns of early lake ontogeny in Glacier Bay as inferred from diatom assemblages. Fritz, S.C., et al., [1995,eng] 50-3750

Vehicle wheels

Velocity

- Patterns, cause, changes and consequences on biodiversity in arctic and alpine ecosystems. Chapin, F.S., III, et al. [1995.eng] 50-3907
- Peat bog paleoclimatology and ecology adjoining an Italian glacier. Burga, C.A., [1995.fre] 50-862
- Permafrost soil thawing after forest fires. Swanson, D.K., [1996.eng] 50-5497
- Phytogeographic relationships in the cool temperate rainforests of Chile. Arroyo, M.T.K., et al. [1996.eng] 50-4064
- Pine tree distribution in the permafrost zone of the Greater Khingan Range. Lu, G.W., [1989.chi] 50-1346
- Plant communities and desertification in Xinjiang Province. Tanimoto, T., et al. [1991.jpn] 50-1439
- Plant communities in alpine habitat with special reference to Garhwal Himalaya. Rawat, D.S., et al. [1994.eng] 50-5420
- Plant communities of the Bol'soj Civyryk River Valley, Barguzinskij Range, East Siberia. Chytrý, M., et al. [1995.eng] 50-4950
- Plant ecology during desertification of an arctic salt marsh. Srivastava, D.S., et al. [1996.eng] 50-4523
- Plant ecology of the Greater Khingan Range permafrost zone. Yang, K.C., [1989.chi] 50-1347
- Plant form and function in alpine New Guinea. Hnatuk, R.J., [1994.eng] 50-3060
- Plant functional diversity and resource control of primary production in Alaskan arctic tundras. Shaver, G.R., [1995.eng] 50-3900
- Plant-vertebrate herbivore interface in arctic ecosystems. Jefferies, R.L., et al. [1995.eng] 50-3905
- Pleistocene treeline fluctuation in the Swiss Alps. Tinner, W., et al. [1996.eng] 50-5487
- Plio-Pleistocene stratigraphy and paleobotany of the Kap København Formation. Bennike, O., [1990.eng] 50-5170
- Pollen assemblages from small Canadian arctic lakes. Gajewski, K., [1995.eng] 50-966
- Pollen content of Pleistocene deposits in the St. Lawrence Estuary. Clet, M., et al. [1995.fre] 50-4884
- Population biology of Mount Kenya lobelias. Young, T.P., [1994.eng] 50-3057
- Population biology of *Senecio keniodendron* (Asteraceae) and Afroalpine giant rosette plant. Smith, A.P., et al. [1994.eng] 50-3058
- Population dynamics of a Hawaiian alpine rosette plant. Rundel, P.W., et al. [1994.eng] 50-3059
- Potential ecological impacts of climate change in the Alps and Pennoscandian mountains. Guisan, A., ed. et al. [1995.eng] 50-1002
- Preliminary habitat suitability index model for Himalayan musk deer. Rawat, G.S., [1994.eng] 50-5430
- Preliminary study on the growth rate of major forest communities in the Greater Khingan Range. Gu, Y.C., [1991.chi] 50-5851
- Primary succession and future vegetation patterns at Glacier Bay. Chapin, F.S., III, et al. [1995.eng] 50-3743
- Problems of natural reforestation of Dahurian larch (*Larix gmelinii*). Lou, Y.H., [1991.chi] 50-5842
- Proceedings. Glacier Bay Science Symposium, 3rd, Glacier Bay National Park and Preserve, Gustavus, AK, Sep. 15-18, 1993. [1995.eng] 50-3730
- Protected areas and conservation of rare endemic plants in the Himalaya. Rawat, G.S., [1994.eng] 50-5422
- Protection of relic associations on arctic islands and the Chukotskiy tundra. Irtsev, B.A., [1991.rus] 50-1307
- Protection of the vegetation cover in the Far North: problems and prospects. Druzhinina, O.A., et al. [1990.rus] 50-92
- Qualitative successional models in Glacier Bay. Sharman, L.C., et al. [1995.eng] 50-3753
- Rangelands of Xizang (Tibet). Mou, X.D., et al. [1992.chi] 50-2296
- Regeneration in cut natural stands of Dahurian larch. Tu, C.H., et al. [1991.chi] 50-5844
- Relics of the xerophyte vegetation of Beringia in northeastern Asia. Irtsev, B.A., [1982.eng] 50-3376
- Research on the natural resources and environment of the Ordos Plateau in Inner Mongolia. Li, B., ed. et al. [1990.chi] 50-2011
- Resource ecology for soil conservation in the cold deserts of the Himalaya. Gupta, R.K., [1994.eng] 50-5426
- Response of alpine vegetation canopy to experimental wind barrier. Smith, B., et al. [1996.eng] 50-3786
- Results from the 1994 Boreal Ecosystem-Atmosphere Study (BOREAS). Sellers, P., et al. [1995.eng] 50-4574
- Revegetation of shrub tundra in disturbed soils. Harper, K.A., et al. [1996.eng] 50-5490
- Review of Late Cretaceous floras and climates of arctic Russia. Herman, A.B., [1994.eng] 50-902
- Review of working groups on paleoclimate reconstruction from extinct plant data. Hubbard, R.N.L.B., ed. [1994.eng] 50-918
- Road-related disturbances in an arctic watershed. Leadley, P.W., et al. [1996.eng] 50-4856
- SAR interferometric signatures of forest. Wegmüller, U., et al. [1995.eng] 50-981
- Satellite imagery for soil conservation in the loess plateau. Wang, C.Y., ed. et al. [1990.chi] 50-4165
- Scaling of input data for macroscale hydrologic modeling. Kite, G.W., [1995.eng] 50-2544
- Seasonal radar backscatter variation from boreal forests. Pulliainen, J.T., et al. [1996.eng] 50-4765
- Seed rain, seedling establishment and clonal growth strategies on a glacier foreland. Stöcklin, J., et al. [1996.eng] 50-5295
- Sharp and gradual mountain timberlines as a result of species interaction. Armand, A.D., [1992.eng] 50-4073
- Shortwave reflectance properties of arctic tundra landscapes. Hope, A.S., et al. [1996.eng] 50-4845
- Shrub ecology in an arctic landscape. Elvebakk, A., et al. [1995.eng] 50-6070
- Ski slope vegetation in central Honshu, Japan. Tsuyuzaki, S., [1995.eng] 50-1861
- Snow-vegetation relations in the forest tundra of New Quebec. Hudson Bay. Payette, S., et al. [1973.fre] 50-2852
- Soil degradation in the steppes of northern Mongolia. Opp, C., et al. [1993.eng] 50-1680
- Soil development on a glacier foreland, Kerguelen Is. Frenot, Y., et al. [1995.eng] 50-71
- Soil-mediated effects of atmospheric deposition on eastern U.S. spruce-fir forests. Johnson, D.W., et al. [1992.eng] 50-4055
- Soils of Xizang (Tibet). Gao, Y.X., et al. [1985.chi] 50-2297
- Solifluction in the Swedish mountains. Ulfstedt, A.C., [1993.eng] 50-840
- Some early Paleogene species from western Kamchatka. Lavrenko, O.D., et al. [1994.eng] 50-913
- Some late Pliocene and early Pleistocene pollen profiles from Poland. Stuchlik, L., [1994.eng] 50-916
- Spaced cutting in natural larch stands. Liu, X.T., et al. [1991.chi] 50-5849
- Spatial energy budgets in alpine tundra. Greenland. D., [1993.eng] 50-4802
- Spatial explicit modeling of arctic tundra landscapes. Ostendorf, B., [1994.eng] 50-698
- Species interactions during primary succession at Glacier Bay. Fastie, C.L., [1995.eng] 50-3745
- Spruce succession, disturbance, and geomorphology on the Tanana River floodplain, Alaska. Mann, D.H., et al. [1995.eng] 50-2159
- Spruce-fir forests of eastern North America. White, P.S., et al. [1992.eng] 50-4050
- Stable isotopic investigation of nitrogen dynamics at Glacier Bay, Alaska. Hobbie, E.A., et al. [1995.eng] 50-3746
- Structure and dynamics of the plant cover of flat hummocky Siberian bogs. Kirpotin, S.N., et al. [1995.rus] 50-5674
- Study on artificial acceleration of natural regeneration. Lou, Y.H., [1991.chi] 50-5845
- Succession in the Hudson Bay lowland, northern Ontario. Canada. Klinger, L.F., et al. [1996.eng] 50-5491
- Survey of fungal plant diseases in a part of high altitudes of central Himalaya. Bisht, G.S., et al. [1994.eng] 50-5432
- Sustenance of central Himalayan vegetational wealth at the brink of depletion. Negi, K.S., et al. [1994.eng] 50-5425
- Synopsis of Alaska wetland vegetation. Batten, A.R., [1987.eng] 50-3912
- Synthesis and conclusions from studies of red spruce decline. Johnson, A.H., et al. [1992.eng] 50-4059
- Taymyr Peninsula vegetation response to climatic changes. Koshkarova, V.L., [1995.eng] 50-4701
- Temporal redistribution of subalpine meadow trees. Rochefort, R.M., et al. [1996.eng] 50-4336
- Terrain and vegetation of the Imnavait Creek watershed. Walker, D.A., et al. [1996.eng] 50-4842
- Tertiary climate changes in the Russian Far East. Krassilov, V.A., [1994.eng] 50-901
- Thermal erosion in high arctic ecosystems in Spitsbergen. King, L., et al. [1993.eng] 50-843
- Towards a review of Tertiary palaeobotany in the boreal realm. Boulter, M.C., [1994.eng] 50-893
- Tree establishment in subalpine meadows. Woodward, A., et al. [1995.eng] 50-3322
- Tree regeneration in Coloradan forest-tundra ecosystem. Weisberg, P.J., et al. [1995.eng] 50-3295
- Tree seedling and krummholz growth in the forest tundra of Rocky Mountain National Park. Weisberg, P.J., et al. [1995.eng] 50-72
- Tree-ring chronologies at the upper tree line in eastern Tibet. Bräuning, A., [1994.ger] 50-4780
- Tree-ring dating of extreme water level events at Lake Bienville, subarctic Québec, Canada. Lepage, H., et al. [1996.eng] 50-4339
- Treeline/midge correlation, Northwest Territories, Canada. Walker, I.R., et al. [1995.eng] 50-3326
- Tropical alpine ecology: progress and priorities. Rundel, P.W., et al. [1994.eng] 50-3061
- Tropical alpine environments—plant form and function. Rundel, P.W., ed. et al. [1994.eng] 50-3043
- Tussock grass community in a Himalayan alpine grassland. Rikhari, H.C., et al. [1994.eng] 50-5428
- Vascular flora of Pirttimysvuoma, a tundra-like area in northern Sweden. Sjörs, H., [1995.swe] 50-1530
- Vegetation and climate of Holocene megathermal in Zoige, northwestern Sichuan, China. Liu, G.X., et al. [1995.chi] 50-5635
- Vegetation and climate of maritime Canada 6000 years BP: a synthesis. Jetté, H., et al. [1995.eng] 50-1458
- Vegetation and climatic changes in the Qinghai-Xizang Plateau. Liu, G.X., et al. [1995.chi] 50-5620
- Vegetation and ecology of tropical mires in the high Andes of northern Chile. Ruthsatz, B., [1995.ger] 50-4530
- Vegetation and nutrient pools in an arctic watershed. Hahn, S.C., et al. [1996.eng] 50-4843
- Vegetation chronosequence near Exit Glacier, Kenai Fjords National Park, Alaska, U.S.A. Helm, D.J., et al. [1995.eng] 50-3325
- Vegetation cover and moisture effects on solifluction in Spitsbergen. Schmitt, E., [1994.ger] 50-1591
- Vegetation cover in technogenic regions of Northern Europe. Grunzev, B.I., et al. [1994.rus] 50-263
- Vegetation cover of Québec-Labrador 6000 years BP: an essay. Richard, P.J.H., [1995.fre] 50-1457
- Vegetation dynamics and animal behaviour in an alpine pasture of the Garhwal Himalaya. Sundriyal, R.C., [1994.eng] 50-5427
- Vegetation geographical/synsociological research at Liefdefjord (NW Spitsbergen). Thannheiser, D., [1994.ger] 50-1590
- Vegetation in industrial northeastern Yakutia and its reclamation. Mironova, S.J., [1994.rus] 50-266
- Vegetation of land-bridge Beringia. Young, S.B., [1982.eng] 50-3377
- Vegetation of the continental Northwest Territories at 6 ka BP. MacDonald, G.M., [1995.eng] 50-1452
- Vegetation patterns in the alpine zone of the Himalaya in eastern Nepal. Kikuchi, T., [1994.eng] 50-5419
- Vegetation succession in ice age dating. Frenzel, B., [1990.ger] 50-1785
- Vegetational history of western Alaska during the Wisconsin glacial interval and the Holocene. Ager, T.A., [1982.eng] 50-3372
- Vertical distribution of lichens on the mountain, Auelabjerg, northeastern Greenland. Hansen, E.S., [1996.eng] 50-4344
- Water fern residue as Chilean paleoclimatic indicator. Heusser, C.J., et al. [1996.eng] 50-5488
- Water limitations and plant community development in a polar desert. Gold, W.G., et al. [1995.eng] 50-2463
- Wild flowering plants of the Greater Khingan Range and their value for park projects. Lu, Z., et al. [1991.chi] 50-5852
- Vehicle wheels**
- Methodology for predicting for winter conditions in the NATO Reference Mobility Model. Ahlvin, R.B., et al. [1995.eng] 50-48
- Modelling vehicle mobility over multi-layered deep snowcover. Irwin, G.J., et al. [1995.eng] 50-50
- Observations of snow deformation by a wheel. Richmond, P.W., [1995.eng] 50-49
- Plating aluminum wheels against salt and sand. Graves, B.A., [1995.eng] 50-1070
- Soil deformation and stress analysis under a rolling wheel. Foster, W.A., Jr., et al. [1995.eng] 50-47
- Wheels that provide lateral friction on ice. Alderman, R.L., et al. [1995.eng] 50-3460
- Vehicles**
- Algorithm for optimizing road salting routes. Li, L.Y.O., et al. [1996.eng] 50-4011
- Anti-icing and anti-misting formulations. Meric, Y.A., et al. [1993.eng] 50-2339
- Device for applying an insulation cover on overhead power lines. Gonchar, M.I., et al. [1929.rus] 50-1919
- Device for shaping ice roads. Khan, V.B., et al. [1992.rus] 50-1933
- Device for the removal of snow and ice from road pavements. Vetenis, V.I., et al. [1992.rus] 50-1934
- Evaluation of winter vehicle traction with different types of tires. Lu, J.J., et al. [1995.eng] 50-5709
- Method and system for detecting potential icy conditions on roads. Rendón, E., [1995.eng] 50-3461
- Rotary snow remover. Zalko, A.I., et al. [1992.rus] 50-1932
- Splash board for car bodies. Szabó, Z., [1989.eng] 50-2341
- Submersible remote controlled vehicles for glacier-ocean-sediment study. Dowdeswell, J.A., et al. [1996.eng] 50-4902
- System for recovery of oil from snow and ice surfaces. Aiken, L.B., [1995.eng] 50-3473
- Thermal machine for clearing airport pavements of snow and ice. Mogutnov, A.A., [1992.rus] 50-1910
- Traction and hardening tests of mobile missile launcher over frozen ground. Chamberlain, E.J., et al. [1988.eng] 50-2524
- Windshield defroster. Yoshikawa, H., et al. [1987.eng] 50-2242
- Winter operations: keeping crews safe. [1995.eng] 50-3291
- See [also]: Aircraft; Airplanes; All terrain vehicles; Amphibious vehicles; Helicopters; Motor vehicles; Railroad cars; Ships; Snow vehicles; Spacecraft; Submarines; Tanker ships; Tracked vehicles; Tractors
- Vein ice**
- See [also]: Ice veins
- Velocity**
- Alaskan glacier races forward. [1993.eng] 50-4791
- Algorithm modeling stress gradients in grounded glaciers. Blatter, H., [1995.eng] 50-454
- Definition of the loading regime on offshore structures from drifting ice covers. Bekker, A.T., et al. [1996.eng] 50-4463
- Doppler electromagnetic analysis of ice cover gravity wave oscillations. Vdovichenko, S.P., [1996.eng] 50-5703
- Study of dynamic effects on icebreaking in 2-dimension: computations and components of icebreaking load. Yamaguchi, H., et al. [1996.eng] 50-4469
- Topographic control on the dynamics of the Svalbard-Barents Sea ice sheet. Siegert, M.J., et al. [1996.eng] 50-5306
- Transit time of meltwaters in alpine glaciers. Collins, D.N., [1995.eng] 50-2429
- Use of ERS-1 SAR data in numerical sea ice modeling. Lepoint, M., et al. [1992.eng] 50-222
- Zero-velocity deicer spreaders clear more roadway for less. Banasiak, D., [1995.eng] 50-3675
- See [also]: Seismic velocity; Wind velocity

Velocity measurement

Velocity measurement

- Acoustic wave perturbations within the Barents Sea Polar Front. Lynch, J.F., et al. [1996,eng] 50-4590
- Acoustics probe sea-ice mechanics. Rajan, S.D., [1996,eng] 50-6675
- ADCP-referenced geostrophic circulation in the Bering Sea basin. Cokelet, E.D., et al. [1996,eng] 50-6635
- Analytical modeling of glacier dynamics. Bahr, D.B., [1996,eng] 50-5023
- Antarctic jets. Burkov, V.A., [1994,eng] 50-865
- Asian glacier ice flow and mass continuity. Cherkasov, P.A., et al. [1996,eng] 50-6057
- Assessment of rock glacier sliding velocity. Whalley, W.B., et al. [1995,eng] 50-2809
- Atlantic water in the arctic basin. 2. Circulation. Dmitriev, N.E., et al. [1995,eng] 50-6549
- Changes in the configuration of ice stream flow from the West Antarctic ice sheet. Jacobel, R.W., et al. [1996,eng] 50-4360
- Characteristics of tide-water calving at Glacier San Rafael, Chile. Warren, C.R., et al. [1995,eng] 50-450
- Circulation in the Bering Sea basin observed by satellite-tracked drifters: 1986-1993. Stabenow, P.J., et al. [1994,eng] 50-2856
- Comparison of two avalanche forecasting models. Weiler, C., [1995,eng] 50-1060
- Crack velocities in freshwater and saline ice. Petrenko, V.F., et al. [1996,eng] 50-5299
- Direct measurements of transport and water properties through the Bering Strait. Roach, A.T., et al. [1995,eng] 50-566
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1995,eng] 50-4247
- Doppler radar for continuous remote measurement of river ice velocity. Ferrick, M.G., et al. [1996,eng] 50-5810
- Ejection velocity of ice impact fragments. Arakawa, M., et al. [1995,eng] 50-2153
- Elastic properties of dense H₂O-ices studied by Brillouin spectroscopy. Shimizu, H., [1996,eng] 50-6725
- Eruption-triggered debris flow on snow-clad volcanoes. Pierson, T.C., [1995,eng] 50-1655
- Estimation of mean flow velocity in ice-covered channels—discussion. Engel, P., et al. [1996,eng] 50-6338
- Experimental formula of falling velocity of snow crystals. Kajikawa, M., [1975,eng] 50-3883
- Fall velocity of snowflakes. Jiusto, J.E., et al. [1971,eng] 50-3884
- Forward coupled-mode propagation modeling for coastal acoustic tomography. Chiu, C.S., et al. [1996,eng] 50-4589
- GPS geodetic activities in the 1994-95 antarctic campaign. Capra, A., et al. [1995,eng] 50-4393
- Ice flow vectors on the debris-mantled Tasman Glacier, 1957-1986. Kirkbride, M., [1995,eng] 50-2717
- Ice sheet motion and topography from radar interferometry. Kwok, R., et al. [1996,eng] 50-2702
- Icelandic turf-banked terrace geomorphology. Douglas, T.D., et al. [1996,eng] 50-5498
- Katabatic winds over an East Antarctic cirque. Jonsson, S., [1995,eng] 50-1338
- Mapping tide-water glacier dynamics in East Greenland using Landsat data. Dwyer, J.L., [1995,eng] 50-1879
- Measurement of seismic-acoustic ocean-bottom properties in the high Arctic. Dosso, S.E., et al. [1995,eng] 50-1837
- Measurements of powder snow avalanches—laboratory. Keller, S., [1995,eng] 50-1059
- Measuring the density of snow particles and snowfall rate. Muramoto, K.I., et al. [1995,eng] 50-4573
- Methods for measuring discharge under ice cover—discussion. Engel, P., et al. [1996,eng] 50-2721
- Movement of Laptev Sea shelf waters during the TRANSDRIFT II Expedition. Hass, H.C., et al. [1995,eng] 50-2078
- On the climatological mean circulation over the eastern Bering Sea shelf. Reed, R.K., et al. [1996,eng] 50-6201
- Permafrost influence on glacier sediment deformation. Etzelmueller, B., et al. [1996,eng] 50-6240
- Power law determination of ice crystal particle velocities. Mitchell, D.L., [1996,eng] 50-6558
- Quiescent-phase evolution of a surge-type glacier: Black Rapids Glacier, Alaska. U.S.A. Heinrichs, T.A., et al. [1996,eng] 50-4896
- Sampling-rate effects on the properties of dye breakthrough curves from glaciers. Nienow, P.W., et al. [1996,eng] 50-4903
- Sea-ice velocity fields estimation on Ross Sea with NOAA-AVHRR. Montezuma Flores, M., et al. [1995,eng] 50-983
- Sensible heat flux measurements near a cold surface. Yen, Y.-C., [1995,eng] 50-879
- Shear margins in glaciers and ice sheets. Raymond, C., [1996,eng] 50-4894
- Study of the surface circulation to the north of Bransfield Strait. Antarctica. de Souza, R.B., [1992,spa] 50-6663
- Subtidal and tidal currents in the vicinity of the Iceland-Faeroes front. Allen, J.T., [1995,eng] 50-159
- Theory of lattice Boltzmann simulations of glacier flow. Bahr, D.B., et al. [1995,eng] 50-1883
- Thickness and ablation measurements of Fremont Glacier, Wyoming. Nafiz, D.L., et al. [1993,eng] 50-4796
- Three-layer model of flow under the ice cover in rivers. Debofskii, V.K., et al. [1995,eng] 50-352
- Transition from normal to fast sound in liquid water. Sette, F., et al. [1996,eng] 50-5710
- Velocity measurement of glacial flow with aerial photogrammetry. Hofmann, W., [1958,ger] 50-5078

- Water pressure and basal sliding on Storglaciären, northern Sweden. Jansson, P., [1995,eng] 50-446
- Venezuela Late Quaternary climatic fluctuations of the Venezuelan Andes. Yureich, R., ed. [1991,eng] 50-5643
- Venezuela—Andes Mountains Overview of the reproductive biology of *Espeletia* (Asteraceae) in the Venezuelan Andes. Berry, P.E., et al. [1994,eng] 50-3056
- Ventilation Buildings with short piles and ventilated foundations in permafrost. Zhu, L.N., et al. [1995,chi] 50-5625
- Cold climate applications of bioventing. Ong, S.K., et al. [1994,eng] 50-1474
- Energy saving building systems based on advanced hollow core slab technology. Kajava, A., [1984,eng] 50-3160
- Fan pressurization measurements by four protocols. Flanders, S.N., [1995,eng] 50-485
- Modelling of frost formation in rotary heat exchangers. Bilo-deau, S., et al. [1996,eng] 50-6477
- Moisture conditions and control in buildings in Fairbanks, Alaska. Adkins, R., [1996,eng] 50-6138
- Roof blisters: cause and cure. Korhonen, C.J., et al. [1995,eng] 50-394
- Snowproof houses Plan 50. [1986,jpn] 50-2293
- Thermal and vapor performance of insulated assemblies. Carlson, A.R., [1996,eng] 50-6139
- Utilities and systems for the new Amundsen-Scott Station. Theno, S., et al. [1996,eng] 50-6142
- Ventilation experiments in a seasonal snow cover. Albert, M.R., et al. [1995,eng] 50-2397
- Vertical sections See [also]: Profiles
- Very low frequencies Links between the lowest observed frequencies and errors in their forecasting at high latitudes. Ignatov, V.S., et al. [1991,rus] 50-2266
- Vessels See [also]: Ships
- Viability Adaptation of tree seedlings to subalpine meadow soil moisture variations. Kuuluvainen, T., et al. [1996,eng] 50-4337
- Effect of freezing of water samples on viable counts of environmental mycobacteria. Iivanainen, E., et al. [1995,eng] 50-1953
- Fluorimetric assessment of bacteria after freeze-thawing. Puchkov, E.O., et al. [1995,eng] 50-5865
- Frost resistance of artificially deacclimated pine needles. Taulavuori, K., et al. [1996,eng] 50-4151
- Herb germination ecology in Yellowstone National Park. Romme, W.H., et al. [1995,eng] 50-2816
- Statistical analysis of freezing tolerance indices from plant electrolyte variations. Anisko, T., et al. [1995,eng] 50-3612
- Survival and regeneration of dormant silver birch buds stored at super-low temperatures. Ryyanen, L., [1996,eng] 50-6745
- Variables of cryopreservation of marine microalgae. Calavate, J.P., et al. [1995,eng] 50-4327
- See [also]: Cold tolerance; Cold weather survival; Survival
- Vibration Aging effects on translational lattice vibrations in ice I_h. Fukuzawa, H., et al. [1996,eng] 50-6615
- Automated wind tunnel measurements. Stumpf, P., et al. [1994,eng] 50-3689
- Behavior of crystals in kimberlite and ice under the action of shock waves. Beloborodov, V.N., et al. [1995,eng] 50-1206
- Cable galloping model for thin ice accretions. McComber, P., et al. [1996,eng] 50-5381
- Effect of icing on the dynamic behaviour of guyed antenna towers. Wahba, Y.M.F., et al. [1996,eng] 50-5378
- Electro-impulse deicing of the NASA Lewis altitude wind tunnel turning vanes. Ross, R., [1988,eng] 50-4100
- Experience and analysis of galloping phenomenon in overhead transmission lines in Iran. Javahermandesh, M., [1996,eng] 50-5404
- Fifteen years field trials of galloping controls for overhead power lines. Havard, D.G., [1996,eng] 50-5382
- Free vibrations of a snowboard. Sakata, T., et al. [1996,eng] 50-4568
- Galloping events and associated meteorological condition experienced in Hokuriku area. Kasima, H., et al. [1996,eng] 50-5380
- Galloping of iced electrical transmission lines. Poplewell, N., et al. [1996,eng] 50-5377
- Galloping on overhead transmission test lines with artificial snow. Ozawa, A., et al. [1996,eng] 50-5379
- Instability trends of inertially coupled galloping, part 2: periodic variations. Yu, P., et al. [1995,eng] 50-1054
- Lattice vibrations in ice I_h. Itoh, H., et al. [1996,eng] 50-6616
- Measurement of ice accretion and persistence at unmanned sites. Final report. Hill, G.E., [1990,eng] 50-4365
- Neutron scattering of high pressure ice polymorphs. Li, J.C., et al. [1996,eng] 50-6344
- Nonlinear acoustic effects due to cracks in ice cover. Ekimov, A.E., et al. [1996,eng] 50-5291
- Numerical study of iced conductors aerodynamics. Ilincă, A., et al. [1996,eng] 50-5336
- On the generation of internal waves beneath sea ice by a moving load. Duffy, D.G., [1996,eng] 50-3825
- Perturbation-based finite element analyses of transmission line galloping. Desai, Y.M., et al. [1996,eng] 50-4291

Viscosity

- Response of a circular ice floe to ocean waves. Meylan, M.H., et al. [1996,eng] 50-5264
- Shear moduli and damping in frozen and unfrozen clay by resonant column tests. Al-Hunaidi, M.O., et al. [1996,eng] 50-5817
- Similarity of vibrational spectra of high-density amorphous ice and high-pressure phase ice VI. Kolesnikov, A.I., et al. [1995,eng] 50-937
- Simulation of clathrate hydrate thermal conductivity. Inoue, R., et al. [1996,eng] 50-5505
- Smart skins and other adaptive structures. Ashley, S., [1995,eng] 50-4618
- Snow accretion and galloping on overhead transmission lines. Ozawa, A., et al. [1996,eng] 50-5371
- Student invents a prize-winning ice detector. Rice, D., [1996,eng] 50-5084
- Theory of inelastic x-ray scattering by phonons in ice. Johansson, P., [1996,eng] 50-6329
- Viscoelasticity Characteristics of sound reflected from sea ice. Aleksandrov, I.A., et al. [1995,eng] 50-3153
- Dynamic impact between a viscoelastic ice floe and a rigid structure. Morland, L.W., [1996,eng] 50-3824
- Elastic response of the earth to interannual variations in antarctic precipitation. Conrad, C.P., et al. [1995,eng] 50-3089
- Flow properties of crushed ice. Singh, S.K., et al. [1995,eng] 50-2999
- Freezing rate effects on colloid viscoelasticity. Sahagian, M.E., et al. [1995,eng] 50-1253
- Influence of a finite glaciation phase on predictions of post-glacial isostatic adjustment. Mitrovica, J.X., et al. [1995,eng] 50-2723
- Large strain finite-element analysis of snow. Meschke, G., et al. [1996,eng] 50-5923
- Mass dependence of energy loss in collisions of icy spheres: an experimental study. Dilley, J., et al. [1996,eng] 50-5196
- Mathematical analysis of the flow of soils down a slope. Petrov, V.S., et al. [1993,rus] 50-1119
- Mathematical model of spray ice island creep. Thiel, D.T., et al. [1991,eng] 50-1720
- Mode coupling theory of structural relaxations. Götz, W., et al. [1995,eng] 50-1220
- Photoviscoelastic modeling of the creep of frozen soil. Zhao, X.S., et al. [1996,eng] 50-6743
- Quasielastic neutron scattering in glass forming viscous liquids. Petry, W., et al. [1995,eng] 50-1224
- Study of practicality of photoviscoelastic simulation test for frozen soil's creep. Wang, T.D., et al. [1995,chi] 50-5624
- Vertical motion and ice thickness variation in western North America. Trupin, A.S., et al. [1996,eng] 50-3068
- Viscosity Asymptotic stability of the viscous-plastic sea ice rheology. Schulkes, R.M.S.M., [1996,eng] 50-4534
- Cold region hydraulic oil applications. Uhrig, S.L., [1991,eng] 50-1758
- Effects of anti-icing fluid on wing lift during supercooled precipitation. Bouchard, G., et al. [1995,eng] 50-3255
- Formation and movement of avalanches. Moskalev, I.U.D., [1966,rus] 50-3833
- Frost durability of concrete containing viscosity-modifying admixtures. Khayat, K.H., [1995,eng] 50-4500
- Glacial isostasy and lateral mantle viscosity. Sabadini, R., et al. [1989,eng] 50-4710
- Glacial rebound of the British Isles—III: constraints on mantle viscosity. Lambeck, K., et al. [1996,eng] 50-4737
- Global sea level rise and glacial isostatic adjustment. Peltier, W.R., [1996,eng] 50-4310
- Icing degrades aircraft performance: fluids provide best defense against ice on the ground. [1992,eng] 50-3875
- Introductory analysis of boundary-layer development on de/anti-icing fluid. Perron, E., et al. [1996,eng] 50-4217
- Light-scattering spectrum of supercooled liquids. Latz, A., et al. [1996,eng] 50-5102
- Liquid water below 150K. Johari, G.P., et al. [1996,eng] 50-5444
- Low-temperature amorphous phase in a fragile glass-forming substance. Cohen, I., et al. [1995,eng] 50-5971
- Mantle rebound from data inversion of glacier isostatic dynamics. Peltier, W.R., et al. [1996,eng] 50-3548
- Microscopic dynamics of glycerol in its crystalline and glassy states. Bermejo, F.J., et al. [1996,eng] 50-4418
- Mode coupling in critical phenomena and supercooled liquids. Kawasaki, K., [1995,eng] 50-1219
- Modelling of continuous crushing of ice in front of offshore structures. Brown, T.G., et al. [1995,eng] 50-575
- Rheology of water ices V and VI. Durham, W.B., et al. [1996,eng] 50-3450
- Simple relationship between the properties of isotopic water. Vedamuthu, M., et al. [1996,eng] 50-4184
- Slow dynamics of water molecules in supercooled states. Gallo, P., et al. [1996,eng] 50-4293
- Strength and viscosity of ice. Zaretskii, I.U.K., et al. [1996,rus] 50-6825
- Ten million year histories of obliquity and precession: the influence of the ice-age cycle. Jiang, X.H., et al. [1996,eng] 50-5044
- Thermodynamic theory of supercooled liquids. Kivelson, D., et al. [1995,eng] 50-943
- Viscosity of fluidized snow. Nishimura, K., [1996,eng] 50-5465

Viscous flow

Viscous flow

- Changes of model mixtures during freezing and drying. Shalae, E.U., et al. [1996.eng] 50-4531
- Computer model of glaze accretion on wires. Draganou, G., et al. [1996.eng] 50-5160
- Evaluation of vacuum-insulated tubing for paraffin control at Norman Wells. Purdy, I.L., et al. [1991.eng] 50-1727
- Ice streams in Antarctica: transverse instability of gravity driven flow. Minale, M., et al. [1996.eng] 50-3722
- Lobal interactions and rheologic superposition in subglacial till near Bradville, Ontario, Canada. Hicock, S.R., [1992.eng] 50-2550
- Power law determination of ice crystal particle velocities. Mitchell, D.L., [1996.eng] 50-6558
- Shear margins in glaciers and ice sheets. Raymond, C., [1996.eng] 50-4894
- Viscosity of fluidized snow. Nishimura, K., [1996.eng] 50-5465

Visibility

- Behavior of vehicles driven in blowing snow. Fukuzawa, Y., et al. [1994.jp] 50-2826
- Better visibility needed in snowplowing. [1995.eng] 50-3855
- Comparison of sensors and conditions at Smoke Week X and Smoke Week XI. Kennedy, B.W., et al. [1990.eng] 50-737
- Estimating visibility on roads in snow by video. Ishimoto, K., et al. [1995.jp] 50-6800
- Light dispersion and horizontal transparency in the surface boundary layer of the polar regions. Sakunov, G.G., et al. [1993.rus] 50-4507
- Obscuration in smoke and snow. Hutt, D.L., [1990.eng] 50-733
- Poles spaced along the road with overhead reflectors as lane markers in snow. Hirasawa, H., et al. [1994.jp] 50-2837
- Precipitation parameters in natural obscuration. Hogan, A.W., [1990.eng] 50-734
- Snow fences in Hokkaido to improve visibility. Fukuzawa, Y., et al. [1995.jp] 50-6799
- Snow scavenging effects on large-area smoke screens. Slota, J.R., et al. [1991.eng] 50-764
- Snow scavenging on the winter battlefield. Slota, J.R., et al. [1990.eng] 50-735
- Snowfall intensity climatologies within the contiguous United States. Ryerson, C.C., [1991.eng] 50-763
- Submesoscale variation in snow-induced obscuration. Hogan, A.W., [1991.eng] 50-762
- Tests of electro-optic sensors in smoke and obscurants. Quebec, Feb.-Mar. 1989. Kennedy, B.W., et al. [1990.eng] 50-736
- Variations on the Schaeffer replication technique for snowflakes. Benko, J.J., [1995.eng] 50-3613
- Wind tunnel experiments on snowbreaks for Hokkaido highways. Sasaki, M., et al. [1995.jp] 50-6798

See [also]: Transparency; Turbidity

Visual range theory

See [also]: Visibility

Vitroreous ice

- Crystallization of ice in glycerol solutions. pt. I. Hey, J.M., et al. [1996.eng] 50-5813
- Electron-beam-induced amorphization of ice III or IX obtained by high-pressure freezing. Sartori, N., et al. [1996.eng] 50-6531
- Spectroscopic damage to hydrated specimens in vitroreous ice. Leapman, R.D., et al. [1995.eng] 50-1648
- Vitrification of articular cartilage by high-pressure freezing. Studer, D., et al. [1995.eng] 50-6589
- X-ray and neutron scattering studies of the structure of water at a hydrophobic surface. Bellissent-Funel, M.C., et al. [1996.eng] 50-5713

See [also]: Amorphous ice

Volcanic ash

- 10-century comparison of prominent bipolar volcanic events in ice cores. Langway, C.C., Jr., et al. [1995.eng] 50-583
- 110,000-yr record of explosive volcanism from the GISP2 (Greenland) ice core. Zielinski, G.A., et al. [1996.eng] 50-4575
- Albedo of dirty snow during conditions of melt. Conway, H., et al. [1996.eng] 50-5969
- Basic study of pyroclastic flow on a snow-covered slope. Miura, A., et al. [1994.jp] 50-2836
- Bismuth in recent snow from central Greenland: preliminary results. Candelone, J.P., et al. [1995.eng] 50-779
- Climatic significance of bristlecone pine frost-ring records. Brunstein, F.C., [1996.eng] 50-4338
- Distributions of volcanic aerosols in antarctic polar stratospheric clouds. Adriani, A., et al. [1995.eng] 50-2848
- Effect of volcanic aerosols on ultraviolet radiation in Antarctica. Tsitas, S.R., et al. [1996.eng] 50-3066
- Electrical conductivity measurements in ice. Sugiyama, K., et al. [1995.eng] 50-2575
- European paleoclimatic variations inferred from Greenland ice core isotope analysis. Hafidason, H., et al. [1995.eng] 50-2528
- Geochemistry of volcanic ash in the ice near Brimstone Peak. Faure, G., et al. [1994.eng] 50-1885
- Geochemistry of volcanic ashes from Greenland Basin. Haase, K.M., et al. [1996.eng] 50-5267
- Greenland ice core sediments correlated with oceanic sediments. Grönvald, K., et al. [1995.eng] 50-1251
- Greenland ice sheet climate record of the past 16,500 years. Stuiver, M., et al. [1995.eng] 50-2015
- Ice-rafted tephra sedimentation of the North Atlantic. Lacasse, C., et al. [1996.eng] 50-4140

- Iceland paleoclimatology dynamics from volcanic ash in lacustrine deposits. Björck, S., et al. [1992.eng] 50-2547
- Internal melt figures in Japanese pond ice and microparticles in antarctic ice cores. Higashi, A., [1996.jp] 50-4931
- Kulshan caldera: a Quaternary subglacial caldera in the North Cascades, Washington. Hildreth, W., [1996.eng] 50-6547
- New radiocarbon dates for the Vedde ash and the Saksunarvatn ash from western Norway. Birks, H.H., et al. [1996.eng] 50-4576
- Ozone and aerosol correlated observations at Thule, Greenland, in the period 1991-1994. Di Sarra, A., et al. [1995.eng] 50-2849

- Paleoclimatic changes and glacier variations in Colombia. Thouret, J.C., et al. [1996.eng] 50-6706
- Paleoclimatic reconstructions from antarctic volcanic ash deposits. Marchant, D.R., et al. [1996.eng] 50-4233
- Photometry of Mt. Pinatubo aerosols at Spitsbergen. Beyerle, G., et al. [1995.eng] 50-1183
- Pliocene paleoclimate of Dry Valleys of Southern Victoria Land. Marchant, D.R., et al. [1996.eng] 50-6629
- Relevance of thermoluminescence dating of Pleistocene loess to volcanic eruptive history. Berger, G.W., et al. [1995.eng] 50-2118
- Satellite monitoring of antarctic stratosphere volcanic aerosols. Saxena, V.K., et al. [1995.eng] 50-591
- Simulation of arctic stratospheric response to aerosol perturbations. Zhao, X.P., et al. [1996.eng] 50-6680
- Skógar Tephra, a Younger Dryas marker in North Iceland. Norddahl, H., et al. [1992.eng] 50-2548
- Thermoluminescence dating of Alaskan Pleistocene tephra. Berger, G.W., et al. [1996.eng] 50-5188
- Toba eruption sulfates recorded in GISP2 ice core. Zielinski, G.A., et al. [1996.eng] 50-5288
- Volcanic ash variations in the antarctic stratosphere. Anderson, J., et al. [1996.eng] 50-5613
- Volcanic eruption at a New Zealand ski resort prompts reevaluation of hazards. Ruapehu Surveillance Group. [1996.eng] 50-5501
- Volcanic perturbation of the atmosphere in both polar regions: 1991-1994. Herber, A., et al. [1996.eng] 50-3444
- Volcanic stratospheric loading derived from Greenland ice core measurements. Zielinski, G.A., [1995.eng] 50-1331

Volcanoes

- Basic study on volcanic debris flows over snow slopes. Miura, A., et al. [1995.jp] 50-6736
- Contemporaneous volcanoes of Bransfield Rift, West Antarctica. Birkenmajer, K., [1993.eng] 50-2196
- Cryovolcanism on the icy satellites. Kargel, J.S., [1994.eng] 50-1860
- Double wedging model for the Qinghai-Xizang Plateau. Zheng, J.D., [1992.chi] 50-1505
- Eruption-triggered debris flow on snow-clad volcanoes. Pierson, T.C., [1995.eng] 50-1655
- Eruption-triggered flood from a glacier-clad volcano in Columbia. Thouret, J.C., et al. [1995.eng] 50-4830
- Geochemistry of volcanic ashes from Greenland Basin. Haase, K.M., et al. [1996.eng] 50-5267
- Geomorphic effects of the retreat of Jamapa Glacier. Pico de Orizaba Volcano (Mexico). Palacios, D., et al. [1996.eng] 50-5578
- Impact of subglacial geothermal activity on glacier meltwater quality. Lawler, D.M., et al. [1996.eng] 50-6087
- Late Cenozoic tectonics and the dynamics of the west antarctic ice sheet. Behrendt, J.C., et al. [1994.eng] 50-1884
- Products of subglacial volcanic eruptions under different ice thicknesses. Smellie, J.L., et al. [1994.eng] 50-2993
- Seismo-acoustic studies in a flooded caldera on Deception Island. Kowalewski, W., et al. [1989.pol] 50-2878
- Tholeiitic-alkalic transition at subglacial volcanoes, Tuya region, British Columbia, Canada. Moore, J.G., et al. [1995.eng] 50-3012
- Volcanic and tectonic history of Enceladus. Kargel, J.S., et al. [1996.eng] 50-3864
- Volcanic eruption at a New Zealand ski resort prompts reevaluation of hazards. Ruapehu Surveillance Group. [1996.eng] 50-5501

Volume

- Freeze-thaw effects of fine-grained soil permeability. Eigenbrod, K.D., [1996.eng] 50-6749

See [also]: Ice volume

Walls

- Design guide for frost-protected shallow foundations. NAHB Research Center, [1994.eng] 50-3579
- Economic expediency of composite insulating bricks for wall structures. Nedavni, O.I., et al. [1995.rus] 50-722
- Energy saving building systems based on advanced hollow core slab technology. Kajava, A., [1984.eng] 50-3160
- Forecasting the thermal regime of thin-walled moored structures under Arctic conditions. Shkola, A.V., et al. [1992.rus] 50-757
- Marine hydro-engineering and the mechanization of loading operations in ports. Iakovlev, P.I., ed. [1992.rus] 50-756
- Mathematical model of a freezing wall with freezing pipes. Gao, M., [1989.chi] 50-1400
- Methods for calculating the temperature field of a freezing wall. Fu, L.D., et al. [1989.chi] 50-1399
- Offshore development in iceberg-infested waters with the use of a concrete protective barrier. Broughton, P., et al. [1991.eng] 50-1731
- Preliminary study on the calculation of deformation of frozen wall. Mi, H.Z., [1989.chi] 50-1397

Waste disposal

- Prevention of frost damage to enclosure walls. Wang, G.S., [1989.chi] 50-1384
- Strength of composite ice-resisting walls subjected to combined loads. Stephens, M.J., et al. [1990.eng] 50-95
- Study on horizontal frost heaving force of retaining wall in seasonal frozen ground region. Sui, T.L., et al. [1989.chi] 50-1365
- Thin retaining walls for conditions in the Far North and the Far East. Omelchenko, I.U.M., [1992.rus] 50-758
- Underground fuel tanks for Alaska. Freas, G.C., [1991.eng] 50-4226

Warning systems

- Acoustic detection of avalanches at the Sionne-Anzère site, Valais, Switzerland. Chritin, V., et al. [1995.fre] 50-4680
- Automated measurements of snow temperature profiles in the Cairngorm mountains, Scotland. Purves, R.S., et al. [1995.eng] 50-2795
- Avalanche bulletin and computer aided communication: preliminary results. Bolognesi, R., et al. [1995.fre] 50-4656
- Avalanche warning flags: what do you think? Sivardière, F., [1995.fre] 50-2593
- Calibration of anemometers for use in icing conditions. Makkonen, L., et al. [1996.eng] 50-5348
- Development of road traffic information system responsive to driver telephone requests. Horikawa, T., et al. [1993.jp] 50-2838
- Environmentally caused variation in exterior intrusion detection. Peck, L., [1995.eng] 50-888
- Freezing-rain reporting capability of the Automated Surface Observing System (ASOS). Ramsay, A.C., [1996.eng] 50-5334
- Ice detection for turboprop aircraft. Render, P.M., et al. [1995.eng] 50-3691
- ICEYE: development of an aircraft ice accretion warning and monitoring system. Slaba, J., et al. [1995.eng] 50-4036
- Local forecasting of avalanche hazard in La Plagne. Schneider, C., [1995.fre] 50-4657
- Local forecasting of avalanche hazards at Alpe d'Huez in the Grandes Rousses. Daultier, J.M., [1995.fre] 50-4661
- Method and system for detecting potential icy conditions on roads. Rendon, E., [1995.eng] 50-3461
- Methods for creating a monitor of dangerous natural phenomena using an electronic map. Bidenko, S.I., [1991.rus] 50-1290
- Multilingual vocabulary—snow and avalanches. International Mountain Rescue Commission, [1991.eng] 50-5292
- Organization of the river and flood program in the National Weather Service. Stallings, E.A., et al. [1995.eng] 50-1135
- Predicting winter weather. Williams, J., [1995.eng] 50-3686
- Profession: cross country ski patrol. Ours, L., [1996.fre] 50-4870
- River ice motion detector. Zufelt, J.E., et al. [1995.eng] 50-889
- Roadside temperature displays and use of studless tires. Takagi, H., [1993.jp] 50-2840
- SNOTAMS: Advisories on airport snow and ice conditions. Hamm, J., [1996.eng] 50-3685
- Studying arctic and subarctic ecosystems of impact regions using remote monitoring methods. Tereshchenkov, O.M., et al. [1994.rus] 50-278
- Swiss concept for forecasting the danger of avalanches. Ammann, W.J., [1995.fre] 50-4659
- Temporal weather impacts upon exterior intrusion detection systems. Ryerson, C.C., et al. [1995.eng] 50-4544
- Testing of radome material and special coatings for North Warning System. Crory, F.E., [1988.eng] 50-761
- Use of remote sensing spacecraft in real-time support for disaster management. Tortorici Montaperto, A., et al. [1992.eng] 50-620
- Warning device for precipitation. Romanov, E.V., et al. [1992.rus] 50-1906
- Warning system for snow on power lines using neural networks. Ohta, H., et al. [1996.eng] 50-5355
- Winter operations: keeping crews safe. [1995.eng] 50-3291
- Winter warning traffic signs in Hokkaido. Takayama, H., et al. [1995.jp] 50-6796

See [also]: Monitors

Waste disposal

- 1994-1995 antarctic field season. Roberts, C.A., et al. [1995.eng] 50-2477
- Air temperature effects on cold weather drilling mud dewatering. Wojanowicz, A.K., et al. [1991.eng] 50-1708
- Alternatives for closure of solid oily waste sites on the North Slope of Alaska. Kelles, B.L., et al. [1991.eng] 50-1709
- Alyeska/SERVS technological innovations for oil spill response. Hillman, S.O., [1996.eng] 50-5552
- Antarctic journal of the United States, vol.28, no.4. [1993.eng] 50-138
- Arctic radioactive contamination from former Soviet Union sources. Bradley, D.J., [1992.eng] 50-5484
- Biofluffing—enhancing biological remediation of near-surface spills by augering. Stehmeier, L., et al. [1996.eng] 50-5567
- Biological remediation of shoreline oily waste from marine spills. Labrie, P., et al. [1990.eng] 50-474
- Biological treatment of waste water containing glycols from deicing agents. Nitschke, L., et al. [1996.eng] 50-3619
- Bioremediation of a petroleum-contaminated cryic soil. Walworth, J.L., et al. [1995.eng] 50-781
- Bioremediation of stations of the Alfred Wegener Institute. Kohnen, H., [1994.eng] 50-4271
- Cleanup assessment of the pipeline oil spill on the Kova River. Sienkiewicz, A.M., et al. [1996.eng] 50-5570

Waste heat recovery

- Cold recycling of reclaimed asphalt concrete. Test road in Värmland—three years experience. Jacobson, T., [1995.swe] 50-950
- Cold regions infrastructure: an international imperative for the 21st century. International Conference on Cold Regions Engineering, 8th, Fairbanks, AK, Aug. 12-16, 1996, [1996.eng] 50-6106
- Cold regions utilities monograph. Third edition. Smith, D.W., ed. et al. [1996.eng] 50-6424
- Comparative study of bottom sediment pollution in Lianyungang and Vladivostok harbors. Tkalin, A.V., [1995.eng] 50-5063
- Comprehensive review of oil spill combustion studies. Walavalkar, A.Y., et al. [1996.eng] 50-5559
- Contained controlled burning of spilled oil during the Exxon Valdez oil spill. Allen, A.A., [1990.eng] 50-471
- Development of an Alaskan North Slope soils database for drill cuttings reclamation. Schumacher, J.P., et al. [1991.eng] 50-1722
- Disposal of drilling wastes in permafrost. Prudhoe Bay, Alaska. Hansen, P., et al. [1996.eng] 50-6134
- Distribution of cesium-137 in Bering and Chukchi Sea marine sediments. Cooper, L.W., et al. [1995.eng] 50-5062
- Dredging Eagle River Flats: remediation study in an active impact area. Walsh, M.R., [1996.eng] 50-5913
- Drilling waste disposal in the Arctic using below-grade freeze-back. Maund, T.E., et al. [1991.eng] 50-1697
- Drilling wastes management for Alaska's North Slope. Fristoe, B.R., [1991.eng] 50-1723
- Emulsion breaking igniters: recent developments in oil spill igniter concepts. Guénette, C.C., et al. [1995.eng] 50-5729
- Environmental evaluation of the rebuilding of Signy Station. British Antarctic Survey, [1990.eng] 50-1546
- Field test of waste oil combustion and empty drum cleaning at Alexandra Fiord, NWT. McCourt, J., et al. [1996.eng] 50-5565
- Frozen shaft for nuclear waste disposal in Germany. Jordan, P., et al. [1992.eng] 50-29
- Frozen soil barrier technology. Oak Ridge National Laboratory. Hazardous Waste Remedial Actions Program (HAZWRAP), [1995.eng] 50-2793
- Fuel and oil usage in Antarctica. Sayers, J., [1994.eng] 50-4273
- Handling practice effects on soil sample chemistry. Hewitt, A.D., [1996.eng] 50-5962
- Hydraulic fill ash storage design for the permafrost zone. Koritova, I.V., et al. [1995.eng] 50-1838
- Ice wharves sampling and analysis plan for ocean dumping. McMurdo Station, Antarctica. Crockett, A.B., [1993.eng] 50-3929
- In-situ burning of Alaskan oils and emulsions. Buist, L., et al. [1996.eng] 50-5558
- In-situ burning of crude oil and emulsions in broken ice. Guénette, C.C., et al. [1996.eng] 50-5557
- In-situ burning of uncontained crude oil and emulsions. Guénette, C.C., et al. [1995.eng] 50-5728
- JARE-33 activities in summer 1991-1992 and winter 1992. Fukuchi, M., et al. [1996.jp] 50-6348
- Land application turns wastewater into ice cubes. Madison, M., et al. [1994.eng] 50-2122
- Life cycle cost analysis of a Storburn propane combustion toilet. Ruiz, P., et al. [1996.eng] 50-6175
- Means of distributing waste water into soil in subfreezing temperatures. Martynov, A.G., [1992.rus] 50-1902
- Modelling the release of radioactive waste in the Kara Sea. Timms, S.J., et al. [1995.eng] 50-5059
- Municipal solid waste characterization in a cold remote region. Ogbe, A.A., et al. [1996.eng] 50-6172
- Nuclear waste management in Canada. MacDowall, J., [1984.eng] 50-3164
- Ocean pollution in the Arctic north and the Russian Far East. Kirk, E.J., ed. [1995.eng] 50-5058
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge, Alaska. Department of Environmental Conservation. Division of Environmental Quality, [1990.eng] 50-3913
- Ottawa firm makes wastewater 'white as snow'. Kneisel, S., [1996.eng] 50-6744
- Overview of the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Hartley, A.E., Sr., [1996.eng] 50-5568
- Oxygen supplies for bioremediation in tundra soils. White, D.M., et al. [1996.eng] 50-6135
- Perennially frozen rock as a site for burying industrial wastes. Borisov, V.N., et al. [1996.rus] 50-6824
- Performance of landfill cover systems in cold climates. Lee, J.Y., [1994.eng] 50-371
- Potential for bioremediation of fuel-contaminated soil in Antarctica. Wardell, L.J., [1995.eng] 50-782
- Potential for integrated waste management in the United States Antarctic Program as a model. Juergens, E.D., [1994.eng] 50-4270
- Pre-analysis of soil organic compound holding times. Hewitt, A.D., [1996.eng] 50-5961
- Predicting the level of frost penetration into landfill covers. Moo-Young, H.K., Jr., et al. [1996.eng] 50-6169
- Preliminary results of studies of industrial and nuclear contaminants in the Ob and Yenisey rivers and the Kara Sea. Champ, M.A., et al. [1995.eng] 50-5060
- Primary and secondary containment of hazardous substances in cold regions with HDPE liner. Richards, F.T., et al. [1991.eng] 50-1710

- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 18th, Edmonton, Alberta, June 14-16, 1995, [1995.eng] 50-5715
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 19th, Calgary, Alberta, June 12-14, 1996, [1996.eng] 50-5551
- Radioactive contaminants: potential risk to ocean ecosystems. Kelley, J.J., et al. [1996.eng] 50-5906
- Radioecological studies of radioactive contaminants in Ussury Bay, Sea of Japan. Soifer, V.N., [1995.eng] 50-5061
- Remediation of a hydrocarbon spill in Alberta. Mitton, M.J., et al. [1995.eng] 50-5725
- Removal of hydrocarbons from the Bahia Paraito. Arangio, I.A., [1994.eng] 50-4272
- Response operations on the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Stillings, W.L., [1996.eng] 50-5569
- Russian alternative energy sources in the Antarctic. Sheinstein, A.S., [1994.eng] 50-4276
- Sites used for disposal of radioactive waste in Alaska. [1994.eng] 50-4943
- Smoke plume trajectory from *in situ* burning of crude oil in Alaska—field experiments. McGrattan, K.B., et al. [1995.eng] 50-5727
- Soil bioremediation at CFB Trenton: evaluation of bioremediation processes. Ouellette, L., et al. [1996.eng] 50-5566
- Solid waste management in rural Alaska. Hansen, H.M., et al. [1996.eng] 50-6171
- Subarctic lake pollution by gold mine arsenic effluent. Bright, D.A., et al. [1996.eng] 50-4207
- Subsidence Oil in Coarse Sediments Experiments (SOCSEX II). Harper, J.R., et al. [1995.eng] 50-5726
- Symposium on Antarctic Logistics and Operations, 6th. Proceedings. Symposium on Antarctic Logistics and Operations, 6th, Rome, Italy, Aug. 29-31, 1994, [1994.eng] 50-4267
- Thermal insulating geosynthetics as a soil protective cover substitute. Deutsch, W.L., Jr., [1995.eng] 50-2866
- Transfer of reprocessing wastes from north-west Europe to the Arctic. Kershaw, P., et al. [1995.eng] 50-4559
- Use of dispersants in broken ice. Brown, H.M., et al. [1996.eng] 50-5553
- Waste management concept at the German winter station Neumayer. El Naggar, S., et al. [1994.eng] 50-4269
- See [also]:* Sewage disposal
- Waste heat recovery**
See [also]: Heat recovery
- Waste treatment**
Air temperature effects on cold weather drilling mud dewatering. Wojanowicz, A.K., et al. [1991.eng] 50-1708
- Alternatives for closure of solid oily waste sites on the North Slope of Alaska. Kellems, B.L., et al. [1991.eng] 50-1709
- Biological phosphorus removal: effect of low temperature. Kumar, P., et al. [1996.eng] 50-4755
- Bioreactor with liquid suspensions of *Alcaligenes eutrophus* JMP134. McKay, D.J., et al. [1995.eng] 50-5660
- Case history of a lined wastewater treatment lagoon failure. Merrill, K.S., et al. [1996.eng] 50-6150
- Cold temperature nutrient removal from wastewater. Oleszkiewicz, J.A., et al. [1996.eng] 50-6151
- Cold-climate constructed wetlands. Møhlum, T., et al. [1995.eng] 50-6066
- Dispersion-by-chemical-reaction technology to stabilize asphalt tar. Brar, G.S., et al. [1995.eng] 50-727
- Freeze/thaw treatment on waste activated sludge: a FTIR spectroscopic study. Hong, S.G., et al. [1995.eng] 50-1568
- Freeze/thaw treatment on zone settling of waste activated sludges. Chen, G.W., et al. [1996.eng] 50-5043
- Hydraulic conductivity of frozen granular soils. Andersland, O.B., et al. [1996.eng] 50-4048
- In situ remediation of hydrocarbon contaminated soil and groundwater. Gould, T.F., et al. [1996.eng] 50-6116
- Incorporation and rejection of alum sludge flocs by an advancing freezing front. Parker, P.J., et al. [1996.eng] 50-6170
- Innovative bioventing system construction/operation in cold regions. Strickland, K.K., et al. [1996.eng] 50-6136
- Intermittent-discharge lagoons for use in cold regions. Prince, D.S., et al. [1995.eng] 50-1840
- Natural freeze-thaw dewatering of aerated lagoon sludges. Desjardins, M.A., et al. [1996.fre] 50-5808
- Oil and gas waste management issues and recommendations for the Arctic National Wildlife Refuge, Alaska. Department of Environmental Conservation. Division of Environmental Quality, [1990.eng] 50-3913
- Ottawa firm makes wastewater 'white as snow'. Kneisel, S., [1996.eng] 50-6744
- Performance of lagoons experiencing seasonal ice cover. Price, D.S., et al. [1995.eng] 50-2124
- Petroleum hydrocarbon removal via volatilization and biodegradation at McGrath, Alaska. Ramert, P.C., et al. [1996.eng] 50-6115
- Potential for greater use of wetlands for waste treatment in northern Canada. Doku, I.A., et al. [1995.eng] 50-361
- Primary and secondary containment of hazardous substances in cold regions with HDPE liner. Richards, F.T., et al. [1991.eng] 50-1710
- Process for the treatment of a waste water stream. Janssen, J.J., et al. [1993.eng] 50-2233
- Spray freezing to treat oil sands tailings pond water. Gao, W., et al. [1996.eng] 50-6112
- Swedish building research in Antarctica. Swedish Council for Building Research, [1992.eng] 50-1419

Water balance

- Wastewater treatment facility aeration project. Eddy, G.L., [1996.eng] 50-6149
- Wastewater treatment through atomizing freeze-crystallization. White, J.A., et al. [1995.eng] 50-3117
- See [also]:* Sewage treatment
- Wastes**
See [also]: Radioactive wastes
- Water**
Sound velocity in water and ice. Ruocco, G., et al. [1996.eng] 50-3102
- See [also]:* Artesian water; Ground water; Heavy water; Hygroscopic water; Lake water; Meltwater; Salt water; Sea water; Soil water; Subpermafrost ground water; Suprapermafrost ground water; Surface waters; Unfrozen water content
- Water air interactions**
See [also]: Air water interactions
- Water balance**
Analysis of the water and salt balance of the irrigated areas in the Yangtze Basin. Song, Y.D., et al. [1991.chi] 50-5121
- Anthropogenic climate change and reduction of water resources. Golubtsov, V.V., et al. [1996.eng] 50-5055
- Assessment of hydrological changes. Hiltunen, T., [1994.eng] 50-3184
- Boreal forest catchments: research sites for global change at high latitudes. Slaughter, C.W., et al. [1995.eng] 50-767
- Calculating thermal and water resources of small river catchment areas in Siberia: part 2. Karnatsevich, I.V., [1991.rus] 50-132
- Characteristics of runoff formation at the Kirgizskiy Alaico, Tien Shan. Aizen, V.B., et al. [1995.eng] 50-2435
- Cold climate hydrometeorology. Upadhyay, D.S., [1995.eng] 50-5508
- Comparative water relations of tropical alpine plants. Meinzer, F.C., et al. [1994.eng] 50-3047
- Controls of canopy structure on snowmelt rates in the boreal forest. Metcalfe, R.A., et al. [1995.eng] 50-3130
- Current problems in the Aral Sea and prospects for their solutions. Tsytsein, A.G., et al. [1991.rus] 50-731
- Damming James Bay: I. Potential impacts on coastal climate and the water balance. Rouse, W.R., et al. [1992.eng] 50-5030
- Distributed snowmelt modeling using a clustering algorithm. Harrington, R.F., et al. [1995.eng] 50-2409
- Ecological significance of German mountain periglacial deposits. Frühauf, M., [1990.ger] 50-4565
- Effects of forest clearcutting on snow hydrology. Meng, F.R., et al. [1995.eng] 50-768
- Energy balance and hydrological processes in an arctic watershed. Hinzman, L.D., et al. [1996.eng] 50-4844
- Energy—water—mass balance and hydrological discharge. Kang, E.S., [1994.eng] 50-5576
- Environmental biology of a tropical treeline species, *Polyteles sericea*. Goldstein, G., et al. [1994.eng] 50-3050
- Glacier river water study in Austre Okstundbreen Basin. Eustach, W.H., et al. [1994.eng] 50-5700
- Hydrologic role of soils and ecological methods of regulating water resources. Voronkov, N.A., [1995.eng] 50-3879
- Hydrological controls on ecosystem gas exchange in an arctic landscape. Ostendorf, B., et al. [1996.eng] 50-4855
- Impacts of climate variability and change on Canadian wetlands. Woo, M.K., [1992.eng] 50-4805
- Lakes and hyporeflow in Xizang. Wang, Y.L., [1992.chi] 50-1481
- Late Quaternary lake-level record from northern Eurasia. Harrison, S.P., et al. [1996.eng] 50-4578
- Model of effects of global warming of water balance of subarctic forest ecosystems. Kellomäki, S., et al. [1996.eng] 50-4750
- New ice jam database. White, K.D., [1996.eng] 50-4410
- Paleoclimatic implications of Swedish lake-level fluctuations. Almquist-Jacobson, H., [1995.eng] 50-2716
- Reconstructed runoff from the high arctic basin Bayelva based on mass-balance measurements. Hagen, J.O., et al. [1995.eng] 50-4013
- Regional snow and water balance models. Xu, C.Y., et al. [1996.eng] 50-5835
- Role of ice in the global water cycle. Lawford, R.G., [1993.eng] 50-5079
- Reservoirs of Central Asia. Nikitin, A.M., [1991.rus] 50-2518
- Runoff modeling of a small river basin. Ambrose, B., et al. [1996.eng] 50-6586
- Scaling of input data for macroscale hydrologic modeling. Kite, G.W., [1995.eng] 50-2544
- Snow cover effect on the heat and water balance in northwestern China. Kondo, J., et al. [1996.jp] 50-6729
- Snowmelt, global warming, and water level of Lake Biwa. Ikebuchi, S., [1992.eng] 50-3029
- Soil polygenesis as a function of Quaternary climate change, northern Great Basin, USA. Chadwick, O.A., et al. [1995.eng] 50-1831
- Some results of integrated studies of the Alaarcha River basin. Tsytsein, K.V., [1973.rus] 50-428
- Spatially distributed energy balance snowmelt model. Tarboton, D.G., et al. [1995.eng] 50-2407
- Subpermafrost groundwater in Chukotka. Ruzanov, V.T., et al. [1996.rus] 50-6367
- Suprapermafrost groundwater seepage in gravelly terrain, Resolute, NWT, Canada. Woo, M.K., et al. [1995.eng] 50-668
- System for measuring moisture in the Taklimakan Desert soil. Fujitani, T., et al. [1991.jp] 50-1436

Water cement ratio

- Water balance in the Patagonia icefield. Escobar, F., et al. [1992.eng] 50-382
 Water balance in the Taklimakan Desert. Kimura, T., et al. [1991.jpn] 50-1434
 Water balance of the Alps. Chernogaeva, G.M., [1973.rus] 50-436
 Watershed hydrochemistry simulation. Ohte, N., et al. [1995.eng] 50-2410
 Winter low-flow balance of the semiarid White River, Nebraska and South Dakota. Ferrick, M.G., et al. [1995.eng] 50-1074
 Workshop on the study of ice, water and heat balance. Golubev, G.N., et al. [1972.rus] 50-519

Water cement ratio

- Concrete scaling from deicing salts. Johnston, C.D., [1995.eng] 50-2641
 Effect of de-icing salts on frost damage of high-strength concrete. Miura, T., et al. [1995.eng] 50-2639
 Effects of superplasticizers on the properties of cement mortar in cold environments. Sugiyama, M., et al. [1995.eng] 50-2648
 Freezable water in portland cement paste. Gress, D.L., et al. [1995.eng] 50-2631
 Freezing and thawing of non-air-entrained and air-entrained concrete. Li, Y., et al. [1994.eng] 50-2768
 Frost durability of high-performance concrete. Marchand, J., et al. [1995.eng] 50-2640
 Frost resistance and freezable water in high strength concrete. Nili, M., et al. [1995.eng] 50-2632
 Frost resistance of concrete canals in Turkey. Tosun, H., [1995.eng] 50-2665
 Frost resistance of surface layer of concrete with permeable sheet. Sugawara, T., et al. [1995.eng] 50-2656
 Improvement of surface layer strength of concrete by using a special curing sheet. Sugawara, T., et al. [1992.eng] 50-2760
 Low-heat high-strength superplasticized concrete. Arashima, T., et al. [1995.eng] 50-2647

Water chemistry

- ²²²Ra as a tracer for shelf water in the Arctic Ocean. Van der Loeff, M.M.R., et al. [1995.eng] 50-4564
 Analyzing water quality in the Pechora Bay of the Barents Sea. Kuznetsov, V.S., et al. [1991.rus] 50-1321
 Antarctic bottom water formation and the global cadmium to phosphorus relationship. Frew, R.D., [1995.eng] 50-752
 Antarctic planktonic biomass seasonal variations. Skerratt, J.H., et al. [1995.eng] 50-1118
 Arctic Ocean dimethyl sulfide seasonal variability. Leck, C., et al. [1996.eng] 50-4313
 Behavior of mercury in seawater to the northwest of the Antarctic Peninsula. Ruan, Z., [1989.chi] 50-6774
 Benthic-pelagic coupling in the Greenland-Norwegian Sea and its effect on the geological record. Graf, G., et al. [1995.eng] 50-747
 Biogeochemical cycling in a seasonally anoxic lake. Hamilton-Taylor, J., et al. [1996.eng] 50-5818
 Changes in trace element speciation in Kola north surface waters during snow melt. Rodushkin, I.V., et al. [1995.eng] 50-4080
 Characteristics of water quality in a forest river during the snow melting period. Tachibana, H., et al. [1994.eng] 50-4222
 Chemical characteristics of water masses in the Bransfield Strait. Wang, Y.H., et al. [1989.chi] 50-6772
 Chemical oceanography of the Arctic and its shelf seas. Anderson, L.G., [1995.eng] 50-1164
 Chemical-mineralogical characteristics of the water and sediments in the Petuniabukta tidal area. Stankowska, A., [1989.pol] 50-2888
 Chemistry of meltwater from Mount Xixia Bangma. Zhang, S., et al. [1982.chi] 50-6601
 Chlorophyll in the western Bering Sea. Mordasova, N.V., [1995.eng] 50-3605
 Comment on paper by Schaefer et al. Davies, T.D., et al. [1996.eng] 50-3647
 Composition and origin of water-soluble salts in blanket fluvial deposits in Central Yakutia. Ponomareva, O.E., [1996.rus] 50-6382
 CTD measurements in the Greenland Sea, 1993. Budéus, G., et al. [1996.eng] 50-5105
 Current problems in the Aral Sea and prospects for their solutions. Tsytarin, A.G., et al. [1991.rus] 50-731
 Current water quality in Cook Inlet, Alaska. study. University of Alaska. Environment and Natural Resources Institute, [1995.eng] 50-4400
 Damming James Bay: II. Impacts on coastal marshes. Price, J.S., et al. [1992.eng] 50-5031
 Decline of fauna in small streams in the Swedish mountain range. Olofsson, E., et al. [1995.eng] 50-4078
 Deep water distillation. Boyle, E., [1996.eng] 50-5152
 Dissolution kinetics, subglacial pathways and solute content of alpine meltwater. Collins, D.N., [1995.eng] 50-6045
 Dissolution kinetics, subglacial pathways and solute content of meltwater. Collins, D.N., [1995.eng] 50-3124
 Distribution of metals in Laptev Sea pore waters. Langner, C., [1995.eng] 50-2103
 Disturbances in the thermohaline structure of the near-surface ocean layer in the wake of an iceberg. Abaza, V.P., et al. [1995.rus] 50-4202
 DOC storage in arctic seas: the role of continental shelves. Walsh, J.J., [1995.eng] 50-1165
 Drinking water quality in small northern communities. Smith, D.W., et al. [1996.eng] 50-6154
 Dynamics of dissolved and particulate carbon in an arctic stream. Oswood, M.W., et al. [1996.eng] 50-4851
 Dynamics of the processes of mechanical and chemical denudation in the Bellsund region. Bartoszewski, S., et al. [1989.pol] 50-2883
 Effect of river-ice break-up on suspended sediment and select trace-element fluxes. Milburn, D., et al. [1994.eng] 50-5698
 Effects of acidification on plankton biomass in high mountain lakes. Engle, D., et al. [1995.eng] 50-2149
 Effects of sea ice cover on atmospheric methane over the Sea of Okhotsk. Lammers, S., et al. [1995.eng] 50-1147
 Environment and ecosystems of Novaya Zemlya: the archipelago and shelf. Matishov, G.G., ed. [1995.rus] 50-5145
 Expedition ARKTIS-XI/2 of RV *Polarstern* in 1995. Krause, G., ed. [1996.eng] 50-5104
 Freezing point depression by common salts: implications for corrosion in cold climates. Brass, G.W., [1996.eng] 50-5951
 Glacier river water study in Austre Okstindreen Basin. Theakstone, W.H., et al. [1994.eng] 50-5700
 Heat and dissolved oxygen transport processes in ice-covered lakes. Ellis, C.R., [1994.eng] 50-373
 Hydrochemical characteristics of the Kara Sea. Makkaveev, P.N., et al. [1995.eng] 50-3532
 Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995.eng] 50-3125
 Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995.eng] 50-6043
 Hydrological processes contributing to nitrogen leaching. Lepistö, A., [1996.eng] 50-5599
 Hydrological research on rivers and lakes in the Tibetan Plateau. Pöge, K.H., [1994.ger] 50-4787
 Impurities in surface meltwater from a Tian Shan glacier. Goto-Azuma, K., et al. [1995.eng] 50-613
 Integrated analysis of oil hydrocarbons in a marine environment and in the fat of animals. Khesina, A.I.A., et al. [1991.rus] 50-1316
 Isotope analysis of Arctic Ocean ice algae primary productivity. Hobson, K.A., et al. [1995.eng] 50-3359
 Isotopic analysis of groundwater in the Taklimakan Desert. Ushiki, H., et al. [1991.jpn] 50-1435
 Lakes and marshes in Hokkaido. Sakata, Y., ed. et al. [1990.jpn] 50-2292
 Laptev Sea organic carbon surface sediments. Stein, R., et al. [1995.eng] 50-2097
 Leaching of organic carbon and nitrogen from forested catchments. Kortelainen, P., et al. [1994.eng] 50-3221
 Material interactions when sampling groundwater. Parker, L.V., [1995.eng] 50-2456
 Measuring ocean parameters at extremes of temperature. Neal, G.W., et al. [1994.eng] 50-5180
 Methane plumes near Bear Island, Barents Sea. Lammers, S., et al. [1995.eng] 50-748
 Method to prevent weld zone corrosion in offshore structures. DeGeer, D.D., et al. [1991.eng] 50-1726
 Microfaunal response to fertilization of an arctic tundra stream. Rublee, P.A., et al. [1995.eng] 50-870
 Nitrate transport in snowmelt in the Green Mountains, northern Vermont. Daly, D.M., [1995.eng] 50-3128
 Nutrient cycle in the Bransfield Strait. Wang, Y.H., et al. [1989.chi] 50-6773
 Nutrients in the Aral Sea in winter. Tsytarin, A.G., [1995.eng] 50-5481
 Ocean thermohaline circulations compared. Yu, E.F., et al. [1996.eng] 50-5153
 Odor removal processes for ice-covered river runoff. Hudey, S.E., et al. [1995.eng] 50-1524
 Organic carbon of the Arctic Ocean. Wheeler, P.A., et al. [1996.eng] 50-4212
 Overview of environmental and hydrogeologic conditions at Bethel, Alaska. Dorava, J.M., et al. [1995.eng] 50-2484
 Overview of environmental and hydrogeologic conditions at Bettles Field, Alaska. Cowan, J.R., [1995.eng] 50-2492
 Overview of environmental and hydrogeologic conditions at Chandalar Lake, Alaska. Cowan, J.R., [1995.eng] 50-2497
 Overview of environmental and hydrogeologic conditions at Cold Bay, Alaska. Rice, W.A., et al. [1995.eng] 50-2489
 Overview of environmental and hydrogeologic conditions at Farewell Bend, Alaska. Dorava, J.M., et al. [1995.eng] 50-2485
 Overview of environmental and hydrogeologic conditions at Fort Yukon, Alaska. Nakanishi, A.S., et al. [1994.eng] 50-2482
 Overview of environmental and hydrogeologic conditions at Galena, Alaska. Nakanishi, A.S., et al. [1994.eng] 50-2481
 Overview of environmental and hydrogeologic conditions at Hinchinbrook Island, Alaska. Dorava, J.M., et al. [1995.eng] 50-2486
 Overview of environmental and hydrogeologic conditions at Iliamna, Alaska. Hall, J.D., [1995.eng] 50-2495
 Overview of environmental and hydrogeologic conditions at Nome, Alaska. Dorava, J.M., [1995.eng] 50-2488
 Overview of environmental and hydrogeologic conditions at Puntilla Lake, Alaska. Dorava, J.M., et al. [1995.eng] 50-2487
 Overview of environmental and hydrogeologic conditions at Sitka, Alaska. Hogan, E.V., [1995.eng] 50-2494
 Overview of environmental and hydrogeologic conditions at Tanana, Alaska. Nakanishi, A.S., et al. [1994.eng] 50-2483
 Overview of environmental and hydrogeologic conditions at Unalakleet, Alaska. Dorava, J.M., [1995.eng] 50-2496
 Overview of environmental and hydrogeologic conditions at Wrangell, Alaska. Hogan, E.V., [1995.eng] 50-2493

Water content

- Overview of environmental and hydrogeologic conditions near Big Delta, Alaska. Nelson, G.L., [1995.eng] 50-2490
 Overview of environmental and hydrogeologic conditions near Petersburg, Alaska. Hogan, E.V., [1995.eng] 50-2491
 Paleoclimatological implications of lacustrine ostracod ecology. Heaton, T.H.E., et al. [1995.eng] 50-2859
 Paleoclimatological study of fire-induced lake water acidity variations. Korhola, A., et al. [1996.eng] 50-5020
 Patterns of early lake ontogeny in Glacier Bay as inferred from diatom assemblages. Fritz, S.C., et al. [1995.eng] 50-3750
 Performance of lagoons experiencing seasonal ice cover. Price, D.S., et al. [1995.eng] 50-2124
 Periphytic diatom assemblages from high arctic ponds. Douglas, M.S.V., et al. [1995.eng] 50-1460
 Phosphorus in river runoff. Savenko, V.S., et al. [1995.rus] 50-4122
 Physicochemical properties and partitioning of organochlorine compounds in air and water. Falconer, R.L.M., [1994.eng] 50-688
 Remote monitoring and technical support for drinking water systems in remote communities. Smith, D.W., et al. [1996.eng] 50-6152
 Report on acidification in the arctic countries. Nenonen, M., [1991.eng] 50-3418
 Report on heavy metals. Melnikov, S.A., [1991.eng] 50-3419
 Response of leaching from mire ecosystems to changing climate. Sallantausta, T., [1994.eng] 50-3222
 Reservoirs of Central Asia. Nikitin, A.M., [1991.rus] 50-2518
 Saline-lake resources on the Qinghai-Xizang Plateau and their developed prospect. Zheng, M.P., [1992.chi] 50-1486
 Salt lakes in Xizang. Zheng, X.Y., et al. [1988.chi] 50-1848
 Salt lakes of Inner Mongolia. Zheng, X.Y., et al. [1992.chi] 50-1849
 Salt lakes of Qaidam Basin. Zhang, P.X., et al. [1987.chi] 50-1845
 Sea-air exchange of sulfur, phosphorus, and nitrogen in marine aerosols over the Antarctic Peninsula waters. Chen, L.Q., et al. [1989.chi] 50-6775
 Seasonal variability in high mountain lake water chemistry. Wögrath, S., et al. [1995.eng] 50-4077
 Seasonal variations in antarctic sea ice brine chemistry. Gleitz, M., et al. [1995.eng] 50-1117
 Seasonal variations of stream water chemistry in Spitsbergen. Potschin, M., et al. [1994.ger] 50-1587
 Simple field screening method for white phosphorus (P₄) in sediment. Walsh, M.E., et al. [1995.eng] 50-2328
 Snowmelt water resources from aquifers. Kimura, S., [1988.jpn] 50-2285
 Solid phase sedimentation in the Barents Sea. Hulth, S., et al. [1996.eng] 50-6723
 Soluble salts and heavy hydrogen in Bosten Lake. Huang, Z.W., et al. [1991.chi] 50-5134
 Sources and distribution of sulfate in the Pacific atmosphere. Chen, L.Q., et al. [1989.chi] 50-6786
 Stable carbon isotope ratios in the waters of the Laptev Sea/Sea 94. Erlénkeuser, H., et al. [1995.eng] 50-2082
 Streamwater quality variations in a Colorado alpine environment. Caine, N., [1995.eng] 50-4189
 Study of the composition of hydrates in natural gas with highly mineralized water. Larionov, V.R., et al. [1992.rus] 50-814
 Surface water chemistry and hydrology of a small arctic drainage basin. Everett, K.R., et al. [1996.eng] 50-4847
 Transfer coefficients of radon-222 across the sea surface. Kholuisli, S.N., et al. [1995.rus] 50-4120
 Ultraviolet radiation effects on arctic lake water organic chemistry. Scully, N.M., et al. [1996.eng] 50-5820
 Variability in nutrient concentrations around Elephant Island, Antarctica, during 1991-1993. Silva S., N., et al. [1995.eng] 50-941
 Vegetation and ecology of tropical mires in the high Andes of northern Chile. Rühssatz, B., [1995.ger] 50-4530
 Wastewater treatment through atomizing freeze-crystallization. White, J.A., et al. [1995.eng] 50-3117
 Water chemistry and periphyton in an alpine wetland. Toetz, D., [1995.eng] 50-4161
- Water content**
 Antarctic atmospheric moisture values obtained from microwave radiometers. Wada, M., et al. [1992.eng] 50-3568
 Chemical-mineralogical characteristics of the water and sediments in the Petuniabukta tidal area. Stankowska, A., [1989.pol] 50-2888
 Detection of possible aircraft icing in clouds by passive-active radars. Tarabukin, I.A., et al. [1992.eng] 50-3569
 Determination of liquid water altitudes using combined remote sensors. Politovich, M.K., et al. [1995.eng] 50-1414
 Dielectric moisture measurement of frozen ground. Frolov, A.D., [1996.rus] 50-6835
 Dielectric property of snow. Kuroiwa, D., [1953.eng] 50-3789
 Distribution of water in hailstones. Chylek, P., et al. [1984.eng] 50-4495
 Effects of hydrology on the thermal conditions of the active layer. Woo, M.K., et al. [1994.eng] 50-5702
 Examining the use of time domain reflectometry for measuring liquid water content in frozen soil. Spaans, E.J.A., et al. [1995.eng] 50-2543
 Forecasting service life of frost-penetrated concrete. Fagerlund, G., [1996.eng] 50-4788
 Freeze-thaw effects of fine-grained soil permeability. Eigenbrod, K.D., [1996.eng] 50-6749
 Ice content retrieval from clouds using Doppler radar. Sauvageot, H., [1996.eng] 50-2772

Water erosion

- Icing conditions encountered by a research aircraft. Sand, W.R., et al. [1984,eng] 50-4493
- Intercomparison of mesoscale forecasts of aircraft icing using SSM/I retrievals. Tremblay, A., et al. [1996,eng] 50-4524
- Mixed-phase cloud scheme based on a single prognostic equation. Tremblay, A., et al. [1996,eng] 50-6665
- Moisture profiling of the cloudy winter atmosphere using combined remote sensors. Stankov, B.B., et al. [1995,eng] 50-158
- Physical characteristics of arctic stratus clouds. Tsay, S.C., et al. [1984,eng] 50-4922
- Physical interpretation of results from the HIPLEX-1 experiment. Cooper, W.A., et al. [1984,eng] 50-4920
- Production and depletion of supercooled liquid water in a Colorado winter storm. Politovich, M.K., et al. [1995,eng] 50-3560
- Radar and radiation properties of ice clouds. Atlas, D., et al. [1995,eng] 50-1246
- Radiometric observations of supercooled liquid water within a split front over Sierra Nevada. Heggli, M.F., et al. [1985,eng] 50-4972
- Radiosonde examination of synoptical scale wind/cloud dynamics. Mace, G.G., et al. [1995,eng] 50-3256
- Relationship between water content and frost tolerance in shoots of hardwood seedlings. Calmé, S., et al. [1996,eng] 50-3296
- Response of a research aircraft to icing and evaluation of severity indices. Politovich, M.K., [1996,eng] 50-4406
- Role of spaceborne millimeter-wave radar in the global monitoring of ice cloud. Brown, P.R.A., et al. [1995,eng] 50-1247
- Satellite measurements of cloud microphysical properties. Poix, C., et al. [1996,eng] 50-4571
- Scanning electron microscopy of free water in frozen plant tissues. Yaklich, R.W., et al. [1996,eng] 50-5209
- Seasonal solute movement in continuous permafrost. Boike, J., et al. [1995,eng] 50-2093
- Seeding implications of ice crystal growth in the turbulent boundary layer. Levy, G., et al. [1984,eng] 50-4496
- Simulation of soil moisture variations reflecting the hydrological cycle. Akinremi, O.O., et al. [1996,eng] 50-5918
- Soil moisture content and water potential determined by filter paper. Waters, T.J., [1980,eng] 50-2449
- Some results from geocoding and calibration of ERS-1 SAR FD images in mountainous areas. Johnsen, H., et al. [1995,eng] 50-3717
- Spaceborne radiometric determination of cloud structure. Pierdicca, N., et al. [1996,eng] 50-5683
- Statistical analysis of Thayer Hill Road heave data. Harr, M.E., et al. [1995,eng] 50-2030
- Temperature dependence of static charging in ice growing by riming. Avila, E.E., et al. [1995,eng] 50-3004
- Theoretical aspects of modeling backscattering by cirrus ice particles at millimeter wavelengths. Schneider, T.L., et al. [1995,eng] 50-3261
- Thunderstorm electrification analysis: the dependence on the temperature-LWC diagram. Scavuzzo, C.M., et al. [1996,eng] 50-3342
- Use of SAR satellite imagery to measure active layer moisture contents in arctic Alaska. Kane, D.L., et al. [1994,eng] 50-5695
- What you need to know about prewetting deicers. Mergenmeier, A., [1995,eng] 50-3857
- See [also]: Snow water content; Unfrozen water content
- Water erosion**
- Bibliography on the hydrology of the Himalaya-Karakoram region. Young, G.J., et al. [1996,eng] 50-5273
- Catastrophic drainage from ice-dammed glacial Lake Assiniboine. Wolfe, B., et al. [1995,eng] 50-4881
- Channel erosion during flooding of alpine streams. Becht, M., [1996,ger] 50-5251
- Danube River fluvial geomorphodynamics during the Quaternary. Buch, M.W., et al. [1995,eng] 50-2749
- Development of the middle and lower course of the Weser River during the Late Pleistocene. Meinke, K., [1995,eng] 50-2746
- Device for strengthening ground using buried components. Ostukov, B.S., et al. [1992,rus] 50-2053
- Discharge and fluvial sediment transport in a semi-arid Andean catchment. Barsch, D., et al. [1994,eng] 50-1544
- Erosion by water flowing under ice. Tietze, W., [1961,ger] 50-5747
- Experimental studies on the resistance of frozen ground to maximum thermo-erosion washout. Pendin, V.V., et al. [1996,rus] 50-6407
- Fluvial dynamics in the periglacial belt of the central Austrian Alps. Höfner, T., [1995,eng] 50-2751
- Fluvial sediment transfer in the Central Alps. Höfner, T., [1993,ger] 50-3335
- Forecast of rain erosion of tundra soils on the Yamal Peninsula. Grigor'ev, V.I.A., et al. [1996,eng] 50-5448
- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., [1995,eng] 50-2480
- Ice-cover influence on flow and bedload transport in dune-bed channels. Smith, B.T., et al. [1995,eng] 50-4039
- Identification of elements of fluvio-glacial shapes characteristic of glacial outbursts. Robitaille, A., et al. [1995,fre] 50-5041
- Management of winter soil temperatures to control streambank erosion. Bohn, C., [1989,eng] 50-2464
- Marine record of the Russell Fjord outburst flood, Alaska. U.S.A. Cowan, E.A., et al. [1996,eng] 50-6260
- Predicting sediment load of Swiss rivers. Hunziker, R.P., [1995,ger] 50-4173

- Recent fluvial sediment budgets in glacial and periglacial environments, NW Spitsbergen. Barsch, D., et al. [1994,eng] 50-1584
- Restoration of Kakabeka Falls, Ontario, Canada. Grieve, R.G., et al. [1992,eng] 50-2763
- Role of sediment transport in the mechanics of jökulhlaups. Fowler, A.C., et al. [1996,eng] 50-6269
- Seasonal freezing and soil erosion during snowmelt. Demidov, V.V., et al. [1995,eng] 50-2714
- Sediment discharge from an Alaskan surging glacier. Merrand, Y., et al. [1996,eng] 50-6266
- Sediment transport and discharge in a high arctic catchment (Liefdefjorden, NW Spitsbergen). Barsch, D., et al. [1994,eng] 50-1545
- Seismic investigation of glacial tunnel channels. Pugin, A., et al. [1996,eng] 50-6257
- Slope erosion processes in the Alps. Becht, M., [1995,eng] 50-4829
- Studies on Holocene fluvial geomorphodynamics on the upper Oberweser. Thomas, J., [1993,ger] 50-2769
- Tunnel valley genesis. Cofaigh, C.O., [1996,eng] 50-5012
- Valley bottoms in the late Quaternary. Schirmer, W., [1995,eng] 50-2748
- Wutach gorge in SW Germany: late Würmian (periglacial) downcutting versus Holocene processes. Einsele, G., et al. [1995,eng] 50-2750
- Water films**
- Aerosol uptake by model polar stratospheric cloud surfaces. Graham, J.D., et al. [1996,eng] 50-4144
- Capillary bonding of wet surfaces and adhesion of skis to ice. Colbeck, S.C., [1996,eng] 50-6038
- Cavities and the effective pressure between abrading clasts and bedrock. Hindmarsh, R.C.A., [1996,eng] 50-6237
- Dispersion-force effects in interfacial premelting of ice. Wilen, L.A., et al. [1995,eng] 50-2134
- Electric field effects on growing ice surface force curves. Slaughterbeck, C.R., et al. [1996,eng] 50-5939
- Experimental investigations of the behavior of ice at the contact zone. Timco, G.W., et al. [1995,eng] 50-3807
- Experimental study on the melting transition at interface between ice crystal and substrate. Furukawa, Y., et al. [1994,eng] 50-3072
- Freeze concentration by layer crystallization. Flesland, O., [1995,eng] 50-5943
- Freshwater spongy spray icing model with surficial structure. Blackmore, R.Z., et al. [1996,eng] 50-5335
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1995,eng] 50-2954
- Influence of the surface liquid film on cylinder icing under marine conditions. Lozowski, E.P., et al. [1996,eng] 50-5161
- Phase transitions of water films adsorbed on pyrogenic silica. Bogdan, A., et al. [1996,eng] 50-2021
- Premelting of ice in porous silica glass. Ishizaki, T., et al. [1996,eng] 50-6759
- Pressure melting and ice skating. Colbeck, S.C., [1995,eng] 50-408
- Study of H₂O contamination on a cooled optical surface. Guo, Q., et al. [1995,eng] 50-6527
- Thickness determination of a water film on dye-doped ice by fluorescence spectroscopy. Strausky, H., et al. [1996,eng] 50-3967
- Vapor deposited water ice: astrophysical implications. Sack, N.J., [1992,eng] 50-697
- Water flow**
- Analysis of ice-formation in a stenotic tube. Suh, J.S., et al. [1996,eng] 50-6460
- Augmentation or suppression of ice accumulation on a cold flat-plate in water-flow channel. Hirata, T., et al. [1996,eng] 50-6462
- Comments on the use of chemically based mixing models in glacier hydrology. Sharp, M., et al. [1995,eng] 50-447
- Development and stability of preferential flow paths in a layered snowpack. Schneebeli, M., [1995,eng] 50-2402
- Distribution, origin, and hydraulic influence of fractures in a clay-rich glacial deposit. McKay, L.D., et al. [1995,eng] 50-3254
- Effect of snow hydrology on glacial runoff. Fountain, A.G., [1996,eng] 50-6084
- Effects of capillary discontinuities on water flow and water retention in layered snowcovers. Jordan, R., [1995,eng] 50-2472
- Freeze closing of a convectively cooled parallel plate channel. Lipnicki, Z., et al. [1996,eng] 50-6461
- Groundwater flow beneath ice sheets: part I—large scale patterns. Boulton, G.S., et al. [1995,eng] 50-2128
- Ice jamming in upper Niagara River: processes and plan of study. Crissman, R.D., et al. [1995,eng] 50-362
- Impact crater lakes on Mars. Newsom, H.E., et al. [1996,eng] 50-5777
- Incorporation of a drainage layer and infiltration into FROST. Abdel-Salam, A., et al. [1993,eng] 50-6050
- Injection profiling in the Kuparuk River Field, Alaska. Scott, H.D., et al. [1991,eng] 50-1741
- Interaction between subglacial sediment and meltwater. Collins, D.N., [1996,eng] 50-6265
- Interface location and flow visualization in water-ice systems. Elkouh, N., et al. [1996,eng] 50-6459
- Jökulhlaup from Katla in 1918. Tómasson, H., [1996,eng] 50-6268

- Maximum flow rate of floating snow in an open channel. Fukushima, Y., [1995,jpn] 50-3508
- Numerical modelling of ice jam resistance to main channel flow. Saadé, R.G., et al. [1995,eng] 50-6206
- Oscillatory convection during melting of ice in a vertical rectangular enclosure. Ho, C.J., et al. [1996,eng] 50-6454
- Pneumatics and small pumps in cold region water distribution systems. Mauser, M.W., [1995,eng] 50-5667
- Saturated cemented porous material permeability during freezing. Kralj, B., et al. [1996,eng] 50-5024
- Stability of water flow in glaciers. Szilder, K., et al. [1996,eng] 50-6436
- Subpermafrost groundwater, western Svalbard. Haldorsen, S., et al. [1994,eng] 50-5697
- Three dimensional convective flow around a melting ice cylinder. Oosthuizen, P.H., et al. [1996,eng] 50-6453
- Tracer experiments to determine subglacial pressurized flow in Storöglaciären. Kohler, J., [1995,eng] 50-445
- Transient hydrogeological controls on the chemistry of a seepage lake. Krabbenhoft, D.P., et al. [1995,eng] 50-2730
- Transit time of meltwaters in alpine glaciers. Collins, D.N., [1995,eng] 50-2429
- Water freezing**
- See [also]: Ice formation
- Water ice interface**
- See [also]: Ice water interface
- Water intakes**
- Field measurements of ice loads: thermal loads on hydro-electric structures. Comfort, G., et al. [1994,eng] 50-853
- Ice jamming in upper Niagara River: processes and plan of study. Crissman, R.D., et al. [1995,eng] 50-362
- Ice passage. [1996,eng] 50-4621
- Ice problems in planning and operation of hydro power plants. Sharma, H.R., [1993,eng] 50-235
- Ice protection for water intakes of the Perry Nuclear Power Plant. Wahanik, R.J., et al. [1976,eng] 50-884
- Water jets**
- See [also]: Hydraulic jets
- Water level**
- 1991 ice jamming along the Saint John River: a case study. Beltaos, S., et al. [1996,eng] 50-5809
- Calculating vertical ice loads on vertical structures at variable water levels. Nishihata, A., et al. [1996,jpn] 50-5879
- Climate change and water resources in Vuoksi watershed. Vehviläinen, B., et al. [1994,eng] 50-3195
- Climate change in the recent evolution of a pro-glacial lake. Webster, J., et al. [1996,eng] 50-3704
- Danger of lake burst flooding from a Himalayan glacial lake. Watanabe, T., et al. [1995,eng] 50-3338
- Differences in carbon accumulation of two cut-over peatlands in Finland. Roderfeld, H., et al. [1994,eng] 50-3226
- Effect of water-table position on frost heave. Burns, J., [1977,eng] 50-2326
- Evaporation from a small lake in the continental Arctic using multiple methods. Gibson, J.J., et al. [1994,eng] 50-5694
- Frontal signals east of Iceland from the GEOSAT altimeter. Robinson, A.R., et al. [1989,eng] 50-4707
- Glaciers and lakes in the Tianshan Mountains as indicators of climatic change. Hu, R.J., et al. [1994,eng] 50-3998
- Holocene subalpine lake fluctuations in France. Magny, M., [1992,eng] 50-2560
- Ice jam flooding on the Missouri River near Williston, North Dakota. Wuebben, J.L., et al. [1995,eng] 50-2707
- Jökulhlaup from Katla in 1918. Tómasson, H., [1996,eng] 50-6268
- Lakes and hydropower in Xizang. Wang, Y.L., [1992,chi] 50-1481
- Late glacial sedimentation and history of the Lake Nipigon Basin, Ontario. Lemoine, R.M., et al. [1995,eng] 50-4880
- Late Pleistocene-Holocene diatom record and paleoenvironment of Bangong Lake, Western Tibet. Fan, H., et al. [1994,eng] 50-1532
- Modeling the effects of climate change on lakes. Frisk, T., et al. [1994,eng] 50-3198
- Numerical modelling of ice jam resistance to main channel flow. Saadé, R.G., et al. [1995,eng] 50-6206
- Observations of 'freezing-induced redistribution' in soil lysimeters. Butler, A.P., et al. [1996,eng] 50-6082
- Open-water and ice-jam flooding of a northern delta. Prowse, T.D., et al. [1994,eng] 50-5699
- Paleoclimatic implications of Swedish lake-level fluctuations. Almquist-Jacobson, H., [1995,eng] 50-2716
- Paleoclimatic interpretation of topographic variations in Tibetan lake shorelines. Avouac, J.P., et al. [1996,eng] 50-5094
- Paleohydrological changes in French mountains due to paleoclimatic changes. Magny, M., [1995,eng] 50-5038
- Phreatic water surface profiles along ice jams—an experimental study. Saadé, R.G., et al. [1996,eng] 50-6693
- Pleistocene geomorphology of Qinghai Lake, China. Nakao, K., et al. [1995,eng] 50-6717
- Postglacial development of river valleys in the middle part of the northern slope of Pomerania. Florek, W., [1991,pol] 50-4940
- Probability distributions for peak stage on rivers affected by ice jams. Tuthill, A.M., et al. [1996,eng] 50-4754
- Qinghai Lake paleohydrological variations due to climatic changes. Nakao, K., et al. [1995,eng] 50-6718
- Satellite SAR identification of lake water resources on the North Slope. Jeffries, M.O., et al. [1996,eng] 50-6177
- Simulation and analysis of upper Niagara River ice-jam conditions. Wang, D.S., et al. [1995,eng] 50-356

Water pipelines

- Snowmelt, global warming, and water level of Lake Biwa. Ikebuchi, S., [1992.eng] 50-3029
- Statistical evaluation of glacier boreholes as indicators of basal drainage systems. Smart, C.C., [1996.eng] 50-6089
- Subpermafrost groundwater in Chukotka. Ruzanov, V.T., et al., [1996.rus] 50-6367
- Temperature evolution of a chemically stratified lake. Spiegel, R.H., et al., [1996.eng] 50-6333
- Tree-ring dating of extreme water level events at Lake Bienville, subarctic Québec, Canada. Lepage, H., et al., [1996.eng] 50-4339
- Water resources data for Alaska, water year 1994. Bigelow, B.B., et al., [1995.eng] 50-2169
- Younger Dryas end moraines in Finland and NW Russia. Rainio, H., et al., [1995.eng] 50-514
- See [also]: Sea level; Water table
- Water pipelines**
- Cold regions utilities monograph. Third edition. Smith, D.W., ed., et al., [1996.eng] 50-6424
- Electric current heater for pipes. Vainio, U., [1990.eng] 50-2342
- Experiments of shallow-buried water supply pipes. Meng, F.J., [1989.chi] 50-1386
- Hydraulic conveying of snow and ice, (3): measurement of pipe flow. Shirakashi, M., et al., [1996.jpj] 50-4934
- Hydraulic conveying of snow and ice, part 2. Kitahara, T., [1995.jpj] 50-996
- Hydraulic transport of snow; (4): snow overload detector for snow/water mixing tank. Murayama, K., et al., [1996.jpj] 50-4926
- On the estimation of frost loads. Rajani, B., et al., [1996.eng] 50-6751
- Pitorifices and small pumps in cold region water distribution systems. Mauser, M.W., [1995.eng] 50-5667
- Protecting water meters from freezing. Kotry, J., [1992.eng] 50-3559
- Review of dynamical studies on hydraulic transportation of snow. Umemura, T., [1996.jpj] 50-6731
- Solidification of water in a buried pipe. Negiz, A., et al., [1995.eng] 50-1967
- Using district heating pipes for freeze protection of sewer pipes. Reeve, H.E., et al., [1996.eng] 50-6440
- Water pipes**
- Corrosion in Anchorage homes and buildings. Hicks, R.J., [1996.eng] 50-5953
- Handbook for field evaluation of the 600 ROWPU winterization kit. U.S. Army Cold Regions Research and Engineering Laboratory, [1990.eng] 50-6048
- Heat flux monitoring during cryogenic pipe freezing: a case study. Tavner, A.C.R., et al., [1996.eng] 50-5477
- Investigation of the stress development during cryogenic pipe freezing. Keary, A.C., et al., [1996.eng] 50-6438
- Water pollution**
- Adhesion of oil to plastics, stainless steel and ice. Liukkonen, S., et al., [1995.eng] 50-5716
- Airborne laser fluorosensor to detect oil spills. Brown, C.E., et al., [1996.eng] 50-5564
- Alyeska/SERVS technological innovations for oil spill response. Hillman, S.O., [1996.eng] 50-5552
- Analysis of the ecological status in the Ladoga Lake basin. Rumiantsev, V.A., et al., [1992.rus] 50-385
- Analysis of the Komi-Neft pipeline oil. Lambert, P., et al., [1995.eng] 50-5734
- Analyzing the state of Ural tributaries of the Ob' River according to zoobenthos indicators. Sharapova, T.A., et al., [1994.rus] 50-283
- Analyzing water quality in the Pechora Bay of the Barents Sea. Kuznetsov, V.S., et al., [1991.rus] 50-1321
- Anthropogenic factors in the dynamics of shelf and the Barents Sea coastal ecosystems. Matishov, G.G., et al., [1993.eng] 50-2190
- Arctic marine mammals as integrators and indicators of mercury in the Arctic. Wagemann, R., et al., [1995.eng] 50-881
- Arctic radioactive contamination from former Soviet Union sources. Bradley, D.J., [1992.eng] 50-5484
- Arctic wasteland: a perspective on arctic pollution. Davis, N., [1996.eng] 50-5838
- Arsenic pollutants in Pechora Sea sediments. Loring, D.H., et al., [1995.eng] 50-1829
- Barents Sea biomass reaction to gas condensate pollution. Gorbacheva, E.A., et al., [1996.eng] 50-6581
- Basis for statistical inferences in coastal injury assessment of Exxon Valdez oil spill. McDonald, L.L., et al., [1995.eng] 50-3922
- Behavior of mercury in seawater to the northwest of the Antarctic Peninsula. Ruan, Z., [1989.chi] 50-6774
- Benthic sediment hydrocarbon sources following the Exxon Valdez oil spill. Page, D.S., et al., [1995.eng] 50-3915
- Biological remediation of shoreline oily waste from marine spills. Labrie, P., et al., [1990.eng] 50-474
- Bioreactor with liquid suspensions of *Alcaligenes eutrophus* JMP134. McKay, D.J., et al., [1995.eng] 50-5660
- Cations within glacier ice, snow and river water at Xidatan coal mine. Huang, C.L., et al., [1995.chi] 50-5641
- Changes in trace element speciation in Kola north surface waters during snow melt. Rodushkin, I.V., et al., [1995.eng] 50-4080
- Chaudiere Island proposed snow dumping facility: an environmental appraisal. Lopez, K., et al., [1981.eng] 50-1200

- Chemical and toxicological evaluation of water quality following the Exxon Valdez oil spill. Neff, J.M., et al., [1995.eng] 50-3917
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al., [1995.eng] 50-5717
- Chemical correlates of Hg and methyl-Hg in northern Wisconsin lake waters under ice-cover. Watras, C.J., et al., [1995.eng] 50-2125
- Chernobyl fallout in Bering Sea sediments. Kusakabe, M., et al., [1988.eng] 50-4635
- Cleansing role of clay-oil flocculation in shoreline sediments following an oil spill. Bragg, J.R., et al., [1995.eng] 50-3918
- Cleanup assessment of the pipeline oil spill on the Kova River. Sienkiewicz, A.M., et al., [1996.eng] 50-5570
- Coastal environments of the western Kara and eastern Barents Seas. Pihman, S.L., et al., [1995.eng] 50-4558
- Comment on paper by Schaefer et al. Davies, T.D., et al., [1996.eng] 50-3647
- Comparative study of bottom sediment pollution in Lianyungang and Vladivostok harbors. Tkalin, A.V., [1995.eng] 50-5063
- Comparison of shoreline assessment study designs used for the Exxon Valdez oil spill. Gilfillan, E.S., et al., [1996.eng] 50-5554
- Comprehensive review of oil spill combustion studies. Wala-valkar, A.Y., et al., [1996.eng] 50-5559
- Contained controlled burning of spilled oil during the Exxon Valdez oil spill. Allen, A.A., [1990.eng] 50-471
- Contaminants in the arctic marine environment: priorities for protection. Macdonald, R.W., et al., [1996.eng] 50-5574
- Contamination of groundwaters. Adriano, D.C., ed., et al., [1994.eng] 50-5515
- Current water quality in Cook Inlet, Alaska, study. University of Alaska. Environment and Natural Resources Institute, [1995.eng] 50-4400
- Decline of fauna in small streams in the Swedish mountain range. Olofsson, E., et al., [1995.eng] 50-4078
- Developing the U.S. Coast Guard's Airborne Dispersant Delivery System capability. Bleicher, D., et al., [1995.eng] 50-5722
- Development of a field method for quantifying ammonium picrate and picric acid in soil and water. Thorne, P.G., et al., [1995.eng] 50-1152
- Dispersal of metal-contaminated sediments in an arctic river. Sear, D., et al., [1996.eng] 50-6516
- Distribution of cesium-137 in Bering and Chukchi Sea marine sediments. Cooper, L.W., et al., [1995.eng] 50-5062
- Distribution of pesticide residues in arctic coastal ecosystems. Bright, D.A., et al., [1995.eng] 50-4747
- Dredging Eagle River Flats: remediation study in an active impact area. Walsh, M.R., [1996.eng] 50-5913
- Drinking water quality in small northern communities. Smith, D.W., et al., [1996.eng] 50-6154
- Ecological problems in the cryogenic-hydrogeological conditions in northwestern Siberia. Petrova, R.G., et al., [1996.rus] 50-6847
- Ecological safety of navigation on the Northern Sea Route. Semanov, G.N., [1996.eng] 50-4437
- Effect of acid snow and acid rain on the soils and others in Niigata Prefecture. Taguchi, Y., et al., [1996.jpj] 50-5801
- Effect of oil pollution on the ecosystems of Kola Bay. Sakulina, M.V., et al., [1991.rus] 50-1320
- Effects of deicing salt on vegetation along highways in Sweden. Bäckman, L., et al., [1995.eng] 50-4602
- Effects of fire in the taiga on the environment. Lötters, F.B., et al., [1971.eng] 50-3244
- Effects of the Exxon Valdez oil spill on subtidal sediments in bays. Page, D.S., et al., [1996.eng] 50-5563
- Emulsion breaking igniters: recent developments in oil spill igniter concepts. Guénette, C.C., et al., [1995.eng] 50-5729
- Enhancing the encounter rate of a prototype weir skimmer. Delozier, M.J., [1995.eng] 50-5724
- Environmental effects of the Antonio Gramsci oil spill in 1987. Hirvi, J.P., [1990.eng] 50-469
- Environmental factors influencing the biodegradation of petroleum hydrocarbons in cold seawater. Siron, R., et al., [1995.eng] 50-651
- Environmental impact of offshore oil exploration in the Arctic. Mosbech, A., et al., [1995.eng] 50-2964
- Evolution of the ecosystem and biogeography of seas in the European Arctic. Pavlov, D.S., ed., [1994.rus] 50-3088
- Exxon Valdez Oil Spill Restoration Plan. Final environmental impact statement. Exxon Valdez Oil Spill Trustee Council, Anchorage, AK, [1994.eng] 50-369
- Exxon Valdez Oil Spill Restoration Plan. Exxon Valdez Oil Spill Trustee Council, Anchorage, AK, [1994.eng] 50-398
- Fate of oil determinations under arctic conditions; the Komi pipeline oil spill experience. Nadeau, R.J., et al., [1995.eng] 50-5732
- Fingerprinting hydrocarbons in the biological resources of the Exxon Valdez spill area. Bence, A.E., et al., [1995.eng] 50-3916
- Freezing purification system and method for decontamination and desalination of water. Hussein, A.A., et al., [1995.eng] 50-3456
- Geochemical analyses of Exxon Valdez oil spill. Bence, A.E., et al., [1996.eng] 50-6339
- Geological specifics in the natural dynamics of the subarctic cryolithozone. Oberman, N.G., [1996.rus] 50-6850
- Hot ice could contaminate fish. Edwards, R., [1996.eng] 50-4205

- Hydrogeochemistry of Fraser River, British Columbia. Cameron, E.M., [1996.eng] 50-5815
- Hydrological processes contributing to nitrogen leaching. Lepistö, A., [1996.eng] 50-5599
- Ice drift and oil spill hazard off Sakhalin. Kalinin, E.N., et al., [1996.eng] 50-5900
- Improved airborne laser fluorosensor for assessment of marine pollution. Dick, R., et al., [1990.eng] 50-472
- Impurities in surface meltwater from a Tian Shan glacier. Goto-Azuma, K., et al., [1995.eng] 50-613
- In situ bioremediation in arctic Canada. Carss, J.G., et al., [1994.eng] 50-1472
- In situ remediation of hydrocarbon contaminated soil and groundwater. Gould, T.F., et al., [1996.eng] 50-6116
- In-situ burning of Alaskan oils and emulsions. Buist, I., et al., [1996.eng] 50-5558
- In-situ burning of crude oil and emulsions in broken ice. Guénette, C.C., et al., [1996.eng] 50-5557
- In-situ burning of uncontained crude oil and emulsions. Guénette, C.C., et al., [1995.eng] 50-5728
- Integrated analysis of oil hydrocarbons in a marine environment and in the fat of animals. Khesina, A.I.A., et al., [1991.rus] 50-1316
- Integrated approach to shoreline mapping for spill response planning. Owens, E.H., et al., [1996.eng] 50-5561
- Interactive oil spill trajectory model for Alaskan arctic waters. Britch, R.P., et al., [1990.eng] 50-468
- International gaging station established on the Alsek River. Deschu, N., et al., [1995.eng] 50-3752
- Investigation of proposed snow dump facility. Gore & Storrie Limited, Ottawa, Ontario, [1983.eng] 50-1197
- Komi oil spill—an assessment by a multi-national team. Devens, P.K., [1995.eng] 50-5731
- Labile dissolved forms of heavy metals in the Kara Sea waters. Kravtsov, V.A., et al., [1995.eng] 50-3534
- Laboratory tests of oil fate in cold water, ice and waves. Timco, G.W., et al., [1995.eng] 50-51
- Lake acidification during mountain snowmelt. Stoddard, J.L., [1995.eng] 50-4076
- Lakes and marshes in Hokkaido. Sakata, Y., ed., et al., [1990.jpj] 50-2292
- Laptev Sea System: Expeditions in 1994. Kassens, H., ed., [1995.eng] 50-3156
- Large volume oil spill on land surface: the Vozey oil field, Russia. Zolai, S.C., et al., [1995.eng] 50-5733
- Levels of cesium-137 in bottom sediments of the Laptev Sea. Matishov, G.G., et al., [1995.rus] 50-4109
- Literature review on decontaminating groundwater sampling devices; organic pollutants. Parker, L.V., [1995.eng] 50-729
- Management of shoreline protection and treatment operations. Owens, E.H., [1996.eng] 50-5562
- Material interactions when sampling groundwater. Parker, L.V., [1995.eng] 50-2456
- Mathematical model of pollution vectors in the arctic basin. Kravtsov, V.F., et al., [1996.eng] 50-3412
- Mercury and plastic in suspended Arctic Ocean sediment. Jouis, C.R., et al., [1995.eng] 50-1971
- Modeling of contaminant transport in groundwater in areas of discontinuous permafrost. Johnson, R., et al., [1996.eng] 50-6114
- Modelling the release of radioactive waste in the Kara Sea. Timms, S.J., et al., [1995.eng] 50-5059
- Modelling the spread of oil spills in ice-infested waters. Venkatesh, S., et al., [1990.eng] 50-467
- Navigation and the pollution of the coastal zone of Arctic seas. Slevich, S.B., et al., [1991.rus] 50-1319
- NORSMAP '89-Norwegian remote sensing spectrometry for mapping and monitoring of algal blooms and pollution. Pettersson, L.H., et al., [1992.eng] 50-622
- Ocean pollution in the Arctic north and the Russian Far East. Kirk, E.J., ed., [1995.eng] 50-5058
- Odor removal processes for ice-covered river runoff. Hrudey, S.E., et al., [1995.eng] 50-1524
- Oil combatting in a cold environment using bioremediation techniques. Rytönen, J., et al., [1995.eng] 50-169
- Oil on shorelines and shoreline treatment: a state-of-knowledge review. Owens, E.H., et al., [1996.eng] 50-5560
- Oil pollution in Arctic waters. Fussaeter, G., et al., [1991.eng] 50-3421
- Oil pollution in ice covered seas. Arita, M., et al., [1996.jpj] 50-5899
- Oil recovery and nearshore protection in Prince William Sound. Hood, S.D., [1995.eng] 50-5721
- Oil spill risks for Copper River Delta in Alaska. Christensen, F.T., et al., [1996.eng] 50-5556
- Oil spills in open and ice-infested waters: a comparative need for data on water currents. Venkatesh, S., [1995.eng] 50-5932
- Organochlorines in the arctic ecosystem. Jensen, J., [1991.eng] 50-3422
- Overview of environmental and hydrogeologic conditions at Bethel, Alaska. Dorava, J.M., et al., [1995.eng] 50-2484
- Overview of environmental and hydrogeologic conditions at Bettles Field, Alaska. Cowan, J.R., [1995.eng] 50-2492
- Overview of environmental and hydrogeologic conditions at Chandalar Lake, Alaska. Cowan, J.R., [1995.eng] 50-2497
- Overview of environmental and hydrogeologic conditions at Cold Bay, Alaska. Rice, W.A., et al., [1995.eng] 50-2489
- Overview of environmental and hydrogeologic conditions at Farewell Bend, Alaska. Dorava, J.M., et al., [1995.eng] 50-2485

Water pressure

Water reserves

- Overview of environmental and hydrogeologic conditions at Fort Yukon, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2482
- Overview of environmental and hydrogeologic conditions at Galena, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2481
- Overview of environmental and hydrogeologic conditions at Hinchinbrook Island, Alaska. Dorava, J.M., et al. [1995,eng] 50-2486
- Overview of environmental and hydrogeologic conditions at Iliamna, Alaska. Hall, J.D., [1995,eng] 50-2495
- Overview of environmental and hydrogeologic conditions at Nome, Alaska. Dorava, J.M., [1995,eng] 50-2488
- Overview of environmental and hydrogeologic conditions at Puntilla Lake, Alaska. Dorava, J.M., et al. [1995,eng] 50-2487
- Overview of environmental and hydrogeologic conditions at Sitka, Alaska. Hogan, E.V., [1995,eng] 50-2494
- Overview of environmental and hydrogeologic conditions at Tanana, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2483
- Overview of environmental and hydrogeologic conditions at Unalakleet, Alaska. Dorava, J.M., [1995,eng] 50-2496
- Overview of environmental and hydrogeologic conditions at Wrangell, Alaska. Hogan, E.V., [1995,eng] 50-2493
- Overview of environmental and hydrogeologic conditions near Big Delta, Alaska. Nelson, G.L., [1995,eng] 50-2490
- Overview of environmental and hydrogeologic conditions near Petersburg, Alaska. Hogan, E.V., [1995,eng] 50-2491
- Overview of the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Hartley, A.E., Sr., [1996,eng] 50-5568
- Parasitic protozoans in North Slope drinking water. Pollen, M.R., et al. [1996,eng] 50-6148
- Periodic variations in air-water gas exchange of Arctic Ocean insecticide pollutants. Jantunen, L.M., et al. [1995,eng] 50-1862
- Pesticide degradation in an arctic lake and watershed. Falconer, R.L.M., et al. [1995,eng] 50-1131
- Phosphorus in river runoff. Savenko, V.S., et al. [1995,eng] 50-4122
- Physicochemical properties and partitioning of organochlorine compounds in air and water. Falconer, R.L.M., [1994,eng] 50-688
- Plant nutrient runoff in Norwegian watersheds. Haraldsen, T.K., et al. [1995,eng] 50-741
- Pollution distribution and hydrographic variability of the Kara Sea. Pavlov, V.K., et al. [1995,eng] 50-4557
- Possible ways of preventing fallout of carcinogenic hydrocarbons. Bez'izyazkova, A.N., et al. [1991,rus] 50-1317
- Preliminary results of studies of industrial and nuclear contaminants in the Ob and Yenisey rivers and the Kara Sea. Champ, M.A., et al. [1995,eng] 50-5060
- Preventing the pollution of indigenous streams during open pit placer mining. Tsygankov, A.V., et al. [1990,rus] 50-1604
- Prince William Sound intertidal biota—good news and bad news five years later. Houghton, J.P., et al. [1995,eng] 50-5730
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 18th, Edmonton, Alberta, June 14-16, 1995, [1995,eng] 50-5715
- Proceedings. Arctic and Marine Oilspill Program (AMOP) Technical Seminar, 19th, Calgary, Alberta, June 12-14, 1996, [1996,eng] 50-5551
- Proceedings. Arctic and Marine Oilspill Program Technical Seminar, 13th, Edmonton, Alberta, June 6-8, 1990, [1990,eng] 50-466
- Process for the treatment of a waste water stream. Janssen, J.J., et al. [1993,eng] 50-2233
- Pu, ¹³⁷Cs and excess ²¹⁰Pb in Russian arctic sediments. Baskaran, M., et al. [1996,eng] 50-5606
- Radioactive contaminants: potential risk to ocean ecosystems. Kelley, J.J., et al. [1996,eng] 50-5906
- Radioecological hazard of ship nuclear reactors sunken in the Arctic. Sivintsev, I.U.V., et al. [1996,eng] 50-5676
- Radioecological studies of radioactive contaminants in Ussury Bay, Sea of Japan. Soifer, V.N., [1995,eng] 50-5061
- Radionuclide tracer profiles on Arctic Ocean ice islands. Smith, J.N., et al. [1995,eng] 50-4560
- Real time oil spill forecasting during an experimental oil spill in the arctic ice. Reed, M., et al. [1994,eng] 50-1685
- Reflection of weather conditions in the chemistry of horizontal fog/cloud precipitation. Skvarenina, J., et al. [1991,eng] 50-3522
- Remediation of a hydrocarbon spill in Alberta. Mitton, M.J., et al. [1995,eng] 50-5725
- Remote monitoring and technical support for drinking water systems in remote communities. Smith, D.W., et al. [1996,eng] 50-6152
- Remote sensing of oil spills. Fingas, M.F., [1990,eng] 50-473
- Report on acidification in the arctic countries. Nenonen, M., [1991,eng] 50-3418
- Report on heavy metals. Mel'nikov, S.A., [1991,eng] 50-3419
- Response operations on the Kolva River Basin 1995 Oil Recovery and Mitigation Project. Stillings, W.I., [1996,eng] 50-5569
- Risk assessment of offshore oil spills. LaBelle, R.P., [1990,eng] 50-470
- River pollution of Russian northern seas. Rovinskiĭ, F.I.A., et al. [1995,eng] 50-6548
- Role of industries and environmental effects on corrosion control in the North. Dutta, P.K., [1996,eng] 50-3760
- Role of the large-scale Arctic Ocean circulation in the transport of contaminants. Schlosser, P., et al. [1995,eng] 50-4556
- Satellite studies of pollution in the Barents and Kara seas. Kögeler, J., et al. [1995,eng] 50-4136
- Scavenging rates affecting Arctic Ocean radionuclide distributions. Cochran, J.K., et al. [1995,eng] 50-4562
- Sea ice over-flooding and oil spills in the Mackenzie Delta. Webb, R., [1995,eng] 50-5720
- Seasonal variability in high mountain lake water chemistry. Wögrath, S., et al. [1995,eng] 50-4077
- Sedimentation and mixing rates of radionuclides in Barents Sea sediments off Novaya Zemlya. Smith, J.N., et al. [1995,eng] 50-4561
- Shoreline clean-up techniques—Exxon Valdez operations. Newman, S.A., [1990,eng] 50-478
- Shoreline cleanup following the Exxon Valdez oil spill. Owens, E.H., et al. [1990,eng] 50-476
- Shoreline cleanup following the Exxon Valdez oil spill. Teal, A.R., [1990,eng] 50-477
- Shoreline ecology program following the Exxon Valdez oil spill, pt.1. Page, D.S., et al. [1995,eng] 50-3921
- Shoreline ecology program following the Exxon Valdez oil spill, pt.2. Boehm, P.D., et al. [1995,eng] 50-3924
- Shoreline ecology program following the Exxon Valdez oil spill, pt.3. Gillfillan, E.S., et al. [1995,eng] 50-3925
- Shoreline impacts in the Gulf of Alaska region following the Exxon Valdez oil spill. Gillfillan, E.S., et al. [1995,eng] 50-3926
- Shoreline monitoring following the Exxon Valdez incident. Owens, E.H., et al. [1990,eng] 50-480
- Shoreline oiling conditions in Prince William Sound following the Exxon Valdez oil spill. Neff, J.M., et al. [1995,eng] 50-3923
- Simple field screening method for white phosphorus (P₄) in sediment. Walsh, M.E., et al. [1995,eng] 50-2328
- Smoke plume trajectory from *in situ* burning of crude oil in Alaska—field experiments. McGrattan, K.B., et al. [1995,eng] 50-5727
- Snow disposal sites—the Regional Municipality of Ottawa-Carleton experience. Becking, J.J., [1986,eng] 50-1196
- Snow disposal study for the designated growth centres. McNeely Engineering Consultants Ltd., Ottawa, Ontario, [1990,eng] 50-1153
- Solid phase extraction of nitroaromatics from water. Jenkins, T.F., et al. [1995,eng] 50-1977
- Sources and distribution of sulfate in the Pacific atmosphere. Chen, L.Q., et al. [1989,chi] 50-6786
- Spray freezing to treat oil sands tailings pond water. Gao, W., et al. [1996,eng] 50-6112
- Stranded oil persistence in cold climates. Humphrey, B., et al. [1990,eng] 50-475
- Subarctic lake pollution by gold mine arsenic effluent. Bright, D.A., et al. [1996,eng] 50-4207
- Subsurface Oil in Coarse Sediments Experiments (SOCSEX II). Harper, J.R., et al. [1995,eng] 50-5726
- Suggested improvements to oil spill response planning. Owens, E.H., [1990,eng] 50-479
- Summary report on the snow disposal study for Portland. Maine. Woodard & Curran Inc., Consulting Engineers, Portland, ME, [1990,eng] 50-1203
- Symposium on Environmental Toxicology and Risk Assessment, 3rd, Atlanta, GA, Apr. 26-28, 1993. Exxon Valdez oil spill: fate and effects in Alaska waters. [1995,eng] 50-3914
- Technogenic cryomorphogenesis and pollution of river estuaries in the Arctic basin. Grigor'ev, M.N., et al. [1991,rus] 50-1303
- Tracing radioactive contamination in the Siberian Arctic. Sayles, F.L., et al. [1996,eng] 50-6668
- Transfer of European coastal pollution to the Arctic: radioactive tracers. Dahlgard, H., [1995,eng] 50-1136
- Transfer of reprocessing wastes from north-west Europe to the Arctic. Kershaw, P., et al. [1995,eng] 50-4559
- Tropical toxins ruin arctic catch. Pearce, F., [1995,eng] 50-968
- Upland watershed hydrochemical response to acidification during snowmelt. Allan, C., [1995,eng] 50-5210
- Use and protection of ground water from depletion and pollution (Magadan). Elinek, L.I.A., [1991,rus] 50-440
- Use of dispersants in broken ice. Brown, H.M., et al. [1996,eng] 50-5553
- Use of geosynthetics to prevent waterfowl white phosphorus poisoning. Henry, K.S., et al. [1995,eng] 50-2865
- Use of mussels to assess bioavailability of hydrocarbons from the Exxon Valdez oil spill. Shigenaka, G., et al. [1995,eng] 50-3920
- Use of remote sensing spacecraft in real-time support for disaster management. Tortorici Montapert, A., et al. [1992,eng] 50-620
- Use of surfactants in oil spill remediation in cold regions. Tumeo, M.A., et al. [1995,eng] 50-5723
- Vertical migration of diesel into silty sand subject to cyclic freeze-thaw. Biggar, K.W., et al. [1996,eng] 50-6117
- WinOil: an oil spill model for Windows 95. McGillivray, D.G., et al. [1996,eng] 50-5555
- Water pressure**
- Basal water pressure as indicator of subglacial drainage patterns. Stone, D.B., et al. [1996,eng] 50-6090
- Brief review of physical and mathematical models of frost heave. Holden, J.T., [1981,eng] 50-2137
- Calculation of water transport in the LR 90 test. Onalp, A., [1977,eng] 50-2325
- Cavities and the effective pressure between abrading clasts and bedrock. Hindmarsh, R.C.A., [1996,eng] 50-6237
- Effects of the variation in suction and heat flow during the frost heaving process. Jones, R.H., [1977,eng] 50-2323
- Frost heave due to ice lens formation in freezing soils. 2. Field application. Sheng, D., et al. [1995,eng] 50-743
- Impact of subglacial groundwater flow on moraine formation. Boulton, G.S., et al. [1995,eng] 50-2129
- Indirect assessment of frost susceptibility. Hurt, K.G., [1977,eng] 50-2327
- Links between proglacial stream sediments and glacier motion. Willis, I.C., et al. [1996,eng] 50-6691
- Pore-water pressures in freezing and thawing fine-grained soils. Eigenbrod, K.D., et al. [1996,eng] 50-4756
- Prediction of frost heave of roads—a simple empirical model. Sætersdal, R., [1981,eng] 50-2139
- Pressure, salinity, and maximum density temperature of sea water. Kulkulka, D.J., et al. [1996,eng] 50-6441
- Prudhoe Bay field, Alaska, waterflood injection water quality and remedial treatment study. Hsi, C.D., et al. [1991,eng] 50-1700
- Role of sediment transport in the mechanics of jökulhlaups. Fowler, A.C., et al. [1996,eng] 50-6269
- Soil water pressure measurements in subzero air temperatures. Gorden, D.S., et al. [1995,eng] 50-420
- Some examples of stationary investigations of cryogenic processes in Transbaikalia. Poznanin, V.L., et al. [1993,rus] 50-114
- Subglacial hydrology of a Swiss glacier. Hubbard, B.P., et al. [1995,eng] 50-1878
- Towards a hydrological model for computerized ice-sheet simulations. Alley, R.B., [1996,eng] 50-6092
- Tracer experiments to determine subglacial pressurized flow in Storglaciären. Köhler, J., [1995,eng] 50-445
- Tree leaf cell response to cold acclimation. Rajashekar, C.B., et al. [1996,eng] 50-6555
- Tree tissue xylem dysfunction from freezing stress. Hacke, U., et al. [1996,eng] 50-5773
- Water pressure and basal sliding on Storglaciären, northern Sweden. Jansson, P., [1995,eng] 50-446
- Waterflood monitoring enhancement of offshore Alaskan oil reservoir management. Starzer, M.R., et al. [1991,eng] 50-1712
- Water purification**
- See [also]: Aeration; Water treatment
- Water reserves**
- Anthropogenic climate change and reduction of water resources. Golubsov, V.V., et al. [1996,eng] 50-5055
- Bibliography on the hydrology of the Himalaya-Karakoram region. Young, G.J., et al. [1996,eng] 50-5273
- Climate change and water resources in Vuoksi watershed. Vehviläinen, B., et al. [1994,eng] 50-3195
- Climate change and water resources of watersheds in the Sierra Nevada. Pupacko, A., et al. [1992,eng] 50-3031
- Climatic trends in the Colorado-Big Thompson Project area. U.S. Bureau of Reclamation. Denver Office, Denver, CO, [1994,eng] 50-5007
- Geocryological characteristics of the intermontane troughs in the Altay Mountains. Kuskovskii, V.S., [1996,rus] 50-6364
- Glacier resources in the Karakorum-Kunlun Mts. and their utilization. Su, Z., [1992,chi] 50-1489
- Lakes and hydropower in Xizang. Wang, Y.L., [1992,chi] 50-1481
- Nature of hydroelectric power exploitation. Vischer, D., [1996,ger] 50-4175
- Overview of environmental and hydrogeologic conditions at Bethel, Alaska. Dorava, J.M., et al. [1995,eng] 50-2484
- Overview of environmental and hydrogeologic conditions at Bettles Field, Alaska. Cowan, J.R., [1995,eng] 50-2492
- Overview of environmental and hydrogeologic conditions at Chandalar Lake, Alaska. Cowan, J.R., [1995,eng] 50-2497
- Overview of environmental and hydrogeologic conditions at Cold Bay, Alaska. Rice, W.A., et al. [1995,eng] 50-2489
- Overview of environmental and hydrogeologic conditions at Farewell Bend, Alaska. Dorava, J.M., et al. [1995,eng] 50-2485
- Overview of environmental and hydrogeologic conditions at Fort Yukon, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2482
- Overview of environmental and hydrogeologic conditions at Galena, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2481
- Overview of environmental and hydrogeologic conditions at Hinchinbrook Island, Alaska. Dorava, J.M., et al. [1995,eng] 50-2486
- Overview of environmental and hydrogeologic conditions at Iliamna, Alaska. Hall, J.D., [1995,eng] 50-2495
- Overview of environmental and hydrogeologic conditions at Nome, Alaska. Dorava, J.M., [1995,eng] 50-2488
- Overview of environmental and hydrogeologic conditions at Puntilla Lake, Alaska. Dorava, J.M., et al. [1995,eng] 50-2487
- Overview of environmental and hydrogeologic conditions at Sitka, Alaska. Hogan, E.V., [1995,eng] 50-2494
- Overview of environmental and hydrogeologic conditions at Tanana, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2483
- Overview of environmental and hydrogeologic conditions at Unalakleet, Alaska. Dorava, J.M., [1995,eng] 50-2496
- Overview of environmental and hydrogeologic conditions at Wrangell, Alaska. Hogan, E.V., [1995,eng] 50-2493
- Overview of environmental and hydrogeologic conditions near Big Delta, Alaska. Nelson, G.L., [1995,eng] 50-2490
- Overview of environmental and hydrogeologic conditions near Petersburg, Alaska. Hogan, E.V., [1995,eng] 50-2491
- Possibilities of regional development by snow utilization. Taneda, M., [1988,jpn] 50-2280
- Potentials for utilization of hydroelectric resources in Greenland. Taagholt, J., [1995,eng] 50-2963

Water retention

- Remote sensing in hydrology and water management. Haefner, H., et al. [1992,eng] 50-621
Rivers and lakes of Xizang. Guan, Z.H., et al. [1984,chi] 50-1846
Satellite SAR identification of lake water resources on the North Slope. Jeffries, M.O., et al. [1996,eng] 50-6177
Snowmelt water resources from aquifers. Kimura, S., [1988,jpn] 50-2285
Snowmelt, global warming, and water level of Lake Biwa. Ikebuchi, S., [1992,eng] 50-3029

Water retention

- Effects of capillary discontinuities on water flow and water retention in layered snowcovers. Jordan, R., [1995,eng] 50-2472

Water storage

- Comparative water relations of tropical alpine plants. Meinzer, F.C., et al. [1994,eng] 50-3047
Distributed snowmelt modeling using a clustering algorithm. Harrington, R.F., et al. [1995,eng] 50-2409
Energy balance model for a small valley glacier, pt.1. Arnold, N.S., et al. [1996,eng] 50-4893
Evaporation from a small lake in the continental Arctic using multiple methods. Gibson, J.J., et al. [1994,eng] 50-5694
Handbook for field evaluation of the 600 ROWPU winterization kit. U.S. Army Cold Regions Research and Engineering Laboratory, [1990,eng] 50-6048
Preliminary considerations for runoff modelling in GCMs. Versegny, D., [1994,eng] 50-5701
Small basin modeling of snow water equivalence using binary regression tree methods. Elder, K., et al. [1995,eng] 50-2406
Snow cover variations in a field catchment area. Shutov, V.A., [1995,eng] 50-2729
See [also]: Ice (water storage); Snow retention; Snow water equivalent; Water retention

Water structure

- Action of HPLC6 antifreeze polypeptide in solution. Brooke-Taylor, C.A., et al. [1996,eng] 50-5298
Adsorption and desorption of water on single crystal MgO(100): the role of surface defects. Stirniman, M.J., et al. [1996,eng] 50-5937
Calorimetric study of water two-dimensionally condensed on the homogeneous surface of a solid. Nagao, M., et al. [1995,eng] 50-2024
Classical and quantum mechanical studies of ice Ih near the melting temperature. Gai, H.D., et al. [1996,eng] 50-3099
Clathrate-like structures in supercooled water. Walrafen, G.E., et al. [1995,eng] 50-155
Cooperativity and hydrogen bond network lifetime in liquid water. Lamanna, R., et al. [1995,eng] 50-5714
Dipole moment of the water molecule in the condensed phase: a periodic Hartree-Fock estimate. Gatti, C., et al. [1995,eng] 50-3817
Explanation of the density maximum in water. Cho, C.H., et al. [1996,eng] 50-4346
Freezable water in portland cement paste. Gress, D.L., et al. [1995,eng] 50-2631
Helium atom scattering study of water adsorption on the NaCl(100) single crystal surface. Bruch, L.W., et al. [1995,eng] 50-412
Ice/supercooled water linear correlation length from Raman spectroscopy. Walrafen, G.E., et al. [1995,eng] 50-152
Mean amplitude of the OH...O hydrogen bond in ice and liquid water. Iijima, T., [1996,eng] 50-5022
Molecular dynamic simulation of proton transport in supercooled water. Di Cola, D., et al. [1996,eng] 50-3715
Molecular dynamics simulation of ice crystal growth. Nada, H., et al. [1996,jpn] 50-4932
Molecular dynamics simulation studies on ice: interatomic models. Kawamura, K., [1996,jpn] 50-6733
New approach to the dynamics of hydrogen bond network in liquid water. Matsumoto, M., et al. [1996,eng] 50-3616
Phase transitions of ice confined in mesopores. Hansen, E.W., et al. [1996,eng] 50-4141
Pressure, salinity, and maximum density temperature of sea water. Kukulkka, D.J., et al. [1996,eng] 50-6441
Simple relationship between the properties of isotopic water. Vedamuthu, M., et al. [1996,eng] 50-4184
Slow dynamics of water molecules in supercooled states. Gallo, P., et al. [1996,eng] 50-4293
Sound propagation through hydrological fronts in the Barents Sea. Aleksandrov, I.A., [1995,eng] 50-3311
Spectroscopy of deuterium oxide ice desorption and substrate wettability. Engquist, I., et al. [1995,eng] 50-1570
Structural characteristics of hydrogen-bonded networks in water and ice systems. Dore, J.C., et al. [1995,eng] 50-2697
Structural isotope effect in water bilayers adsorbed on Ru(001). Held, G., et al. [1995,eng] 50-871
Thermal radiation of water from 0° to 75°C, pt.3. Aivazian, G.M., [1996,eng] 50-5192
Unfrozen water types in hydrated phospholipid bilayers. Hsieh, C.H., et al. [1995,eng] 50-3038
X-ray and neutron scattering studies of the structure of water at a hydrophobic surface. Bellissent-Funel, M.C., et al. [1996,eng] 50-5713

Water supply

- 1994-1995 antarctic field season. Roberts, C.A., et al. [1995,eng] 50-2477
Climate change and GCM simulation of water resources from mountain snowpack. McGinnis, D.L., [1994,eng] 50-6690

- Climate change in mountain environments. Willis, I., et al. [1995,eng] 50-1522
Climatic influences on Chinese water resources. Shi, Y.F., et al. [1995,eng] 50-4231
Cold regions utilities monograph. Third edition. Smith, D.W., ed. et al. [1996,eng] 50-6424
Comparison of geostatistical methodologies used to estimate snow water equivalent. Carroll, S.S., et al. [1996,eng] 50-4409
Cryolithozone structure in an oil and gas-bearing province supply. Dedeev, V.A., et al. [1990,rus] 50-1630
Damming James Bay: I. Potential impacts on coastal climate and the water balance. Rouse, W.R., et al. [1992,eng] 50-5030
Demonstrating brine water wells and toilets for Deering, Alaska. Lundell, R.H., [1996,eng] 50-6153
Drinking water quality in small northern communities. Smith, D.W., et al. [1996,eng] 50-6154
Ecological problems in the cryogenic-hydrogeological conditions in northwestern Siberia. Petrova, R.G., et al. [1996,rus] 50-6847
Effects of climate change on water supplies in mountainous snowmelt regions. Rango, A., [1995,eng] 50-6617
Glaciers: a water resource. Meier, M.F., et al. [1995,eng] 50-3801
Impact crater lakes on Mars. Newsom, H.E., et al. [1996,eng] 50-5777
Impacts of climate variability and change on Canadian wetlands. Woo, M.K., [1992,eng] 50-4805
Incorporating airborne data into the spatial model used to estimate snow water equivalent. Carroll, S.S., et al. [1993,eng] 50-5146
Modeling measurement errors when estimating snow water equivalent. Carroll, S.S., [1995,eng] 50-2605
New ice jam database. White, K.D., [1996,eng] 50-4410
Odor removal processes for ice-covered river runoff. Hrudye, S.E., et al. [1995,eng] 50-1524
Overview of environmental and hydrogeologic conditions at Bethel, Alaska. Dorava, J.M., et al. [1995,eng] 50-2484
Overview of environmental and hydrogeologic conditions at Bettles Field, Alaska. Cowan, J.R., [1995,eng] 50-2492
Overview of environmental and hydrogeologic conditions at Chandalar Lake, Alaska. Cowan, J.R., [1995,eng] 50-2497
Overview of environmental and hydrogeologic conditions at Cold Bay, Alaska. Rice, W.A., et al. [1995,eng] 50-2489
Overview of environmental and hydrogeologic conditions at Farewell Bend, Alaska. Dorava, J.M., et al. [1995,eng] 50-2485
Overview of environmental and hydrogeologic conditions at Fort Yukon, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2482
Overview of environmental and hydrogeologic conditions at Galena, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2481
Overview of environmental and hydrogeologic conditions at Hinchinbrook Island, Alaska. Dorava, J.M., et al. [1995,eng] 50-2486
Overview of environmental and hydrogeologic conditions at Iliamna, Alaska. Hall, J.D., [1995,eng] 50-2495
Overview of environmental and hydrogeologic conditions at Nome, Alaska. Dorava, J.M., [1995,eng] 50-2488
Overview of environmental and hydrogeologic conditions at Punilla Lake, Alaska. Dorava, J.M., et al. [1995,eng] 50-2487
Overview of environmental and hydrogeologic conditions at Sitka, Alaska. Hogan, E.V., [1995,eng] 50-2494
Overview of environmental and hydrogeologic conditions at Tanana, Alaska. Nakanishi, A.S., et al. [1994,eng] 50-2483
Overview of environmental and hydrogeologic conditions at Unalakleet, Alaska. Dorava, J.M., [1995,eng] 50-2496
Overview of environmental and hydrogeologic conditions at Wrangell, Alaska. Hogan, E.V., [1995,eng] 50-2493
Overview of environmental and hydrogeologic conditions near Big Delta, Alaska. Nelson, G.L., [1995,eng] 50-2490
Overview of environmental and hydrogeologic conditions near Petersburg, Alaska. Hogan, E.V., [1995,eng] 50-2491
Parasitic protozoans in North Slope drinking water. Pollen, M.R., et al. [1996,eng] 50-6148
Pitotifics and small pumps in cold region water distribution systems. Mauser, M.W., [1995,eng] 50-5667
Purification kit for potabilizing meltwater. Gopal, R., et al. [1991,eng] 50-3402
Remote monitoring and technical support for drinking water systems in remote communities. Smith, D.W., et al. [1996,eng] 50-6152
Response of snowmelt hydrology to climate change. Brubaker, K.L., et al. [1996,eng] 50-6614
Snow surveying in Canada: a perspective. Goodison, B.E., et al. [1987,eng] 50-4907
Suprapermafrost taliks as arctic water supplies. Burchak, T.V., et al. [1990,rus] 50-1601
Transporting icebergs as a fresh water source. [1974,eng] 50-4026
Use and protection of ground water from depletion and pollution (Magadan). Elisek, L.I.A., [1991,rus] 50-440
Utilities and systems for the new Amundsen-Scott Station. Theno, S., et al. [1996,eng] 50-6142
Water resources data for Alaska, water year 1994. Bigelow, B.B., et al. [1995,eng] 50-2169
See [also]: Alimentation

Water table

- Channel erosion during flooding of alpine streams. Becht, M., [1996,ger] 50-5251

Water temperature

- Controls on CH₄ flux from an Alaskan boreal wetland. Moosavi, S.C., et al. [1996,eng] 50-6053
Differences in carbon accumulation of two cut-over peatlands in Finland. Rodhefeld, H., et al. [1994,eng] 50-3226
Effect of snow hydrology on glacial runoff. Fountain, A.G., [1996,eng] 50-6084
Effect of water-table position on frost heave. Burns, J., [1977,eng] 50-2326
Emissions of methane and nitrogen oxides from peatland ecosystems. Martikainen, P.J., et al. [1994,eng] 50-3220
Impact of glaciation on the groundwater regime of northwest Europe. Boulton, G.S., et al. [1996,eng] 50-5326
Observations of 'freezing-induced redistribution' in soil lysimeters. Butler, A.P., et al. [1996,eng] 50-6082
Prediction of frost heave. Jones, R.H., [1981,eng] 50-2136
Suprapermafrost groundwater seepage in gravelly terrain, Resolute, NWT, Canada. Woo, M.K., et al. [1995,eng] 50-668

Water temperature

- Acoustic response to variations of water and ice characteristics. Gavrilov, A.N., et al. [1995,eng] 50-5736
Analyzing the accuracy of calculating the surface layer temperature of the Barents Sea. Garbuzov, A.V., [1992,rus] 50-1268
Anatomy of the Arctic Frontal Zone in the Greenland Sea. van Aken, H.M., et al. [1995,eng] 50-573
Antarctic geography. Siple, P.A., [1956,eng] 50-6095
Application of lake temperature model for predicting the effect of climatic change. Virta, J., et al. [1994,eng] 50-3200
Arctic Ocean deep water masses in the western Iceland Sea. Buch, E., et al. [1996,eng] 50-5856
Arctic Ocean—a special natural cryogenic system. Danilov, I.D., [1996,rus] 50-6374
Biological phosphorus removal: effect of low temperature. Kumar, P., et al. [1996,eng] 50-4755
Case study in three-dimensional inverse methods: combining hydrographic, acoustic, and moored thermistor data in the Greenland Sea. Morawitz, W.M.L., et al. [1996,eng] 50-5167
Chemical characteristics of water masses in the Bransfield Strait. Wang, Y.H., et al. [1989,chi] 50-6772
Cold bottom water in the southern Laptev Sea. Churun, V.N., et al. [1995,eng] 50-2076
Comparing simulated glacial climate and paleodata: a reexamination. Broccoli, A.J., et al. [1996,eng] 50-4398
Convective instability influence on freezing time of warm water. Maciejewski, P.K., [1996,eng] 50-4220
CTD measurements in the Greenland Sea, 1993. Budéus, G., et al. [1996,eng] 50-5105
Cycling around the South Pole. Yuan, X.J., et al. [1996,eng] 50-4211
Deep water formation in the Greenland Sea. Pawlowicz, R.A., et al. [1996,eng] 50-6669
Diffuse interface analysis of ice nucleation in undercooled water. Gránásky, L., [1995,eng] 50-1279
Disturbances in the thermohaline structure of the near-surface ocean layer in the wake of an iceberg. Abaza, V.P., et al. [1995,rus] 50-4202
Dust in Greenland and antarctic ice cores of the LGM. Yung, Y.L., et al. [1996,eng] 50-2727
Dynamics of heat exchange between sediment and water in a lake. Fang, X., et al. [1996,eng] 50-5970
Eddy formation in the polar frontal zone of the Barents Sea. Kostianoi, A.G., et al. [1992,rus] 50-1262
Environmental factors influencing the biodegradation of petroleum hydrocarbons in cold seawater. Siron, R., et al. [1995,eng] 50-651
Evaporation rate, free energy, and entropy of amorphous water at 150 K. Speedy, R.J., et al. [1996,eng] 50-5920
Experimental voyage through Northern Sea Route. Yamaguchi, H., [1996,eng] 50-4425
Fine structure at CTD stations of the First Chinese Southern Ocean Expedition. Fang, X.H., et al. [1989,chi] 50-6766
Formation and discharge of deep and bottom water in the northwestern Weddell Sea. Fahrback, E., et al. [1995,eng] 50-670
Formation and evolution of the surface mixed layer and halocline of the Arctic Ocean. Rudels, B., et al. [1996,eng] 50-5261
Frazil evolution in channels. Hammar, L., et al. [1995,eng] 50-647
Geostrophic circulation of water in the vicinity of the meteorological vessel "M" in March-April 1987. Korotkov, S.V., [1992,rus] 50-1263
Heat content of the ocean baroclinic layer as a predictor of variability of atmospheric circulation. Vangengeim, T.G., et al. [1990,rus] 50-333
High pressure-differential thermal analysis of ice-water equilibrium at 1.5-5.0 GPa. Xu, Y.S., et al. [1995,eng] 50-3392
Hydrological problems in the Ebba Basin and Petunia Gulf (Central Spitsbergen). Chojński, A., [1989,pol] 50-2919
Ice-age tropics revisited. Anderson, D.M., et al. [1994,eng] 50-3771
Ice-sheet growth and high-latitudes sea-surface temperature. Berger, A., et al. [1996,eng] 50-5862
Measuring ocean parameters at extremes of temperature. Neal, G.W., et al. [1994,eng] 50-5180
Mesoscale-fine structure relationship in antarctic ocean currents. Shapiro, G.I., et al. [1994,eng] 50-866
Midge emergence during thaw cycles of a subalpine lake. Sherk, T., et al. [1996,eng] 50-4504
Mixing in ice-covered lakes. Bengtsson, L., [1996,eng] 50-6579

Water transport

- Modeling the effects of climate change on lakes. Frisk, T., et al. [1994,eng] 50-3198
- Movement of ACC eddies at the eastern boundary of the Weddell Gyre. Guretskii, V.V., et al. [1994,eng] 50-337
- New insights on large-scale oceanography in Fram Strait: the West Spitsbergen Current. Gascard, J.C., et al. [1995,eng] 50-1163
- No evidence for extreme, long term warming in early Pliocene sediments of the Southern Ocean. Burckle, L.H., et al. [1996,eng] 50-6627
- Oceanographic conditions of Murman coastal biocenoses. Boitsov, V.D., et al. [1995,eng] 50-4138
- Physical limnological processes under ice. Kenney, B.C., [1996,eng] 50-6578
- Phytoplankton seasonal bloom shift in Barents Sea ice. Strass, V.H., et al. [1996,eng] 50-6721
- Possibility of subsea cryolithogenesis. Shpolianskaia, N.A., [1990,rus] 50-1627
- Preconditioning the Greenland Sea for deep convection: ice formation and ice drift. Visbeck, M., et al. [1995,eng] 50-567
- Pressure and salinity effects on phase composition of water in frozen ground. Kondakov, V.V., et al. [1990,rus] 50-1612
- Pressure, salinity, and maximum density temperature of sea water. Kukulka, D.J., et al. [1996,eng] 50-6441
- Real-time operational forecasting on shipboard of the Icelandic-Faeroe frontal variability. Robinson, A.R., et al. [1996,eng] 50-4742
- Reduced Laurentide meltwater outflow. de Vernal, A., et al. [1996,eng] 50-5523
- Relation between distribution of phytoplankton and sea water stability. Su, Y.F., [1989,chi] 50-6767
- Research on a thermal conductivity measurement of supercooled water. Saito, A., et al. [1996,eng] 50-6475
- Role of air-sea heat flux in Newfoundland Shelf sea temperature variability. Umoh, J.U., et al. [1995,eng] 50-4209
- Sea of Okhotsk near-freezing dichothermal layer variations. Yang, J.Y., et al. [1996,eng] 50-6219
- Simulation and analysis of upper Niagara River ice-jam conditions. Wang, D.S., et al. [1995,eng] 50-356
- Simulation and observation of ice formation (freeze-over) in a lake. Fang, X., et al. [1996,eng] 50-5466
- Sketch of hydrographic structure and circulation in the waters near Wilkes Land, Antarctica. Miao, Y.T., et al. [1989,chi] 50-6765
- Sound propagation through hydrological fronts in the Barents Sea. Aleksandrov, I.A., [1995,eng] 50-3311
- Study of short term variability in oceanographic data with the aid of numerical filters. Potanin, V.A., et al. [1992,rus] 50-1267
- Subzero temperature water behavior in nonionic microemulsions. pt.1. Gardi, N., et al. [1996,eng] 50-3409
- Supercooling and the Mpemba effect: when hot water freezes quicker than cold. Auerbach, D., [1995,eng] 50-5706
- Temperature evolution of a chemically stratified lake. Spiegel, R.H., et al. [1996,eng] 50-6333
- Temperature variability beneath Ronne Ice Shelf, Antarctica, from thermistor cables. Nicholls, K.W., [1996,eng] 50-2846
- Thermal regime of ice covered Swedish lakes. Bengtsson, L., et al. [1994,eng] 50-5696
- Thermohaline circulation of the Arctic Ocean and the Greenland Sea. Rudels, B., [1995,eng] 50-5234
- Thermohaline circulation of the Arctic Ocean. Poliakov, I.V., et al. [1995,rus] 50-4118
- Transarctic acoustic propagation. Mikhalevsky, P.N., et al. [1995,eng] 50-6273
- Transfer coefficients of radon-222 across the sea surface. Kholuiski, S.N., et al. [1995,rus] 50-4120
- Vertical mixing processes in the western Weddell Sea. Robertson, R., et al. [1995,eng] 50-569
- Water masses and circulation around the South Shetland Islands in summer. Yang, T.Z., et al. [1989,chi] 50-6764
- Water transport**
- ²²²Ra as a tracer for shelf water in the Arctic Ocean. Van der Loeff, M.M.R., et al. [1995,eng] 50-4564
- A hydrochemical model for seasonally snow-covered alpine watersheds. Wolford, R.A., et al. [1996,eng] 50-4237
- Alternative road construction for stormwater management in cold climates. Stenmark, C., [1995,eng] 50-2532
- Arctic Ocean deep water masses in the western Iceland Sea. Buch, E., et al. [1996,eng] 50-5856
- Arctic Ocean ice and water transport during 1946-1988. Proshutinski, A.J., et al. [1995,eng] 50-6313
- Arctic Ocean radioactive isotope distribution and transport. Scholten, J.C., et al. [1995,eng] 50-4563
- Arctic oceanography: marginal ice zones and continental shelves. Smith, W.O., Jr., et al. [1995,eng] 50-1159
- ARNO rainfall-runoff model. Todini, E., [1996,eng] 50-3729
- Benthic foraminiferal assemblages and sea ice drift in the Arctic Ocean. Wollenburg, J., [1995,ger] 50-2443
- Biological processes on oceanic continental shelves: ice-ocean-biotic interactions. Grebmeier, J.M., et al. [1995,eng] 50-1166
- Calculation of water transport in the LR 90 test. Onalp, A., [1977,eng] 50-2325
- Chemical and isotopic tracers of snowmelt flowpaths in a subalpine watershed. Miller, E.K., et al. [1995,eng] 50-2427
- Chemical oceanography of the Arctic and its shelf seas. Anderson, L.G., [1995,eng] 50-1164
- Circulation and transport of water along the western Weddell Sea margin. Muench, R.D., et al. [1995,eng] 50-568

- Circulation and water mass modifications along the Nansen Basin slope. Schauer, U., et al. [1995,eng] 50-2074
- Cold bottom water in the southern Laptev Sea. Churun, V.N., et al. [1995,eng] 50-2076
- Comparative water relations of tropical alpine plants. Meinzer, F.C., et al. [1994,eng] 50-3047
- Damming James Bay: I. Potential impacts on coastal climate and the water balance. Rouse, W.R., et al. [1992,eng] 50-5030
- Damming James Bay: II. Impacts on coastal marshes. Price, J.S., et al. [1992,eng] 50-5031
- Direct evidence for northward flow on the northwestern Bering Sea shelf. Overland, J.E., et al. [1996,eng] 50-5266
- Direct measurements of transport and water properties through the Bering Strait. Roach, A.T., et al. [1995,eng] 50-566
- DOC storage in arctic seas: the role of continental shelves. Walsh, J.J., [1995,eng] 50-1165
- Ecology of fjords and coastal waters. Skjoldal, H.R., ed, et al. [1995,eng] 50-4128
- Effect of local wind on the dynamics of a Norwegian fjord. Leth, O.K., [1995,eng] 50-4135
- Evaluation of frost action on concrete. Kleiner, V.D., [1996,eng] 50-4367
- Exploring the Barents Sea polar front. Gawarkiewicz, G., et al. [1996,eng] 50-6672
- Fine structure at CTD stations of the First Chinese Southern Ocean Expedition. Fang, X.H., et al. [1989,chi] 50-6766
- Flow-finger continuity in serial thick-sections in a melting Sierran snowpack. McGurk, B.J., et al. [1995,eng] 50-2401
- Flux of dense cold overflow water southeast of Iceland. Saunders, P.M., [1996,eng] 50-3145
- Geoelectromagnetic monitoring of water discharge in the Bering Strait. Shaeer, V.S., et al. [1995,eng] 50-3831
- Groundwater flow through Ontario glacial deposits. Gerber, R.E., et al. [1996,eng] 50-6750
- Hydrochemical characteristics of the Kara Sea. Makkaveev, P.N., et al. [1995,eng] 50-3532
- Ice-ocean seasonal cycle and climate response in Hudson Bay. Soucier, F.J., et al. [1995,eng] 50-5931
- Local circulation in a fjord and exchange of water with the adjacent ocean. Asplin, L., [1995,eng] 50-4134
- Lumped-element model for subglacial transport of solute and suspended sediment. Clarke, G.K.C., [1996,eng] 50-6254
- Magnetic resonance imaging of frozen plant tissues. Gamble, G.R., [1994,eng] 50-3360
- Mixing in ice-covered lakes. Bengtsson, L., [1996,eng] 50-6579
- Natural freeze-thaw dewatering of aerated lagoon sludges. Desjardins, M.A., et al. [1996,fre] 50-5808
- New insights on large-scale oceanography in Fram Strait: the West Spitsbergen Current. Gascard, J.C., et al. [1995,eng] 50-1163
- Open-water and ice-jam flooding of a northern delta. Prowse, T.D., et al. [1994,eng] 50-5699
- Outflow of dense water from the Storfjord in Svalbard: a numerical model study. Jungclauss, J.H., et al. [1995,eng] 50-2777
- Physical limnological processes under ice. Kenney, B.C., [1996,eng] 50-6578
- Physical oceanography of fjord-coast systems in Norway. Svendsen, H., [1995,eng] 50-4132
- Physical properties governing groundwater flow in a glacial till catchment. Hinton, M.J., et al. [1993,eng] 50-3693
- Pollution distribution and hydrographic variability of the Kara Sea. Pavlov, V.K., et al. [1995,eng] 50-4557
- Possible consequences of glacially induced groundwater flow. Forsberg, C.F., [1996,eng] 50-5325
- Radionuclide tracer profiles on Arctic Ocean ice islands. Smith, J.N., et al. [1995,eng] 50-4560
- Recent history of the Bering Strait. Svitoch, A.A., et al. [1995,eng] 50-2535
- Release of brine-enriched shelf water from Storfjord into the Norwegian Sea. Schauer, U., [1995,eng] 50-574
- Resolved: the Arctic controls global climate change. Alley, R.B., [1995,eng] 50-1167
- Role of the large-scale Arctic Ocean circulation in the transport of contaminants. Schlosser, P., et al. [1995,eng] 50-4556
- Sampling-rate effects on the properties of dye breakthrough curves from glaciers. Nienow, P.W., et al. [1996,eng] 50-4903
- Seasonal solute movement in continuous permafrost. Boike, J., et al. [1995,eng] 50-2093
- Simulation of runoff processes of a continental mountain glacier in the Tian Shan, China. Kang, E.S., et al. [1995,eng] 50-2439
- Simulation of streamflow in a macroscale watershed using general circulation model data. Kite, G.W., et al. [1994,eng] 50-3820
- Sketch of hydrographic structure and circulation in the waters near Wilkes Land, Antarctica. Miao, Y.T., et al. [1989,chi] 50-6765
- Small-scale physical processes in the Arctic Ocean. Padman, L., [1995,eng] 50-1162
- Stable isotopes as hydrologic tracers in South Cascade Glacier. Vaughn, B.H., [1994,eng] 50-5546
- Storm surges in Canadian waters. Murty, T.S., et al. [1995,eng] 50-1854
- Streamflow generation in a headwater basin on the Precambrian Shield. Wells, C., et al. [1991,eng] 50-3680
- Thermohaline circulation of the Arctic Ocean and the Greenland Sea. Rudels, B., [1995,eng] 50-5234

- Topographic influence on the flow field off Lofoten-Vesterålen. Orvik, K.A., et al. [1995,eng] 50-4133
- Tracer study of glacial drainage variations in Switzerland. Nienow, P., et al. [1996,eng] 50-5580
- Transfer of European coastal pollution to the Arctic: radioactive tracers. Dahlgard, H., [1995,eng] 50-1136
- Transfer of reprocessing wastes from north-west Europe to the Arctic. Kershaw, P., et al. [1995,eng] 50-4559
- Turbine engine icing spray bar design issues. Bartlett, C.S., [1995,eng] 50-1654
- Water masses and circulation around the South Shetland Islands in summer. Yang, T.Z., et al. [1989,chi] 50-6764
- Water movement in wet snow. Gray, J.M.N.T., [1996,eng] 50-3727
- Wetlands and ground water in the United States. Stone, A.W., et al. [1994,eng] 50-971
- World's first artificial ice plug for a hydro tunnel. Berggren, A.L., et al. [1995,eng] 50-5708
- See [also]: Moisture transfer; Soil water migration
- Water treatment**
- Balancing safety and the environment. Mericas, D., et al. [1994,eng] 50-2123
- Biological phosphorus removal: effect of low temperature. Kumar, P., et al. [1996,eng] 50-4755
- Biological treatment of waste water containing glycols from de-icing agents. Nitschke, L., et al. [1996,eng] 50-3619
- Case history of a lined wastewater treatment lagoon failure. Merrill, K.S., et al. [1996,eng] 50-6150
- Cold regions infrastructure: an international imperative for the 21st century. International Conference on Cold Regions Engineering, 8th, Fairbanks, AK, Aug. 12-16, 1996, [1996,eng] 50-6106
- Cold regions utilities monograph. Third edition. Smith, D.W., ed, et al. [1996,eng] 50-6424
- Cold temperature nutrient removal from wastewater. Oleszkiewicz, J.A., et al. [1996,eng] 50-6151
- Cold-climate constructed wetlands. Mæhlum, T., et al. [1995,eng] 50-6066
- Drinking water quality in small northern communities. Smith, D.W., et al. [1996,eng] 50-6154
- Freezing purification system and method for decontamination and desalination of water. Hussainy, A.A., et al. [1995,eng] 50-3456
- Handbook for field evaluation of the 600 ROWPU winterization kit. U.S. Army Cold Regions Research and Engineering Laboratory, [1990,eng] 50-6048
- Incorporation and rejection of alum sludge flocs by an advancing freezing front. Parker, P.J., et al. [1996,eng] 50-6170
- Land application turns wastewater into ice cubes. Madison, M., et al. [1994,eng] 50-2122
- Natural freeze-thaw dewatering of aerated lagoon sludges. Desjardins, M.A., et al. [1996,fre] 50-5808
- Odor removal processes for ice-covered river runoff. Hruday, S.E., et al. [1995,eng] 50-1524
- Ottawa firm makes wastewater 'white as snow'. Kneisel, S., [1996,eng] 50-4744
- Parasitic protozoans in North Slope drinking water. Pollen, M.R., et al. [1996,eng] 50-6148
- Performance of lagoons experiencing seasonal ice cover. Price, D.S., et al. [1995,eng] 50-2124
- Potential for greater use of wetlands for waste treatment in northern Canada. Doku, I.A., et al. [1995,eng] 50-361
- Process for the treatment of a waste water stream. Janssen, J.J., et al. [1993,eng] 50-2233
- Prudhoe Bay field, Alaska, waterflood injection water quality and remedial treatment study. Hsi, C.D., et al. [1991,eng] 50-1700
- Purification kit for potabilizing meltwater. Gopal, R., et al. [1991,eng] 50-3402
- Remote monitoring and technical support for drinking water systems in remote communities. Smith, D.W., et al. [1996,eng] 50-6152
- Reverse osmosis/direct contact freezing system for desalination plants. Madani, A.A., et al. [1989,eng] 50-4611
- Spray freezing to treat oil sands tailings pond water. Gao, W., et al. [1996,eng] 50-6112
- Swedish building research in Antarctica. Swedish Council for Building Research, [1992,eng] 50-1419
- Using reed beds for winter operation of wetland treatment system for wastewater. Yin, H., et al. [1995,eng] 50-6067
- Wastewater treatment facility aeration project. Eddy, G.L., [1996,eng] 50-6149
- Wastewater treatment through atomizing freeze-crystallization. White, J.A., et al. [1995,eng] 50-3117
- See [also]: Aeration
- Water vapor**
- Antarctic atmospheric moisture values obtained from microwave radiometers. Wada, M., et al. [1992,eng] 50-3568
- Atmospheric contribution to hydrologic variations in the Arctic. Walsh, J.E., et al. [1994,eng] 50-1034
- Atmospheric water vapour budget over Greenland. Calanca, P., [1994,eng] 50-4944
- Climate dynamics and global change. Lindzen, R.S., [1994,eng] 50-5242
- Comparison of air temperature and humidity in standard and experimental shelters at Lomaciký štít. Gajar, B., et al. [1991,eng] 50-3523
- Differentiation of temperature and water vapor pressure during summer in NW Spitsbergen. Wójcik, G., et al. [1989,pol] 50-2909

Water waves

- Diode laser humidity sensor for cold environments. Phase II final technical report. Silver, J.A., et al. [1991.eng] 50-4525
- Distribution and transport of atmospheric water vapour over the arctic basin. Serreze, M.C., et al. [1995.eng] 50-5217
- Eight-year time series radiometric measurement of snow and sea ice covers. Ferraro, R.R., et al. [1996.eng] 50-5769
- Evolution of water vapor in the southern polar stratosphere. Lahoz, W.A., et al. [1996.eng] 50-5011
- Freeze protection of Florida citrus with microsprinkler irrigation. Parsons, L.R., et al. [1995.eng] 50-3074
- Further discussion on simulation of the modern arctic climate by the NCAR CCM1. Williamson, D.L., et al. [1996.eng] 50-6573
- Glacio-meteorological and isotopic studies along the EGIS line, central Greenland. Fischer, H., et al. [1995.eng] 50-1873
- Hydrogen species partitioning in the arctic stratosphere. Schiller, C., et al. [1996.eng] 50-5766
- Ice cloud microphysics in a general circulation model, pt.1. Fowler, L.D., et al. [1996.eng] 50-5015
- Ice content retrieval from clouds using Doppler radar. Sauvageot, H., [1996.eng] 50-2772
- Impact of stratospheric flight on ozone and water vapor. Rind, D., et al. [1995.eng] 50-627
- Initial assessment of multi-scale measures of CO₂ and H₂O flux in the Siberian taiga. Hollinger, D.Y., et al. [1995.eng] 50-3810
- Microwave radiometry for monitoring the diverse cloudiness regimes on Earth: a review. Katsaros, K.B., [1992.eng] 50-227
- Migration of water vapor across the boundary between snow cover and frozen soil. Golubev, V.N., et al. [1995.rus] 50-4111
- Modeling and observational study of East Antarctic surface mass balance. Connolly, W.M., et al. [1996.eng] 50-3017
- Prevention of icing in the intakes of aerospace propulsors. Scott, J.L., et al. [1991.eng] 50-2236
- Reduction of weather effects in the calculation for sea-ice concentration with the DMSP SSM/I. Cavalieri, D.J., et al. [1995.eng] 50-1867
- Refractive index of vapor-deposited ice. Brown, D.E., et al. [1996.eng] 50-5300
- Retrieval of cloud liquid water and precipitation from polarized microwave simulations. Bauer, P., et al. [1992.eng] 50-229
- Role of electrified ice meltwater in thunderstorms. Kamra, A.K., et al. [1984.eng] 50-4923
- Spectrometry of atmospheric emission over the South Pole. Van Allen, R., et al. [1996.eng] 50-4328
- Stratospheric water vapor annual cycle. Mote, P.W., [1995.eng] 50-626
- Study of H₂O contamination on a cooled optical surface. Guo, Q., et al. [1995.eng] 50-6527
- Total hydrogen budget in the arctic winter stratosphere. Engel, A., et al. [1996.eng] 50-5767
- Water vapor saturation at low altitudes around Mars aphelion: a key to Mars climate? Clancy, R.T., et al. [1996.eng] 50-5831
- Water vapor transfer through a hydrophilic film at subzero temperatures. Oszcewski, R.J., [1996.eng] 50-4498
- Water waves**
- Beach sedimentation on paraglacial coasts. Forbes, D.L., et al. [1995.eng] 50-1119
- Environmental loading studies for the CSA Offshore Structures Code. Allyn, N., et al. [1995.eng] 50-1411
- Fine structure at CTD stations of the First Chinese Southern Ocean Expedition. Fang, X.H., et al. [1989.chi] 50-6766
- Marine ecology of the Laguna San Rafael (southern Chile): ice scour and opportunism. Davenport, J., [1995.eng] 50-1105
- Prediction model for complete ice cover formation in partly open water. Sasaki, N., et al. [1996.eng] 50-4480
- Runup and overtopping of impulse waves on dams. Müller, D.R., [1995.eng] 50-858
- Survey of calving causing flood waves at the Grubengleischer. Haeberli, W., [1975.eng] 50-3952
- See [also]: Ocean waves*
- Waterproofing**
- Effectiveness of coatings on concrete under freezing and thawing conditions. Sato, T., et al. [1995.eng] 50-2669
- Evaluation of geocomposite edge drain on sand subgrade. Raymond, G.P., et al. [1996.eng] 50-5662
- Fine-grained slag sand and fly ash concrete with higher frost resistance and waterproofness. Pavlenko, S.I., et al. [1992.eng] 50-2758
- Frost resistance of surface-coated concrete. Takahashi, J., et al. [1994.jpn] 50-2834
- Open graded base to reduce thaw weakening in flexible pavements. Kestler, M.A., [1996.eng] 50-6179
- Repair measures for deteriorated abutments and piers due to frost damage. Tsutsumi, Y., et al. [1995.eng] 50-2659
- Research program for reducing frost heave with geosynthetic capillary barriers. Henry, K.S., et al. [1996.eng] 50-6129
- Study on methods to restore the performance of drainable pavements. Abe, A., et al. [1995.jpn] 50-6802
- Tests of asphalt pavements with improved drainage in cold regions. Toya, K., et al. [1995.jpn] 50-6801
- Water vapor transfer through a hydrophilic film at subzero temperatures. Oszcewski, R.J., [1996.eng] 50-4498
- Watersheds**
- A hydrochemical model for seasonally snow-covered alpine watersheds. Wolford, R.A., et al. [1996.eng] 50-4237
- Analysis of long term sulfate and nitrate budgets in a Rocky Mountain basin. Baron, J.S., et al. [1995.eng] 50-2417
- Application of a surface hydrology scheme to a watershed. Leung, L.R., et al. [1996.eng] 50-6056
- ARNO rainfall-runoff model. Todini, E., [1996.eng] 50-3729
- Assessment of hydrological changes. Hiltunen, T., [1994.eng] 50-3184
- Boreal forest catchments: research sites for global change at high latitudes. Slaughter, C.W., et al. [1995.eng] 50-767
- Changing drainage patterns within South Cascade Glacier, Washington, USA, 1964-1992. Fountain, A.G., et al. [1995.eng] 50-2431
- Channel erosion during flooding of alpine streams. Becht, M., [1996.eng] 50-5251
- Characteristics of runoff formation at the Kirgizskiy Alatau, Tien Shan. Aizen, V.B., et al. [1995.eng] 50-2435
- Chemical and isotopic tracers of snowmelt flowpaths in a subalpine watershed. Miller, E.K., et al. [1995.eng] 50-2427
- Climate change and GCM simulation of water resources from mountain snowpack. McGinnis, D.L., [1994.eng] 50-6690
- Climate change and water resources in Vuoksi watershed. Vehviläinen, B., et al. [1994.eng] 50-3195
- Climate change and water resources of watersheds in the Sierra Nevada. Pupacko, A., et al. [1992.eng] 50-3031
- Cold regions engineering research—a strategic plan. Carlson, R.F., ed. et al. [1988.eng] 50-6209
- Comparison of subglacial and extra-glacial weathering. Axtmann, E.V., et al. [1995.eng] 50-2436
- Conditions for formation and variability of flood flow of rivers in northern Tien Shan. Sumarokova, V.V., [1973.rus] 50-435
- Distributed approach to modeling snowmelt runoff in alpine catchments. Bales, R., et al. [1992.eng] 50-3030
- Distributed snowmelt modeling using a clustering algorithm. Harrington, R.F., et al. [1995.eng] 50-2409
- Effect of climate change on hydrologic regime of two climatically different watersheds. Loukas, A., et al. [1996.eng] 50-6100
- Effects of acidification on plankton biomass in high mountain lakes. Engle, D., et al. [1995.eng] 50-2149
- Effects of forest clearcutting on snow hydrology. Meng, F.R., et al. [1995.eng] 50-768
- Energy—water—mass balance and hydrological discharge. Kang, E.S., [1994.eng] 50-5576
- Fluvial sediment transfer in the Central Alps. Höfner, T., [1993.eng] 50-3335
- Forest changes in the Great Lakes region at 5-7 ka BP. Anderson, T.W., [1995.eng] 50-1456
- Glacial drainage towards the Mediterranean during the Middle and Late Pleistocene. Arkhipov, S.A., et al. [1995.eng] 50-1799
- Hydrochemical processes during snowmelt in a subalpine watershed, Colorado, USA. Peters, N.E., et al. [1995.eng] 50-2423
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995.eng] 50-3125
- Hydrochemical response of a small catchment to rain on snow. Maclean, R.A., et al. [1995.eng] 50-6043
- Hydrogeochemistry of Fraser River, British Columbia. Cameron, E.M., [1996.eng] 50-5815
- Hydrologic pathways in an alpine watershed. Mast, M.A., et al. [1995.eng] 50-2418
- Hydrological modelling of watershed snowmelt runoff. Bathurst, J.C., et al. [1996.eng] 50-3728
- Incorporating airborne data into the spatial model used to estimate snow water equivalent. Carroll, S.S., et al. [1993.eng] 50-5146
- Influence of glacial deposits on river basin sedimentation. Campo, S.H., et al. [1994.eng] 50-2997
- Isotopic tracing of nitrate sources in snowmelt runoff. Kendall, C., et al. [1995.eng] 50-2426
- Lake acidification during mountain snowmelt. Stoddard, J.L., [1995.eng] 50-4076
- Leaching of organic carbon and nitrogen from forested catchments. Kortelainen, P., et al. [1994.eng] 50-3221
- Logging effects on an aquatic ecosystem on Vancouver Island. Hetherington, E.D., [1996.eng] 50-4070
- Nitrate transport in snowmelt in the Green Mountains, northern Vermont. Daly, D.M., [1995.eng] 50-3128
- Nitrogen deposition and release in alpine watersheds, Loch Vale, Colorado, USA. Campbell, D.H., et al. [1995.eng] 50-2416
- Object-GAWSER: object-oriented Guelph all-weather storm-event runoff model. Phase 1: training manual. Hinckley, J.A., Jr., [1996.eng] 50-4545
- Organic carbon variations in stream waters during snowmelt. Boyer, E.W., et al. [1995.eng] 50-2422
- Pesticide degradation in an arctic lake and watershed. Falconer, R.L.M., et al. [1995.eng] 50-1131
- Physical properties governing groundwater flow in a glacial till catchment. Hinton, M.J., et al. [1993.eng] 50-3693
- Plant nutrient runoff in Norwegian watersheds. Haraldsen, T.K., et al. [1995.eng] 50-741
- Pollution distribution and hydrographic variability of the Kara Sea. Pavlov, V.K., et al. [1995.eng] 50-4557
- Proceedings. International Symposium on Biogeochemistry of Seasonally Snow-covered Catchments, Boulder, CO, July 1-14, 1995, [1995.eng] 50-2391
- Processes controlling the chemistry of two snowmelt-dominated streams in the Rocky Mountains. Campbell, D.H., et al. [1995.eng] 50-2545
- Radiocarbon geochemistry of modern and ancient arctic lake systems, Baffin Island, Canada. Abbott, M.B., et al. [1996.eng] 50-5190

Wave propagation

- Regional snow and water balance models. Xu, C.Y., et al. [1996.eng] 50-5835
- Relation of snowpack chemistry to streamwater composition. Shanley, J.B., et al. [1995.eng] 50-2425
- Response of leaching from mire ecosystems to changing climate. Sallantausta, T., [1994.eng] 50-3222
- Runoff and sediment yield under grazing in foothills fescue grasslands of Alberta. Naeth, M.A., et al. [1996.eng] 50-3340
- Runoff composition in a bedrock catchment watershed. Clow, D.W., et al. [1995.eng] 50-2415
- Scaling of input data for macroscale hydrologic modeling. Kite, G.W., [1995.eng] 50-2544
- Simple energy budget algorithm for the snowmelt runoff model. Kustas, W.P., et al. [1994.eng] 50-3819
- Simulation of streamflow in a macroscale watershed using general circulation model data. Kite, G.W., et al. [1994.eng] 50-3820
- Small basin modeling of snow water equivalence using binary regression tree methods. Elder, K., et al. [1995.eng] 50-2406
- Snowmelt hydrologic model of the Upper Sheep Creek watershed. Jackson, T.H.R., [1994.eng] 50-701
- Snowmelt modelling by combining air temperature and a distributed radiation index. Cazorzi, F., et al. [1996.eng] 50-5689
- Soil properties beneath ceanothus and pine stands in the eastern Sierra Nevada. Johnson, D.W., [1995.eng] 50-630
- Spatial and temporal distribution of storm precipitation in southwestern British Columbia. Loukas, A., et al. [1996.eng] 50-2603
- Stream flow hydrographic separation during watershed snowmelt. Sucker, J.K., [1995.eng] 50-2419
- Streamflow generation in a headwater basin on the Precambrian Shield. Wels, C., et al. [1991.eng] 50-3680
- Streamwater quality variations in a Colorado alpine environment. Caine, N., [1995.eng] 50-4189
- Surface water chemistry and hydrology of a small arctic drainage basin. Everett, K.R., et al. [1996.eng] 50-4847
- Surface water chemistry in alpine watersheds. Stottlemeyer, R., et al. [1995.eng] 50-2424
- Terrain and vegetation of the Innvaigt Creek watershed. Walker, D.A., et al. [1996.eng] 50-4842
- Upland watershed hydrochemical response to acidification during snowmelt. Allan, C., [1995.eng] 50-5210
- Use of remotely sensed data in the hydrological modelling of the upper Columbia watershed. Kite, G.W., [1996.eng] 50-5538
- Use of SAR satellite imagery to measure active layer moisture contents in arctic Alaska. Kane, D.L., et al. [1994.eng] 50-5695
- Use of sulfur-35 and tritium to study runoff from an alpine glacier, Wind River Range, Wyoming. Michel, R.L., et al. [1995.eng] 50-2437
- Variation in snowmelt alimentation of annual river runoff. Bolgov, M.V., et al. [1996.eng] 50-5860
- Vegetation and nutrient pools in an arctic watershed. Hahn, S.C., et al. [1996.eng] 50-4843
- Watershed hydrochemistry simulation. Ohte, N., et al. [1995.eng] 50-2410
- See [also]: River basins*
- Wave propagation**
- Acoustic emissions during ice phase transformations. Sakharov, I.I., [1995.eng] 50-157
- Acoustic response to variations of water and ice characteristics. Gavrilov, A.N., et al. [1995.eng] 50-5736
- Acoustic wave perturbations within the Barents Sea Polar Front. Lynch, J.F., et al. [1996.eng] 50-4590
- Acoustics probe sea-ice mechanics. Rajan, S.D., [1996.eng] 50-6675
- Algorithm for simulating wave propagation through sea ice. Blackowiak, A.D., et al. [1995.eng] 50-1644
- Analysis of spatial reverberation statistics in the central Arctic. LePage, K., et al. [1996.eng] 50-5191
- Backscattering through the melting layer of precipitation. Ruschenberg, H.W.J., et al. [1996.eng] 50-2699
- Behavior of crystals in kimberlite and ice under the action of shock waves. Beloborodov, V.N., et al. [1995.eng] 50-1206
- Bistatic scattering of radio waves by a melting layer of precipitation. Zhang, W., et al. [1996.eng] 50-6335
- Characteristics of sound reflected from sea ice. Aleksandrov, I.A., et al. [1995.eng] 50-3153
- Comment on "Equation of state for extrapolation of high-pressure shock Hugoniot data". Johnson, J.B., [1995.eng] 50-5592
- Comparison of ray and Fourier methods for modeling monostatic ground-penetrating radar. Zeng, X.X., et al. [1995.eng] 50-1804
- Conditions for the propagation of short-wave radio waves during ionospheric disturbances. Lukashkin, V.M., [1991.rus] 50-2263
- Conductivity effects on electromagnetic emissions (EME) from ice fracture. O'Keefe, S.G., et al. [1996.eng] 50-4221
- Coupling and propagation of elastic waves in arctic pack ice. Jarvis, S.M., et al. [1994.eng] 50-5178
- Discrete wavelet transform and the scale analysis of the surface properties of sea ice. Lindsay, R.W., et al. [1996.eng] 50-4766
- Doppler electromagnetic analysis of ice cover gravity wave oscillations. Vdovichenko, S.P., [1996.eng] 50-5703

Wave transmission

Weather forecasting

- Dynamic impact between a viscoelastic ice floe and a rigid structure. Morland, L.W., [1996,eng] 50-3824
- Dynamic testing of frozen soil sample with an exploding wire system. Fyfe, I.M., [1968,eng] 50-2029
- Effect of saline frozen ground on radio wave propagation in arctic shore regions. Frolov, A.D., et al., [1995,eng] 50-202
- Effects of floating ice cracks on propagation of flexural waves. Bukatov, A.E., et al., [1996,eng] 50-3410
- Elastic wave sensing system. Liu, Y., et al., [1995,eng] 50-3471
- Elasticity of partially saturated frozen sand. Jacoby, M., et al., [1996,eng] 50-4323
- Electro-impulse deicing of the NASA Lewis altitude wind tunnel turning vanes. Ross, R., [1988,eng] 50-4100
- Engineering repercussions of ocean wave propagation in ice-infested seas. Squire, V.A., [1995,eng] 50-176
- Fifteen years of arctic acoustics and ice camps. Von der Heydt, K., et al., [1996,eng] 50-6667
- Forward coupled-mode propagation modeling for coastal acoustic tomography. Chiu, C.S., et al., [1996,eng] 50-4589
- Glimpse beneath the ice. Plueddemann, A.J., [1996,eng] 50-6674
- Improved detection of acoustic sources in ice-riding ocean environment. Zala, C.A., et al., [1995,eng] 50-1461
- Inertial currents in the Beaufort Sea: observations of response to wind and shear. Merrifield, M.A., et al., [1996,eng] 50-4299
- Interference fringes from Bering Sea sonar images. Huggett, Q.J., et al., [1992,eng] 50-4250
- Light scattering by absorbing hexagonal ice crystals in cirrus clouds. Zhang, J.Y., et al., [1995,eng] 50-984
- Light scattering by hexagonal ice prisms. 1. Small scattering angles. Petrushin, A.G., [1994,eng] 50-2709
- Long-term trend in sea ice thickness variation in the Arctic basin. Nagurnyi, A.P., [1995,eng] 50-5479
- Measurement of seismo-acoustic ocean-bottom properties in the high Arctic. Dosso, S.E., et al., [1995,eng] 50-1837
- Measurements of the underside topography of sea ice by moored subsea sonar. Melling, H., et al., [1995,eng] 50-160
- Measuring geophysical parameters of the Greenland ice sheet using airborne radar altimetry. Ferraro, E.J., et al., [1995,eng] 50-1881
- Microwave emission from density-stratified antarctic firm at 6 cm wavelength. West, R.D., et al., [1996,eng] 50-4892
- Model of drag forces on sea ice bottom surfaces. Pite, H.D., et al., [1995,eng] 50-2740
- Nonlinear acoustic effects due to cracks in ice cover. Ekimov, A.E., et al., [1996,eng] 50-5291
- Numerical simulations of topographic Rossby waves along the East Greenland front. Maslowski, W., [1996,eng] 50-5260
- Of ocean waves and sea ice. Squire, V.A., et al., [1995,eng] 50-5241
- On radio detection of ultrahigh energy neutrinos in antarctic ice. Frichter, G.M., et al., [1996,eng] 50-4024
- On the generation of internal waves beneath sea ice by a moving load. Duffy, D.G., [1996,eng] 50-3825
- On the scattered radiation intensity fluctuations for a focused laser beam in snowfall. Vostretsov, N.A., et al., [1994,eng] 50-1285
- Polarimetric detection of objects buried in snowpack by a synthetic aperture FM-CW radar. Yamaguchi, Y., et al., [1996,eng] 50-2700
- Prediction model for complete ice cover formation in partly open water. Sasaki, N., et al., [1996,eng] 50-4480
- Propagation of sound above a finite layer of snow. Nicolas, J., et al., [1985,eng] 50-3699
- Propagation of sound from a moving airborne source in an ice-covered ocean. Grudskii, S.M., et al., [1996,eng] 50-4626
- Radio wave scattering from melting snow particles. Zhang, W., et al., [1996,eng] 50-6622
- Real-time operational forecasting on shipboard of the Icelandic-Faroe frontal variability. Robinson, A.R., et al., [1996,eng] 50-4742
- Reflection coefficient in microwave propagation over snow-covered terrain. Suzuki, M., [1956,eng] 50-3942
- Refractive index of ice in the 1.4-7.8- μ m spectral range. Gosse, S., et al., [1995,eng] 50-3358
- Response of a circular ice floe to ocean waves. Meylan, M.H., et al., [1996,eng] 50-5264
- Role of atmospheric waves in the laminated structure of ozone profiles at high latitude. Teitelbaum, H., et al., [1996,eng] 50-5871
- Runup and overtopping of impulse waves on dams. Müller, D.R., [1995,ger] 50-858
- Saline ice sheet surface scattering with controlled roughness parameters. Bredow, J.W., et al., [1995,eng] 50-982
- Size parameters of snow grains in scattering and emission models. Jin, Y.Q., [1995,eng] 50-4179
- Sliding of glacial till over bedrock. Hindmarsh, R.C.A., [1996,eng] 50-6238
- Small-scale waves encountered during AASE. Bacmeister, J.T., et al., [1990,eng] 50-5982
- Sound propagation through hydrological fronts in the Barents Sea. Aleksandrov, I.A., [1995,eng] 50-3311
- Sound reflection from ice cover. Kudriashov, V.M., [1996,eng] 50-4627
- Spaceborne radar photography of subarctic landscapes. Vachon, P.W., et al., [1995,eng] 50-4091
- Submillimeter wave attenuation in falling snow. Suzuki, M., et al., [1979,jpn] 50-3940
- Surface wave diffraction at a system of cracks in the ice cover. Goldshtein, R.V., et al., [1995,eng] 50-2949
- Temporal evolution of under ice reflectivity. Laible, H.A., et al., [1996,eng] 50-4591
- Theory of inelastic x-ray scattering by phonons in ice. Johansson, P., [1996,eng] 50-6329
- Tracer experiments to determine subglacial pressurized flow in Storglaciären. Kohler, J., [1995,eng] 50-445
- Waveform model for surface and volume scattering from ice and snow. Newkirk, M.H., et al., [1996,eng] 50-3886
- X-ray topographic study of ice crystal dislocations. Liu, F.P., et al., [1992,eng] 50-5958
- Wave transmission**
See [also]: Wave propagation
- Waves**
See [also]: Detonation waves; Elastic waves; Micro-waves; Ocean waves; Polarization (waves); Radio waves; Shock waves; Sound waves; Water waves
- Weather**
Energy characteristics of a mountain-glacier basin (in the example of the Aktru basin). Belova, N.I., [1973,rus] 50-425
- General patterns in the transformation of macroprocesses in March-August. Bolotinskaja, M.Sh., [1990,rus] 50-326
- See [also]: Meteorology
- Weather control**
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- Weather forecasting**
Advances in Qinghai-Xizang Plateau meteorology. Zhang, J.J., et al., [1988,chi] 50-2179
- Air Force Global Weather Central Surface Temperature model. Kopp, T.J., [1995,eng] 50-3300
- Aircraft icing forecasts for instrument flight rules. Bertorelli, P., [1992,eng] 50-3761
- Aircraft icing over northwest Europe. Ashley, H., [1979,eng] 50-4402
- Aircraft icing risk assessment for instrument flight rules. Bertorelli, P., [1992,eng] 50-3759
- Albedo. Kellogg, W.W., [1996,eng] 50-4974
- Alpine meteorology—conference in Engelberg, Switzerland, September 1990. Davies, H.C., [1991,eng] 50-5439
- Antarctica. Warren, S.G., [1996,eng] 50-4975
- Anti-icing: a bold new strategy. [1995,eng] 50-490
- Atmospheric observing systems and their data management support structure. Stirling, L.M., [1994,eng] 50-3414
- Aviation meteorology for visual and instrument flight rules: aircraft icing. McCool, K.B., [1992,eng] 50-3706
- Canadian Atlantic Storms Program: progress and plans of the meteorological component. Stewart, R.E., [1991,eng] 50-4416
- Classification of hailstorm systems in north China and the characteristics of hailstorm cells. Yang, P.C., et al., [1983,eng] 50-4095
- Climate change and GCM simulation of water resources from mountain snowpack. McGinnis, D.L., [1994,eng] 50-6690
- Coherent observation operators for surface data assimilation with application to snow depth. Urban, B., [1996,eng] 50-3008
- Consistent treatment of the evaporation of rain and snow for use in large-scale models. Gregory, D., [1995,eng] 50-353
- Control of avalanche risk in the Braulio Valley. Campana, M., et al., [1995,ita] 50-2600
- Cyclic fluctuations and predictability of monthly precipitation totals. Orlov, N.F., et al., [1992,rus] 50-1276
- Detection and prediction of hail with Meteosat data. Messmer, B., et al., [1995,ger] 50-2539
- Development of a climate generator for Finland. II. Posch, M., [1994,eng] 50-3227
- Development of field technology and methods for forecasting snowfall and snow cover. [1989,jpn] 50-2041
- Development of road traffic information system responsive to driver telephone requests. Horikawa, T., et al., [1993,jpn] 50-2838
- Distributed snow process modeling: an image processing approach. Davis, R.E., et al., [1995,eng] 50-3108
- Dual multiparameter radar observations of intense convective storms. Brangi, V.N., et al., [1996,eng] 50-4597
- Dual wavelength radar observations of precipitation clouds. Iwanami, K., [1995,jpn] 50-607
- ECMWF analyses and predictions of the surface climate of Greenland and Antarctica. Genthon, C., et al., [1995,eng] 50-1327
- Efficacy of ice detector hoarfrost observations. Ryerson, C.C., et al., [1996,eng] 50-4033
- Empirical study on Nimbus-7 snow mass and Indian summer monsoon rainfall. Kripalani, R.H., et al., [1996,eng] 50-6226
- Encyclopedia of climate and weather. [1996,eng] 50-4973
- Energy saving characteristics of new type road-heating system. Hokari, K., et al., [1996,eng] 50-5400
- ERS-1 SAR wind vector data from the Norwegian continental shelf. Wackernann, C.C., et al., [1994,eng] 50-1511
- Evaluation of aircraft icing forecasts for the continental United States. Politovich, M.K., et al., [1991,eng] 50-3267
- Evaluation of the proposed ASOS freezing rain sensor. Ramsay, A.C., [1996,eng] 50-4034
- Explicit cloud physics parameterization for operational numerical weather prediction. Schultz, P., [1995,eng] 50-1529
- Fargo snowstorm of 6-8 January 1989. Weisman, R.A., [1996,eng] 50-6061
- Flow patterns conducive to Wyoming mountain heavy snow. Darrow, M.A., [1995,eng] 50-6685
- Forecasting the impacts of strong wintertime post-cold front winds in the northern plains. Kapela, A.F., et al., [1995,eng] 50-350
- Freezing-rain reporting capability of the Automated Surface Observing System (ASOS). Ramsay, A.C., [1996,eng] 50-5334
- General patterns in the transformation of macroprocesses in March-August. Bolotinskaja, M.Sh., [1990,rus] 50-326
- Ground and aircraft weather observations and in-flight aircraft icing. Bernstein, B.C., et al., [1996,eng] 50-5373
- Ground-based radar for measuring snowfall rate. Houck, R.E., et al., [1995,eng] 50-3109
- Horizontal distribution of snowfall inland on Hokkaido. Lee, C.W., et al., [1972,jpn] 50-5791
- Ice prediction systems for runways. Haavasoja, T., et al., [1991,eng] 50-3268
- Ice storm data base and ice severity map. Shan, L., et al., [1996,eng] 50-5330
- International Arctic Buoy Program Meeting in Oslo. Dugan, J.P., [1992,eng] 50-3932
- Mac Weather: improved meteorological support in Antarctica. Joseph, J.E., [1994,eng] 50-4285
- Mapping of winter surface conditions at Camp Grayling, Michigan. Haugen, R.K., et al., [1992,eng] 50-738
- Mesoscale and microscale characteristics of a CASP II severe ice pellet storm. Hanesiak, J.M., [1994,eng] 50-4170
- Mesoscale and microscale structure of a severe ice pellet storm. Hanesiak, J.M., et al., [1995,eng] 50-1526
- Meteorological and snow cover information disseminated by Météo-France. Pahaut, E., [1995,fre] 50-2589
- National climatic reference base for exceptional wet snow and rime ice episodes. Raison, T., et al., [1996,eng] 50-5331
- National Weather Service observing handbook. No. 7. Surface observations. U.S. National Oceanic and Atmospheric Administration. National Weather Service. Office of Systems Operations. Observing Systems Branch, [1994,eng] 50-2452
- National winter storms operations plan. [1995,eng] 50-1073
- New ideas on aircraft icing forecast: first example and experiences. Fuchs, W., et al., [1995,eng] 50-203
- Numerical case study of a polar low in the Labrador Sea. Mahot, J., et al., [1996,eng] 50-5869
- Numerical simulation of land-breeze-induced snowbands along the western shore of Lake Michigan. Ballentine, R.L., [1982,eng] 50-3648
- Performance of equipment for traffic report management systems. Obayashi, K., et al., [1992,jpn] 50-3137
- Possibility of forecasting monthly precipitation totals on the Kola Peninsula. Orlov, N.F., [1992,rus] 50-1277
- Predicting winter weather. Williams, J., [1995,eng] 50-3686
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- Prognostic relationships for more accurate general meteorological forecasts. Vangengeim, T.G., [1990,rus] 50-327
- Program to improve aircraft icing forecasts. Sand, W.R., et al., [1991,eng] 50-3265
- Proposed icing severity index based upon meteorology. Politovich, M.K., et al., [1991,eng] 50-3263
- Radar echoes from winter monsoon clouds in Hokkaido. Kobayashi, F., et al., [1992,eng] 50-6645
- Radar image tracking and its use in a short-term snowfall prediction system. Neill, P.P., et al., [1993,eng] 50-5248
- Radar observation of cloud ice crystal alignment to predict lightning. Krehbiel, P., et al., [1996,eng] 50-4599
- Relation of traffic to climate and road icing in downtown Sapporo. Matsuzawa, M., et al., [1995,jpn] 50-6791
- Relationship of tropospheric dry layers to freezing precipitation type. Smith, G., [1995,eng] 50-6684
- Results of testing of prognostic relationships for more accurate general meteorological forecasts. Bolotinskaja, M.Sh., et al., [1990,rus] 50-328
- Road condition reporting vehicles (Part 2). Harada, N., et al., [1995,jpn] 50-6741
- Sensitivity of numerical prognoses to antarctic sea ice distribution. Watkins, A.B., et al., [1995,eng] 50-2111
- Setting verification targets for minimum road temperature forecasts. Halsey, N.G.J., [1995,eng] 50-2794
- Snow and ice control in North America. Perry, A.H., et al., [1991,eng] 50-4905
- Snow distribution in Japan. Shitara, H., [1988,jpn] 50-2045
- Software for snow data and avalanche forecasting. Dumas, J.L., et al., [1996,fre] 50-4964
- Stratospheric temperatures during AASE: results from STRATAN. Rood, R.B., et al., [1990,eng] 50-5979
- Study of heavy snowfall in Tohoku District. [1989,jpn] 50-2040
- Study on estimating snow cover. [1983,jpn] 50-2042
- Study on snowmelt runoff prediction using weekly weather forecast. Hata, S., et al., [1995,eng] 50-1959
- Study on some problems of cold waves in Xinjiang. Xu, J.Q., et al., [1985,chi] 50-2175
- Synoptic approach to forecasting lake-effect snowfall. Ellis, A.W., et al., [1996,eng] 50-6062
- Synoptic-statistical method of forecasting air temperature in the Arctic. Ivanov, V.V., [1990,rus] 50-329
- Technique for nowcasting hourly snowfall. Chappell, C.F., et al., [1991,eng] 50-3262
- Test of variant soil moisture conditions on the Canadian Global Forecast Model. Delage, Y., et al., [1995,eng] 50-1528
- U.S. FROST: Data and Science Plan. Report from the U.S. Science FROST Workshop. 2 and 3 August 1993. Bromwich, D.H., ed, et al., [1993,eng] 50-3332

Weather maps

- United States Navy operational oceanographic nowcast/forecast system. Durham, D.L., [1994,eng] 50-5176
- Urban snow disasters. Higashimura, M., [1988,jpn] 50-2047
- Use of AVHRR-derived cloudiness and precipitation in weather forecasting. Karlsson, K.-G., [1992,eng] 50-2228
- Verification and effectiveness of a method for long range meteorological forecasting in Antarctica. Rabstevich, S.V., [1990,rus] 50-330
- Video monitoring of atmospheric icing. Wareing, J.B., et al., [1995,eng] 50-204
- Warning system for snow on power lines using neural networks. Ohta, H., et al., [1996,eng] 50-5355
- Weather and climate of a high mountain pass in the Colorado Rockies. Judson, A., [1965,eng] 50-5751
- Weather forecasting for antarctic air and sea operations. Wattam, S., et al., [1995,eng] 50-5589
- Winter road surface conditions of national highways in Sapporo. Takahashi, K., et al., [1995,jpn] 50-6793
- See [also]: Frost forecasting; Ice forecasting; Long range forecasting

Weather maps

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Weather modification

- Aircraft-generated aerosols and visible contrails. Kärcher, B., [1996,eng] 50-6544
- Comments on "Production of ice particles in clouds due to aircraft penetrations". Mossop, S.C., et al., [1984,eng] 50-4917
- Comments on the Climax I and II experiments including replies to Rangno and Hobbs. Mielke, P.W., Jr., et al., [1995,eng] 50-640
- Estimation of the effect of operational seeding on rain amounts in Israel. Nirel, R., et al., [1995,eng] 50-1218
- Evaluation of the Bridger Range winter cloud seeding experiment using control gages. Super, A.B., et al., [1983,eng] 50-4637
- Hail prevention in southwestern France. Dessens, J., [1986,eng] 50-4912
- HIPEX-1: experimental design and response variables. Smith, P.L., et al., [1984,eng] 50-4918
- HIPEX-1: statistical evaluation. Mielke, P.W., Jr., et al., [1984,eng] 50-4919
- How Agl aerosol dispersion may effect cloud seeding detection. Warburton, J.A., et al., [1995,eng] 50-347
- Modeling winter storms over Arizona. Vol.2: microphysics model. Matthews, D.A., [1995,eng] 50-2799
- Modeling winter storms over Arizona. Vol.3: local-scale model. Medina, J.G., [1995,eng] 50-2800
- Modeling winter storms over Arizona. Final report—Volume I. Matthews, D.A., et al., [1995,eng] 50-2798
- On using historical comparisons in evaluating cloud seeding operations. Gabriel, K.R., et al., [1983,eng] 50-4492
- Physical interpretation of results from the HIPEX-1 experiment. Cooper, W.A., et al., [1984,eng] 50-4920
- Rocket flight cloud seeding during hail suppression experiments. Lacaux, J.P., et al., [1995,eng] 50-4971
- Seeding implications of ice crystal growth in the turbulent boundary layer. Levy, G., et al., [1984,eng] 50-4496
- Sublimation of dry ice pellets used for cloud seeding. Kochubajda, B., et al., [1985,eng] 50-4593
- Tests for persistent effects of cloud seeding in a recent Australian experiment. Bigg, E.K., [1995,eng] 50-1249
- Wintertime precipitation enhancement in the Great Dividing Range of Australia. Carter, E.J., [1994,eng] 50-686
- See [also]: Artificial precipitation; Climate control; Cloud dissipation; Cloud seeding; Fog dispersal; Hail prevention

Weather observations

- Advances in Qinghai-Xizang Plateau meteorology. Zhang, J.J., et al., [1988,chi] 50-2179
- Atmospheric observing systems and their data management support structure. Stirling, L.M., [1994,eng] 50-3414
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- Cloud observations with a polarimetric 33 GHz and 95 GHz radar. Sekelsky, S.M., et al., [1996,eng] 50-4601
- Danger by the numbers—meaningful cold weather indicators. Shacham, M., et al., [1995,eng] 50-1646
- Eight-year time series radiometric measurement of snow and sea ice covers. Ferraro, R.R., et al., [1996,eng] 50-5769
- Eking out icing info. Hamm, J., [1995,eng] 50-3687
- Encyclopedia of climate and weather. [1996,eng] 50-4973
- Establishment of the GEN Automatic Weather Station (AWS) in Khumbu region, Nepal Himalayas. Ueno, K., et al., [1996,eng] 50-5511
- Focus 2000: wind, ice, and fog. Annual Mount Washington Observatory Symposium, 4th, North Conway, NH, June 23-24, 1995, [1996,eng] 50-4027
- Frost-free record reconstruction for eastern Massachusetts, 1733-1980. Baron, W.R., et al., [1984,eng] 50-4915
- Ground and aircraft weather observations and in-flight aircraft icing. Bernstein, B.C., et al., [1996,eng] 50-5373
- Himalayan summer snow cover and withdrawal of the Indian summer monsoon. Dey, B., et al., [1985,eng] 50-4970
- Historical record of blizzards/major snow events in the British Isles, 1880-1989. Wild, R., et al., [1996,eng] 50-3961
- Hydroclimatic data by Greenland Field Investigations. Scharling, M., et al., [1995,eng] 50-2966
- Ice is where you find it. Steenblik, J.W., [1995,eng] 50-4705

- Icefield Ranges climatology program: 1965 data presentation and programming analysis. Marcus, M.G., et al., [1966,eng] 50-3975
- Major weather features at the Great Wall Station. Jiang, D.Z., et al., [1989,chi] 50-6768
- Meteorological events on the Italian Alps during the winter of 1993-94. Costantin, N., et al., [1994,ita] 50-1561
- Meteorological factors in the Himalaya Mountains, March through May. Wen, C.J., et al., [1982,chi] 50-6610
- Meteorological research applications of mm-wave radar. Kropfli, R.A., et al., [1996,eng] 50-4600
- National Weather Service observing handbook, No.7. Surface observations. U.S. National Oceanic and Atmospheric Administration. National Weather Service. Office of Systems Operations. Observing Systems Branch, [1994,eng] 50-2452
- Neumayer weather data: 1992, 1993, 1994. König-Langlo, G., et al., [1996,eng] 50-4083
- Precipitation hydrometeor characterization by a CW Doppler radar. Duvernoy, J., et al., [1996,eng] 50-5165
- Processing of Doppler weather radar data. Iwanami, K., et al., [1995,jpn] 50-608
- Record winter snowfall of 1994-95 in U.S. West. Graf, D., et al., [1996,eng] 50-4155
- Rime climate in Sodankylä. Säänti, K., et al., [1992,eng] 50-3630
- Role of January in the character of recent winters in the United States. Diaz, H.F., [1984,eng] 50-4914
- Temporal and spatial variations in hail in the upper Great Plains and Midwest. Changnon, S.A., Jr., [1984,eng] 50-4497
- Tilting at wind chills. Horstmeier, S., [1995,eng] 50-1645
- Urban hailstorms: a view from Alberta. Charlton, R.B., et al., [1995,eng] 50-3960
- Validation of ice accretion models for freezing precipitation using field data. Haldar, A., et al., [1996,eng] 50-5361
- Was it snowing snowballs? Bartlett, A.A., [1996,eng] 50-5941
- Weather in the Himalaya Mountains, March through May. Qian, Z.J., [1982,chi] 50-6609
- Weather stations**
- Accuracy of Tretyakov precipitation gauge: result of WMO intercomparison. Yang, D.Q., et al., [1995,eng] 50-3115
- Accuracy of Tretyakov precipitation gauge: result of WMO intercomparison. Yang, D.Q., et al., [1995,eng] 50-6044
- Advances in Qinghai-Xizang Plateau meteorology. Zhang, J.J., et al., [1988,chi] 50-2179
- Alternative energy at the Juan Carlos I Station. Castelli, J., et al., [1994,eng] 50-4277
- Antarctic alternative energy summary. Chiang, E., U.S. National Science Foundation. Office of Polar Programs, [1994,eng] 50-4278
- Antarctic automatic weather station data for the calendar year 1994. Keller, L.M., et al., [1996,eng] 50-5806
- Atmospheric observing systems and their data management support structure. Stirling, L.M., [1994,eng] 50-3414
- Atmospheric surface pressure over the interior of Antarctica. Radok, U., et al., [1996,eng] 50-5678
- Automated DIMM telescope for Antarctica. Dopita, M.A., et al., [1996,eng] 50-5270
- Automatic weather station for detecting desertification and climatic change. Fujitani, T., et al., [1991,jpn] 50-1438
- Buoy installation and operation in Terra Nova Bay. Cucinotta, A., et al., [1994,eng] 50-4284
- Climatic features near the Tanggula Pass in the centre of the Tibetan Plateau. Zhang, Y.S., et al., [1995,eng] 50-4513
- Climatology and perennial lake ice at Bunge Hills. Doran, P.T., et al., [1996,eng] 50-6416
- Cloud observations with a polarimetric 33 GHz and 95 GHz radar. Sekelsky, S.M., et al., [1996,eng] 50-4601
- Combined wind and ice loads from historical extreme wind and ice data. Krishnasamy, S., et al., [1996,eng] 50-5350
- Combined wind and ice loads on telecommunication towers in Quebec. Phase I. Elfashay, K., et al., [1996,eng] 50-5353
- Concurrent ozone and temperature trends derived from ozone-sonde stations. Fortuin, J.P.F., et al., [1995,eng] 50-1774
- Distribution of $\delta^{18}\text{O}$ in precipitation on the Qinghai-Xizang Plateau. Zhang, X.P., et al., [1995,eng] 50-4512
- Establishment of the GEN Automatic Weather Station (AWS) in Khumbu region, Nepal Himalayas. Ueno, K., et al., [1996,eng] 50-5511
- Focus 2000: wind, ice, and fog. Annual Mount Washington Observatory Symposium, 4th, North Conway, NH, June 23-24, 1995, [1996,eng] 50-4027
- Forecasting avalanche risks in France—assessment and perspective. Pahaut, E., et al., [1995,fre] 50-4873
- High-resolution ultraviolet spectral irradiance monitoring in polar regions. Booth, C.R., et al., [1994,eng] 50-4242
- Hydroclimatic data by Greenland Field Investigations. Scharling, M., et al., [1995,eng] 50-2966
- Icefield Ranges climatology program: 1965 data presentation and programming analysis. Marcus, M.G., et al., [1966,eng] 50-3975
- Instructions for meteorological stations and posts, Vol.3, pt.1. Meteorological observations at stations. USSR State Committee on Hydrometeorology and Environmental Control, [1985,eng] 50-5074
- Mac Weather: improved meteorological support in Antarctica. Joseph, J.E., [1994,eng] 50-4285
- Major weather features at the Great Wall Station. Jiang, D.Z., et al., [1989,chi] 50-6768
- Mean annual air temperature trends since 1904 in the South Shetland Islands. Han, J.K., et al., [1995,chi] 50-5639

- Measurements of ice and snow loads on the Tyee Lake 138 kV line. Peabody, A.B., [1996,eng] 50-5346
- Measuring wind speed in freezing rain. Claffey, K.J., et al., [1996,eng] 50-4029
- Meteorological and snow conditions, avalanches and safety in Bulgarian mountains. Mikhnevski, N., [1995,eng] 50-4665
- Prototype of a moored meteorological/oceanographic buoy for Terra Nova Bay. Gasparoni, F., et al., [1994,eng] 50-5183
- Seismic detection in classifying avalanches. Sabot, F., et al., [1995,fre] 50-4642
- Snowpack water equivalent statistic derived from an observer network. Wilks, D.S., et al., [1996,eng] 50-5199
- Solar irradiance, air pollution and temperature changes in the Arctic. Stanhill, G., [1995,eng] 50-5231
- Study of heavy snowfall in Tohoku District. [1989,jpn] 50-2040
- Temperature conditions in Iceland and the North Atlantic, 1901-1990. Einarsson, M.A., [1993,eng] 50-4770
- Validation of ice accretion models for freezing precipitation using field data. Haldar, A., et al., [1996,eng] 50-5361
- Weathering**
- Analysis of long term sulfate and nitrate budgets in a Rocky Mountain basin. Baron, J.S., et al., [1995,eng] 50-2417
- Bedrock surface weathering on Finnish fjell summits. McCarrroll, D., et al., [1996,eng] 50-5825
- Bedrock topographic effects on subglacial erosion. Rea, B.R., et al., [1996,eng] 50-6249
- Chemical characterization of crude oil residues from an arctic beach by GC/MS and GC/FID. Wang, Z.D., et al., [1995,eng] 50-1863
- Chemical weathering in high arctic soils, Spitsbergen. Blümel, W.D., et al., [1994,ger] 50-1593
- Chemical weathering of rocks in the Hecla Hoek coal formations under polar climatic conditions. Chlebowski, R., [1989,pol] 50-2882
- Comparison of subglacial and extra-glacial weathering. Aximann, E.V., et al., [1995,eng] 50-2436
- Dependence of rock stream development on geomorphological-tectonic features. Mal'chikova, I.I., [1993,rus] 50-117
- Geochemical process responses to potential Scandinavian climatic change. Dixon, J.C., et al., [1995,eng] 50-4194
- Glacial crushing, weathering and diagenetic histories of quartz grains. Mahaney, W.C., [1995,eng] 50-3595
- Glacial geology and petrography of erratics in Shackleton Range, Antarctica. Höfle, H.C., et al., [1995,eng] 50-1525
- Global chemical weathering on glacial time scales. Kump, L.R., et al., [1994,eng] 50-1239
- Hydrochemical indicators of subglacial drainage system structure. Tranter, M., et al., [1996,eng] 50-6086
- Ion chemistry controls for a Chinese river. Williams, M.W., et al., [1995,eng] 50-2604
- Landscape evolution in Antarctica. Campbell, I.B., et al., [1988,eng] 50-6526
- Lichenometric dating of arctic/alpine slope processes. McCarrroll, D., [1993,eng] 50-847
- Magnetic analysis of glacial sediment weathering. Walden, J., et al., [1995,eng] 50-6562
- Natural cleaning of oiled coarse sediment shorelines in arctic and Atlantic Canada. Owens, E.H., et al., [1994,eng] 50-6231
- New Zealand talus-derived rock glacier climatic responses. Kirkbride, M., et al., [1995,eng] 50-6561
- Nivation in the High Tatras, Poland. Rączkowska, Z., [1995,eng] 50-4193
- Northern climate weathering tests on sealed concrete. Chang, L.M., [1996,eng] 50-6119
- Nunataks of the last ice sheet in northwest Scotland. McCarrroll, D., et al., [1995,eng] 50-3366
- Oil on shorelines and shoreline treatment: a state-of-knowledge review. Owens, E.H., et al., [1996,eng] 50-5560
- Paleoclimatic change from Lake Baikal sediments. Edgington, D.N., et al., [1996,eng] 50-6633
- Paleoclimatic interpretation of rock glacier dating. Nicholas, J.W., et al., [1996,eng] 50-5577
- Pedogenesis and vegetation in desert areas of Inner Mongolia. Hattai, T., [1991,jpn] 50-1441
- Pleistocene glaciation of the Outer Hebrides, Scotland. Ballantyne, C.K., et al., [1995,eng] 50-6212
- Postglacial microbiological weathering of granite rocks monotonées. André, M.F., [1995,eng] 50-4832
- Processes controlling the chemistry of two snowmelt-dominated streams in the Rocky Mountains. Campbell, D.H., et al., [1995,eng] 50-2545
- Processes in soils and paleosols—a new method for the study of weathering. Némecz, E., et al., [1995,eng] 50-1037
- Rates of rock surface lowering. Princess Elizabeth Land, eastern Antarctica. Spate, A.P., et al., [1995,eng] 50-4149
- Requirements for heap leaching under permafrost conditions. Pitsyn, A.B., [1995,eng] 50-418
- Rock-weathering by the lichen *Lecidea auriculata* in an arctic alpine environment. McCarrroll, D., et al., [1995,eng] 50-416
- Runoff composition in a bedrock catchment watershed. Clow, D.W., et al., [1995,eng] 50-2415
- Seasonal variability in high mountain lake water chemistry. Wögrath, S., et al., [1995,eng] 50-4077
- Shoreline impacts in the Gulf of Alaska region following the Exxon Valdez oil spill. Gilfillan, E.S., et al., [1995,eng] 50-3926
- Soil/weathering rate relations from glacial sediment climatic evolution. Taylor, A., et al., [1995,eng] 50-1806

Weatherproofing

- Subglacial chemical erosion in a Swiss mountain glacier. Brown, G.H., et al. [1996.eng] 50-6236
 Subglacial meltwater composition sampled through boreholes. Lamb, H.R., et al. [1995.eng] 50-2433
 Surficial weathering fluxes and their geochemical controls. Lerman, A., [1994.eng] 50-1238
 Suspended sediment weathering in alpine glacial meltwater. Brown, G.H., et al. [1996.eng] 50-6088
 Symposium on Environmental Toxicology and Risk Assessment, 3rd, Atlanta, GA, Apr. 26-28, 1993. Exxon Valdez oil spill: fate and effects in Alaska waters [1995.eng] 50-3914
 Weathering of aeolian dusts in alpine snows. Delmas, V., et al. [1996.eng] 50-4588
 Weathering processes in marbles from Independence and Patriot Hills. Yoshikawa, K., et al. [1995.eng] 50-4383
See [also]: Frost weathering; Permafrost weathering

Weatherproofing

- Bare poles: building design for high latitudes. Strub, H., [1996.eng] 50-4963
 Cathodic protection in North America: field results in high and low temperature environments. Bennett, J.E., et al. [1995.eng] 50-2661
 Corrosion control paints for steel pipeline supports in cold regions. Nakamura, Y., et al. [1996.eng] 50-6121
 Corrosion in Anchorage homes and buildings. Hicks, R.J., [1996.eng] 50-5953
 Effects of northern shipping and storage on corrosion performance. Perrigo, L.D., III, et al. [1996.eng] 50-5952
 High-performance concrete incorporating large volumes of ASTM Class F fly ash. Bilodeau, A., et al. [1994.eng] 50-2765
 Highly elastic surface coating to protect structures exposed to coastal/marine environments. Swamy, R.N., et al. [1992.eng] 50-2753
 Migrating corrosion inhibitors for reinforced concrete. Miksic, B., et al. [1996.eng] 50-5947
 Moisture cure urethane coatings for bridges in cold wet climates. Brinton, W.J., [1996.eng] 50-5946
 Northern climate weathering tests on sealed concrete. Chang, L.M., [1996.eng] 50-6119
 Portable shelter to protect bridges under construction from snow and cold. Kobayashi, Y., et al. [1992.jpn] 50-3134
 Research report on snowproofing of houses. Uchida, Y., ed. [1984.jpn] 50-2291
 Role of industries and environmental effects on corrosion control in the North. Dutta, P.K., [1996.eng] 50-3760
 Snowproof houses Plan 50. [1986.jpn] 50-2293
 Use of a new glass-fiber rod as reinforcement for concrete structures. Chaallal, O., et al. [1992.eng] 50-2757
 Western Conference, 1996. Controlling corrosion in northern latitudes. National Association of Corrosion Engineers (NACE) International, Houston, TX. Canadian Region. [1996.eng] 50-5945

Wedges

- Base Pliocene velocity inversion on the eastern Vøring Margin—causes and implications. Reemst, P., et al. [1996.eng] 50-5316
 Cenozoic uplift of Fennoscandia inferred from a study of the mid-Norwegian margin. Stuevold, L.M., et al. [1996.eng] 50-5324
 Mass movements in glaciomarine sediments on the Barents Sea continental slope. Kuvaas, B., [1996.eng] 50-5321
See [also]: Ice wedges

Welding

- Development of procedures for hot tap welding onto sour service pipelines. Felix, R.D., et al. [1991.eng] 50-1724
 Low carbon steels for pressure vessels subject to low temperatures. Haney, F., et al. [1996.eng] 50-5956
 Manufacture and installation of duplex stainless steel line pipe for arctic application. Noble, D.N., [1996.eng] 50-5957
 Method to prevent weld zone corrosion in offshore structures. DeGeer, D.D., et al. [1991.eng] 50-1726
 Problem of plastic pipeline construction in the oil and gas industry. Zaitsev, K.I., [1995.rus] 50-1076
 Technical fleet operations. Zhukov, A.V., ed. [1992.rus] 50-18

Well casings

- Drilling smaller surface holes results in substantial cost savings. Krawietz, T.E., et al. [1991.eng] 50-1739
 Injection profiling in the Kuparuk River Field, Alaska. Scott, H.D., et al. [1991.eng] 50-1741
 Material interactions when sampling groundwater. Parker, L.V., [1995.eng] 50-2456
 New lightweight technology for the primary cementing of oil-field casings in cold environments. Harris, K.L., [1991.eng] 50-1705
 Oilwell casing downdrag from subsidence at Prudhoe Bay. Nair, K., et al. [1971.eng] 50-4196
 Salted drilling mud helps prevent casing collapse in permafrost. Kutasov, I.M., [1995.eng] 50-142
 Sorption and leaching of trace-level metals by polymeric well casings. Ranney, T.A., et al. [1996.eng] 50-5911
 World Oil's handbook of arctic well completions. Goodman, M.A., [1978.eng] 50-2057

See [also]: Drilling

Well logging

- Water resources data for Alaska, water year 1994. Bigelow, B.B., et al. [1995.eng] 50-2169

Wells

- Demonstrating brine water wells and toilets for Deering, Alaska. Lundell, R.H., [1996.eng] 50-6153

- Handling practice effects on soil sample chemistry. Hewitt, A.D., [1996.eng] 50-5962
 Internal drainage of the Werenskiöld and Torell glaciers, 1988. Řehák, J., et al. [1989.cze] 50-2920
 Material interactions when sampling groundwater. Parker, L.V., [1995.eng] 50-2456
 Prudhoe Bay field, Alaska, waterflood injection water quality and remedial treatment study. Hsi, C.D., et al. [1991.eng] 50-1700
 Snowmelt water resources from aquifers. Kimura, S., [1988.jpn] 50-2285
See [also]: Gas wells; Oil wells

Wet snow

- Climatic division of snow cover environments in Japan using the mesh climatic data. Ishizaka, M., [1995.jpn] 50-997
 Corn snow—today's skiing, tomorrow's meltwater. Colbeck, S.C., [1996.eng] 50-4758
 Corrections to paper by Shi et al. Shi, J.C., et al. [1995.eng] 50-1834
 DEM corrected ERS-1 SAR data for snow monitoring in alpine regions. Guneriusson, T., et al. [1995.eng] 50-3716
 Failures of overhead lines due to ice and wet snow in Serbia. Vučković, Z., et al. [1996.eng] 50-5365
 Forecasting avalanches from freshly fallen, snowstorm and wet snow in the Anzobskiy Pass region. Kharitonov, G.G., et al. [1991.rus] 50-12
 Galloping events and associated meteorological condition experienced in Hokuriku area. Kasima, H., et al. [1996.eng] 50-5380
 National climatic reference base for exceptional wet snow and rime ice episodes. Raison, T., et al. [1996.eng] 50-5331
 Rocky Mountain snowmelt on talus slopes by radar satellite. Maxfield, A.W., [1996.eng] 50-5544
 Seasonal radar backscatter variation from boreal forests. Pulliainen, J.T., et al. [1996.eng] 50-4765
 Simulation of wet-snow accretion by axial growth on a transmission line conductor. Poots, G., et al. [1995.eng] 50-2349
 Snow accretion and galloping on overhead transmission lines. Ozawa, A., et al. [1996.eng] 50-5371
 Snow cover and climate in Japan. Ishizaka, M., [1996.jpn] 50-6732
 Some results from geocoding and calibration of ERS-1 SAR FD images in mountainous areas. Johnsen, H., et al. [1995.eng] 50-3717
 Sub-surface melting in a seasonal snow cover. Koh, G., et al. [1995.eng] 50-1869
 Water movement in wet snow. Gray, J.M.N.T., [1996.eng] 50-3727
 Wet snow icing combined with strong wind—field inspections and field measurements. Eliasson, A.J., et al. [1996.eng] 50-5352
See [also]: Slush

Wetlands

- Aircraft measurements of the stable carbon isotopic ratio of atmospheric methane over Siberia. Sugawara, S., et al. [1996.eng] 50-6051
 Anchorage, Alaska's wetlands management plan. Salvesen, D.A., [1995.eng] 50-1683
 Classification of wetland and muskeg terrain. Pietroniro, A., et al. [1996.eng] 50-5541
 Cold-climate constructed wetlands. Møhlum, T., et al. [1995.eng] 50-6066
 Controls on CH₄ flux from an Alaskan boreal wetland. Moosavi, S.C., et al. [1996.eng] 50-6053
 Damming James Bay: I. Potential impacts on coastal climate and the water balance. Rouse, W.R., et al. [1992.eng] 50-5030
 Damming James Bay: II. Impacts on coastal marshes. Price, J.S., et al. [1992.eng] 50-5031
 Ecological classification of Michigan wetland ecosystems. Zogg, G.P., et al. [1996.eng] 50-3297
 Ecological controls on peatland methane emissions in discontinuous permafrost. Bubier, J.L., et al. [1995.eng] 50-2803
 Ground penetrating radar study of peat stratigraphy. Nobes, D.C., et al. [1992.eng] 50-63
 Impact of federal programs on wetlands, Vol.2. U.S. Department of the Interior. [1994.eng] 50-1670
 Impacts of climate variability and change on Canadian wetlands. Woo, M.K., [1992.eng] 50-4805
 Large volume oil spill on land surface: the Vozey oil field. Russia. Zolotai, S.C., et al. [1995.eng] 50-5733
 Methane emissions from wetlands at northern treeline. Rouse, W.R., et al. [1995.eng] 50-75
 Methane flux along a Siberian tundra transect. Christensen, T.R., et al. [1995.eng] 50-1334
 Methanogenesis at low temperatures by microflora of tundra wetland soil. Kotsiurbenko, O.R., et al. [1996.eng] 50-5156
 Myth of the classic hydrosere model of bog succession. Klinger, L.F., [1996.eng] 50-4331
 Organic carbon storage in the soils of the Russian Federation. Orlov, D.S., et al. [1996.eng] 50-5085
 Permafrost change in a palaeo peatland in northern Quebec, 1983-1993. Laberge, M.J., et al. [1995.eng] 50-77
 Persistence of white phosphorus particles in sediment. Walsh, M.E., et al. [1995.eng] 50-878
 Plant ecology during desertification of an arctic salt marsh. Srivastava, D.S., et al. [1996.eng] 50-4523
 Potential for greater use of wetlands for waste treatment in northern Canada. Doku, I.A., et al. [1995.eng] 50-361
 Sensor mapping of arctic wetland distribution. Morrissey, L.A., et al. [1996.eng] 50-4764

- Succession in the Hudson Bay lowland, northern Ontario, Canada. Klinger, L.F., et al. [1996.eng] 50-5491
 Summer wetlands in the frozen north. Everett, K.R., [1983.eng] 50-2501
 Suprapermafrost groundwater seepage in gravelly terrain, Resolute, NWT, Canada. Woo, M.K., et al. [1995.eng] 50-668
 Swedish Forest Information Atlas. Rosengren, M., et al. [1992.eng] 50-623
 Synopsis of Alaska wetland vegetation. Batten, A.R., [1987.eng] 50-3912
 Temporal analysis of ERS-1 SAR backscatter for hydrology applications. Crevier, Y., et al. [1996.eng] 50-5543
 Using reed beds for winter operation of wetland treatment system for wastewater. Yin, H., et al. [1995.eng] 50-6067
 Vegetation and ecology of tropical mires in the high Andes of northern Chile. Ruthsatz, B., [1995.eng] 50-4530
 Water chemistry and periphyton in an alpine wetland. Toetz, D., [1995.eng] 50-4161
 Water relations in wet sedge-moss tundra at a high arctic oasis. Nosko, P., et al. [1995.eng] 50-74
 Wetlands and ground water in the United States. Stone, A.W., et al. [1994.eng] 50-971
 Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995.eng] 50-3127
 Winter methane dynamics beneath ice and in snow in a temperate poor fen. Melloh, R.A., et al. [1995.eng] 50-4610
 Winter methane dynamics in a temperate peatland. Melloh, R.A., et al. [1996.eng] 50-6052

Wettability

- New deicing tactics: prewet with salt brine. [1996.eng] 50-3454
 Ottawa tests low-cost salt pre-wetting system. Miner, M., [1995.eng] 50-3292
 Spectroscopy of deuterium oxide ice desorption and substrate wettability. Engquist, I., et al. [1995.eng] 50-1570

Wharves

- Ice wharves sampling and analysis plan for ocean dumping. McMurdo Station, Antarctica. Crockett, A.B., [1993.eng] 50-3929
See [also]: Docks; Piers

Wheels

See [also]: Vehicle wheels

Wind (meteorology)

- Antarctic circumpolar wave in surface pressure, wind, temperature and sea-ice extent. White, W.B., et al. [1996.eng] 50-4213
 Climatic features near the Tanggula Pass in the centre of the Tibetan Plateau. Zhang, Y.S., et al. [1995.eng] 50-4513
 Description of the Martian polar cap breeze. Fernández, W., [1995.eng] 50-3671
 Foehn winds on Kaffiöyra (NW Spitsbergen). Kejna, M., [1989.pol] 50-2911
 Formation of strong winds in the Arctic in groups of homogeneously developed macroprocesses. Kuznetsov, A.V., et al. [1990.rus] 50-323
 Integral indicator of atmosphere and ocean state in the eastern Arctic. Dmitriev, A.A., et al. [1990.rus] 50-335
 Meteorological observations at Showa Station by JARE-33 in 1992. Matsuhara, K., et al. [1995.jpn] 50-4554
 Numerical simulation of the Martian polar cap breeze. Fernández, W., [1995.eng] 50-3672
 Observational study of the katabatic wind confluence zone near Siple Coast, West Antarctica. Bromwich, D.H., et al. [1996.eng] 50-4157
 Organization and results of aerological observations in the Akru mountain glacier basin. Slutskii, V.I., [1973.rus] 50-424
 Radar echoes from winter monsoon clouds in Hokkaido. Kobayashi, F., et al. [1992.eng] 50-6645
 Sea-breeze winds in Kaffiöyra (NW Spitsbergen) in the summer of 1985. Kejna, M., [1989.pol] 50-2912
 Total ozone concentrations during the antarctic spring anomaly of 1989. Bregzin, N.I., et al. [1992.rus] 50-135
 Wind gusts in northern seas. Zykova, G.G., [1992.rus] 50-1271
See [also]: Avalanche wind

Wind chill

- Danger by the numbers—meaningful cold weather indicators. Shacham, M., et al. [1995.eng] 50-1646
 Meaningful wind chill indicators derived from heat transfer principles. Brauner, N., et al. [1995.eng] 50-1552
 Tilting at wind chills. Horstmeier, S., [1995.eng] 50-1645
 Wind chill. Kalkstein, L.S., [1996.eng] 50-5002

Wind direction

- Alpine ecosystem snow depths derived from tree damage. Woolridge, G.L., et al. [1996.eng] 50-4629
 Arctic atmospheric composition during episodic air pollution. Lejenäs, H., et al. [1996.eng] 50-6710
 Arctic oceanography: the path of North Atlantic Deep Water. [1994.eng] 50-976
 Asian summer monsoon sensitivity to Eurasian snow cover. Douville, H., et al. [1996.eng] 50-5863
 Boundary-layer ozone depletion as seen in the Norwegian arctic in spring. Solberg, S., et al. [1996.eng] 50-4152
 Doppler radar analysis of a severe spring snowstorm. Shields, M.T., et al. [1993.eng] 50-5250
 ERS-1 SAR wind vector data from the Norwegian continental shelf. Wackerman, C.C., et al. [1994.eng] 50-1511
 Evolution of water vapor in the southern polar stratosphere. Lahoz, W.A., et al. [1996.eng] 50-5011
 Flow patterns conducive to Wyoming mountain heavy snow. Darrow, M.A., [1995.eng] 50-6685

Wind erosion

- Foehn winds on Kaffiöyra (NW Spitsbergen). Kejna, M., [1989, pol] 50-2911
- Formation of the winter temperature-wind complex in the Kola Bay region. Zykova, G.G., [1992, rus] 50-1275
- Greenland atmospheric aerosol composition during a foehn. Kikuchi, K., et al., [1996, eng] 50-6216
- Hailstorm in Hong Kong. Lee, B.Y., et al., [1996, eng] 50-3962
- Hailstorms in Switzerland: left movers, right movers, and false hooks. Houze, R.A., Jr., et al., [1993, eng] 50-1444
- Heat budget of a midlatitude squall line and implications for potential vorticity production. Braun, S.A., et al., [1996, eng] 50-5475
- Ice-volume forcing of East Asian winter monsoon variations in the past 800,000 years. Ding, Z.L., et al., [1995, eng] 50-965
- Katabatic winds over an East Antarctic cirque. Jonsson, S., [1995, eng] 50-1338
- Maintenance of the last great ice sheets: a UGAMP GCM study. Hall, N.M.J., et al., [1996, eng] 50-5531
- Mesoscale structures along wind-parallel bands in lake-effect snows. Krstovich, D.A.R., [1993, eng] 50-5249
- Observational studies of the role of polar regions in mid-latitude ozone loss. Jones, R.L., et al., [1995, eng] 50-3094
- Observational study of the katabatic wind confluence zone near Siple Coast, West Antarctica. Bromwich, D.H., et al., [1996, eng] 50-4157
- Potential for using wind energy on Hornsund. Skrzypczak, E., [1989, pol] 50-2908
- Radiosonde examination of synoptical scale wind/cloud dynamics. Mace, G.G., et al., [1995, eng] 50-3256
- Reflection of weather conditions in the chemistry of horizontal fog/cloud precipitation. Skvarčina, J., et al., [1991, eng] 50-3522
- Regional variations of moist static energy flux into the Arctic. Overland, J.E., et al., [1996, eng] 50-3816
- Sea-breeze winds in Kaffiöyra (NW Spitsbergen) in the summer of 1985. Kejna, M., [1989, pol] 50-2912
- Snowfall generated by surface topographic effects upon wind direction. Wesley, D.A., et al., [1995, eng] 50-1079
- Structure and evolution of winter cyclones in the central United States and their effects on the distribution of precipitation. Part II: arctic fronts. Wang, P.Y., et al., [1995, eng] 50-1565
- Synoptic approach to forecasting lake-effect snowfall. Ellis, A.W., et al., [1996, eng] 50-6062
- Thermospheric neutral winds at Watson Lake, Yukon Territory. Niciejewski, R.J., et al., [1996, eng] 50-6683
- Ventifacts as palaeo-wind indicators in southern Scandinavia. Schlyter, P., [1996, eng] 50-6698
- Wind erosion**
- Arctic wind abrasion in a former permafrost environment of southern Scandinavia. Svensson, H., [1990, eng] 50-1664
- Desertification and its control in China. Zhu, Z.D., et al., [1989, chi] 50-1851
- Effect of orbital variations on past eolian deposits. Kutzbach, J.E., [1989, eng] 50-5410
- Eolian dust in deep sea sediments from arctic pack ice. Phirman, S., et al., [1989, eng] 50-5408
- For the control of blowing snow (1)—structure of blowing snow. Takeuchi, M., [1996, jpn] 50-4930
- Ice accumulation, western Queen Maud Land. Swinbank, C., [1959, eng] 50-6203
- Japan-China Joint Study on Desertification, Apr. 1990-Mar. 1991. Japan. Science and Technology Agency. Research and Development Bureau (Kagaku gijyusochu Kenkyu kaihatyoku-oku), [1991, jpn] 50-1421
- Landscape evolution in Antarctica. Campbell, I.B., et al., [1988, eng] 50-6526
- Paleoenvironmental implications of modern periglacial eolian deposits. Dijkman, J.W.A., et al., [1991, eng] 50-5172
- Particle concentration of snow transported by wind. Martínez, H., et al., [1995, fre] 50-4643
- Rates of rock surface lowering. Princess Elizabeth Land, eastern Antarctica. Spate, A.P., et al., [1995, eng] 50-4149
- Scaling snowdrift development rate. Lever, J.H., et al., [1995, eng] 50-3114
- Scaling snowdrift development rate. Lever, J.H., et al., [1995, eng] 50-6047
- Stereo satellite image of sand particle transport in the Taklimakan Desert. Nagashima, H., [1991, jpn] 50-1433
- Transport of sand particles and dune shifting by wind in the Taklimakan Desert. Nagashima, H., [1991, jpn] 50-1431
- Transport of sand particles and dune shifting by wind in the Taklimakan Desert. Okumura, T., et al., [1991, jpn] 50-1432
- Ventifacts as palaeo-wind indicators in southern Scandinavia. Schlyter, P., [1996, eng] 50-6698
- Wind factors**
- 1990 arctic sea ice reduction related to snow cover minima. Serreze, M.C., et al., [1995, eng] 50-773
- Accuracy of Tretyakov precipitation gauge: result of WMO intercomparison. Yang, D.Q., et al., [1995, eng] 50-3115
- Accuracy of Tretyakov precipitation gauge: result of WMO intercomparison. Yang, D.Q., et al., [1995, eng] 50-6044
- Afforestation control of disastrous snow drifting on rugged terrain in Xinjiang. Hu, R.J., et al., [1994, eng] 50-4000
- Age of carbon black atmospheric aerosols over Finland. Raunemaa, T., et al., [1996, eng] 50-5257
- Altimetry of North Atlantic subpolar current variations. White, M.A., et al., [1995, eng] 50-2778
- Antarctic jets. Burkov, V.A., [1994, eng] 50-865
- Arctic atmospheric composition during episodic air pollution. Lejenäs, H., et al., [1996, eng] 50-6710

- Arctic sea ice decreases related to wind variations. Maslanik, J.A., et al., [1996, eng] 50-6511
- Arctic wind abrasion in a former permafrost environment of southern Scandinavia. Svensson, H., [1990, eng] 50-1664
- Atmospheric ice ablation processes on Mt. Equinox, Vermont. U.S.A. Ryerson, C.C., et al., [1996, eng] 50-5375
- Avalanche climatology of the continental zone in the southern Rocky Mountains. Mock, C.J., [1995, eng] 50-969
- Avalanche report 1992/93. Documentation and experts-contributions. Luzian, R., et al., [1995, ger] 50-4167
- Climatology of high-latitude air pollution as illustrated by Fairbanks and Anchorage, Alaska. Bowling, S.A., [1986, eng] 50-4910
- Comment on paper by Reid, Jr., et al. Sharp, R.P., et al., [1996, eng] 50-6540
- Comments on "The impact of the ice phase and radiation on a midlatitude squall system". Braun, S.A., et al., [1996, eng] 50-5476
- Comparison of monthly sea ice simulation models. Wu, X.R., et al., [1996, eng] 50-5451
- Correlation between atmospheric pressure anomalies and snow-pack accumulation. McCabe, G.J., Jr., et al., [1995, eng] 50-1551
- Coupled vertical and horizontal galloping—discussion. Havard, D.G., et al., [1993, eng] 50-3253
- Development of a wind turbine system for Antarctica. Kimura, S., [1992, eng] 50-3633
- Diatoms in South Pole ice: implications for eolian contamination of Sirius Group deposits. Kellogg, D.E., et al., [1996, eng] 50-3387
- Direct evidence for northward flow on the northwestern Bering Sea shelf. Overland, J.E., et al., [1996, eng] 50-5266
- Drifted snow affects momentum exchange over sea ice. Andreas, E.L., et al., [1994, eng] 50-2220
- Dynamics of the Antarctic Circumpolar Current. Ivchenko, V.O., et al., [1996, eng] 50-5157
- Effect of local wind on the dynamics of a Norwegian fjord. Leth, O.K., [1995, eng] 50-4135
- Effects of roof size on snow loads. Irwin, P.A., et al., [1995, eng] 50-3010
- Energy-balance model of lake-ice evolution. Liston, G.E., et al., [1995, eng] 50-457
- European soil thermal contraction related to ice sheet dynamics. van Vliet-Lanoë, B., [1996, fre] 50-6340
- Forecasting the impacts of strong wintertime post-cold front winds in the northern plains. Kapela, A.F., et al., [1995, eng] 50-350
- Formation of strong winds in the Arctic in groups of homogeneously developed macroprocesses. Kuznetsov, A.V., et al., [1990, rus] 50-323
- Formation of the winter temperature-wind complex in the Kola Bay region. Zykova, G.G., [1992, rus] 50-1275
- Greenland atmospheric aerosol composition during a foehn. Kikuchi, K., et al., [1996, eng] 50-6216
- Heat transfer through permeable cold-weather clothing. Kind, R.J., et al., [1995, eng] 50-1139
- Horizontal distribution of snowfall inland on Hokkaido. Lee, C.W., et al., [1972, jpn] 50-5791
- How to make a palisade: a field experiment on permafrost formation. Seppälä, M., [1995, eng] 50-874
- Ice accretion in freezing rain. Jones, K.F., [1996, eng] 50-2245
- Ice shedding from cables. Druetz, J., et al., [1995, eng] 50-1144
- Ice sheet surface features between 80 and 90S, along 90W. Yoshikawa, K., [1995, eng] 50-4386
- Icelandic turf-banked terrace geomorphology. Douglas, T.D., et al., [1996, eng] 50-5498
- Importance of the correction of precipitation measurements on the Tibetan Plateau. Ueno, K., et al., [1996, eng] 50-5775
- Inertial currents in the Beaufort Sea: observations of response to wind and shear. Merrifield, M.A., et al., [1996, eng] 50-4299
- Integral relation of atmosphere and ocean state in the eastern Arctic. Dmitriev, A.A., et al., [1990, rus] 50-335
- Interaction of katabatic winds and the formation of blue-ice areas in East Antarctica. Van den Broeke, M.R., et al., [1995, eng] 50-459
- Laboratory testing of air retarders in metal building panels. Flanders, S.N., et al., [1995, eng] 50-1980
- Late Quaternary flux of eolian dust to the pelagic ocean. Rea, D.K., et al., [1994, eng] 50-1242
- Local circulation in a fjord and exchange of water with the adjacent ocean. Asplin, L., [1995, eng] 50-4134
- Meltwater event in the North Atlantic during last glacial maximum. Seidov, D., et al., [1996, eng] 50-6217
- Model for spraying and three-dimensional icing on a stern trawler. Chung, K.K., et al., [1995, eng] 50-2955
- Model for the development of sod-podzolic soils by windthrow. Vasenev, I.I., et al., [1995, eng] 50-2712
- Modeling the influence of ice on sea level variations in the Baltic Sea. Zhang, Z.H., et al., [1995, eng] 50-6758
- Modelling mechanism of wind-induced damage of Scots pine. Petola, H., [1994, eng] 50-3212
- Natural chemiluminescence of the marine environment under conditions of polar day and night. Lapshin, A.I., [1991, rus] 50-1315
- North-East Water polynya: satellite observations summer 1992 and 1993. Gudmandsen, P., et al., [1995, eng] 50-1814
- Numerical simulations of topographic Rossby waves along the East Greenland front. Maslowski, W., [1996, eng] 50-5260
- O₃ and NO₂ fluxes over snow measured by eddy correlation. Stocker, D.W., et al., [1995, eng] 50-2151

Wind power generation

- Observation of momentum and heat transfers between ocean and atmosphere in the Chukchi Sea. Sasaki, Y., et al., [1996, eng] 50-4479
- Observation of snowfall and airflow over a low mountain barrier. Nakai, S., et al., [1995, eng] 50-341
- On the ice-ocean response to wind forcing. Omstedt, A., et al., [1996, eng] 50-6666
- On the snowfall at Aomori City due to orographic convergent winds. Rikiishi, K., et al., [1995, jpn] 50-1170
- Ozone layer concentration over the Weddell Sea. Elanskii, N.F., et al., [1995, eng] 50-6328
- Perturbation-based finite element analyses of transmission line galloping. Desai, Y.M., et al., [1996, eng] 50-4291
- Physical oceanography of fjord-coast systems in Norway. Svendsen, H., [1995, eng] 50-4132
- Preconditioning the Greenland Sea for deep convection: ice formation and ice drift. Visbeck, M., et al., [1995, eng] 50-567
- Prediction model for complete ice cover formation in partly open water. Sasaki, N., et al., [1996, eng] 50-4480
- Pressure cutoff effects on polar stratospheric chemistry. Cerniglia, M.C., et al., [1995, eng] 50-588
- Real time oil spill forecasting during an experimental oil spill in the arctic ice. Reed, M., et al., [1994, eng] 50-1685
- Recent responses of Chilean glaciers to climatic changes. Holmlund, P., et al., [1995, eng] 50-1868
- Relationship between atmospheric circulation and antarctic ozone depletion. Butchart, N., et al., [1996, eng] 50-3963
- Release of brine-enriched shelf water from Storfjord into the Norwegian Sea. Schauer, U., [1995, eng] 50-574
- Remote sensing of sea ice variations in response to atmospheric circulation. Maslanik, J.A., et al., [1995, eng] 50-1815
- Response of alpine vegetation canopy to experimental wind barrier. Smith, B., et al., [1996, eng] 50-3786
- Role of North Atlantic margin uplift in Cenozoic glaciation. Eyles, N., [1996, eng] 50-3386
- Rotatable shortwave curtain antenna operable at very high wind speeds. Bruger, P., et al., [1996, eng] 50-6621
- Satellite radar survey of Japan Sea ice processes. Martin, S., et al., [1995, eng] 50-1810
- Seasonal simulation of the southern ocean coupled ice-ocean system. Häkkinen, S., [1995, eng] 50-2113
- Seed rain, seedling establishment and clonal growth strategies on a glacier foreland. Stöcklin, J., et al., [1996, eng] 50-5295
- Seeding implications of ice crystal growth in the turbulent boundary layer. Levy, G., et al., [1984, eng] 50-4496
- Simple model for freezing rain ice loads. Jones, K.F., [1996, eng] 50-5399
- Simulation and analysis of upper Niagara River ice-jam conditions. Wang, D.S., et al., [1995, eng] 50-356
- Simulation and observation of ice formation (freeze-over) in a lake. Fang, X., et al., [1996, eng] 50-5466
- Simulation of arctic stratospheric response to aerosol perturbations. Zhao, X.P., et al., [1996, eng] 50-6680
- Simulation of the mixed-layer circulation in the Arctic Ocean. Holland, D.M., et al., [1996, eng] 50-2843
- Sliding rocks at the Racetrack, Death Valley: what makes them move. Reid, J.B., Jr., et al., [1995, eng] 50-1106
- Snow accumulation and transport dynamics on the Ross Ice Shelf. Braaten, D.A., [1994, eng] 50-2219
- Snow damage to spruce trees during a fertilization experiment. Valinger, E., et al., [1996, eng] 50-4330
- Snow hardness variations in Patriot Hills. Harada, K., et al., [1995, eng] 50-4387
- Snow-drift modelling and control. Ring, S.L., [1991, eng] 50-4906
- Snowfall distribution on the seaside of Hokkaido, Japan. Tachibana, Y., [1995, eng] 50-342
- Some effects of conductor twisting on galloping. Richardson, A.S., Jr., [1980, eng] 50-3698
- Spatial distribution of snow chemical load at the tundra-taiga transition. Pomeroy, J.W., et al., [1995, eng] 50-2412
- Stability criteria in avalanche hazard forecasting. Perla, R.I., [1969, eng] 50-4260
- Storm surges in Canadian waters. Murty, T.S., et al., [1995, eng] 50-1854
- Subgrid parameterization of surface heat and momentum fluxes over polar oceans. Vihma, T., [1995, eng] 50-2110
- Swedish Antarctic Research Programme, 1989/90: a cruise report. Reuterskiöld, M., [1992, eng] 50-1418
- Temperature regime of artificially compacted snow of the Molozhnyaya runway. Nazarov, V.D., [1992, rus] 50-147
- Topographical influence on Himalayan snow cover distribution. Singh, P., et al., [1995, eng] 50-4012
- Ventifacts as palaeo-wind indicators in southern Scandinavia. Schlyter, P., [1996, eng] 50-6698
- Wind events compared with polynya area estimates derived from SSM/I data. Markus, T., et al., [1993, eng] 50-5596
- Wind forcing of marine primary production in the northern atmospheric low-pressure belt. Sakshaug, E., et al., [1995, eng] 50-4130
- Wind gusts in northern seas. Zykova, G.G., [1992, rus] 50-1271
- Wind slabs: new data. Duclos, A., [1995, fre] 50-2585
- Wind-induced ice floe rotation and icequakes north of the Alaskan Beaufort Sea coast. Kozo, T.L., et al., [1996, eng] 50-6508
- Wind power generation**
- Alternative energy at the Juan Carlos I Station. Castellvi, J., et al., [1994, eng] 50-4277
- Development of a wind turbine system for Antarctica. Kimura, S., [1992, eng] 50-3633

Wind pressure

- Evaluating the effects of icing on wind turbines. Walsh, M., [1992,eng] 50-3636
- Experiences of wind gauges used for measurements in cold regions. Tammelin, B., [1992,eng] 50-3637
- Heated anemometer for atmospheric icing environments. Kenyon, P.R., et al., [1992,eng] 50-3638
- Icing of wind turbine rotor blades during operation. Seifert, H., [1992,eng] 50-3631
- Icing test and rework of WECS for use on Lapland's fjells. Böhmke, G., et al., [1992,eng] 50-3635
- Improved numerical model for wind turbine icing. Finstad, K.J., et al., [1996,eng] 50-5391
- Potential for using wind energy on Hornsund. Skrzypczak, E., [1989,pol] 50-2908
- Proceedings. International Experts' Meeting on Wind Power in Icing Conditions, Helsinki, Finland, 1992. Boreas-North Wind-Pohjatuuli, [1992,eng] 50-3626
- Producing energy for polar stations from the wind-water temperature gradient. LeGoff, H., et al., [1994,eng] 50-4275
- Prospects for the industrial use of wind power on the Kola Peninsula. Minin, V.A., et al., [1992,rus] 50-710
- Rime accretion on the fells. Tammelin, B., et al., [1992,eng] 50-3639
- Rime climate in Sodankylä. Säänti, K., et al., [1992,eng] 50-3630
- Russian alternative energy sources in the Antarctic. Sheinstein, A.S., [1994,eng] 50-4276
- Status report on alternative energy systems at antarctic stations. Guichard, A., [1994,eng] 50-6423
- Structure-independent measurement of icing. Makkonen, L., [1992,eng] 50-3629
- Towards new energy systems for antarctic stations. Guichard, A., [1994,eng] 50-4274
- Turbine blade icing model. Finstad, K.J., et al., [1992,eng] 50-3628
- Wind energy research in NEMO—research program. Peltola, E., [1992,eng] 50-3627
- Wind turbines in northern climates—Canadian experiences. Brothers, C., [1992,eng] 50-3634
- Wind pressure**
- Anemometer for transmission line maintenance in heavy icing areas. Ozawa, A., et al., [1996,eng] 50-5395
- Cable galloping model for thin ice accretions. McComber, P., et al., [1996,eng] 50-5381
- Cable twisting due to atmospheric icing. McComber, P., et al., [1995,eng] 50-205
- Calibration of anemometers for use in icing conditions. Makkonen, L., et al., [1996,eng] 50-5348
- Choosing the route of overhead lines in the Czech Republic. Zálesák, Z., et al., [1996,eng] 50-5398
- Combined wind and ice loads from historical extreme wind and ice data. Krishnasamy, S., et al., [1996,eng] 50-5350
- Combined wind and ice loads on telecommunication towers in Quebec. Phase I. Elfashny, K., et al., [1996,eng] 50-5353
- Comparison of glaze and in-cloud icing events on a test line. Druze, J., et al., [1995,eng] 50-2951
- Design of girders for a bridge in Hokkaido subject to snow and wind. Endo, T., et al., [1995,jpn] 50-6807
- Effect of ice and atmospheric pressure on insulator flashover. Shu, L.C., et al., [1996,eng] 50-5388
- Effect of icing on the dynamic behaviour of guyed antenna towers. Wahba, Y.M.F., et al., [1996,eng] 50-5378
- Effects of wind, snow and ice on fiber optic overhead lines. Waring, J.B., [1996,eng] 50-5349
- Experience and analysis of galloping phenomenon in overhead transmission lines in Iran. Javahermandesh, M., [1996,eng] 50-5404
- Fifteen years field trials of galloping controls for overhead power lines. Havard, D.G., [1996,eng] 50-5382
- Galloping events and associated meteorological condition experienced in Hokuriku area. Kasima, H., et al., [1996,eng] 50-5380
- Galloping of iced electrical transmission lines. Popplewell, N., et al., [1996,eng] 50-5377
- Galloping on overhead transmission test lines with artificial snow. Ozawa, A., et al., [1996,eng] 50-5379
- Ice and snow damage to high voltage overhead lines in Romania. Goia, L.M., et al., [1996,eng] 50-5366
- Ice risk levels—a practical approach to design. Støttrup-Andersen, U., [1996,eng] 50-5354
- Ice shedding effects on an overhead transmission line. Jamaledine, A., et al., [1996,eng] 50-5337
- Improved numerical model for wind turbine icing. Finstad, K.J., et al., [1996,eng] 50-5391
- Joint probability of environmental loads on marine structures. Liu, D.F., et al., [1995,eng] 50-196
- Methods to estimate ice accumulations on surface structures. Schaub, W.R., Jr., [1996,eng] 50-5360
- Modeling power line icing in freezing precipitation. Makkonen, L., [1996,eng] 50-5362
- Numerical study of iced conductors aerodynamics. Ilincă, A., et al., [1996,eng] 50-5336
- Polish design standards for transmission line icing. Dembicki, E., et al., [1996,eng] 50-5396
- Proceedings. IWAIS '96. International Workshop on Atmospheric Icing of Structures, 7th, Chicoutimi, Quebec, June 3-7, 1996, [1996,eng] 50-5329
- Romanian experience in meteorological zoning for designing of overhead lines (OLs). Goia, L.M., [1996,eng] 50-5332
- Snow accretion and galloping on overhead transmission lines. Ozawa, A., et al., [1996,eng] 50-5371

- Telemonitoring of climatic loads on Hydro-Québec 735 kV lines. Hardy, C., et al., [1996,eng] 50-5358
- Validation of ice accretion models for freezing precipitation using field data. Haldar, A., et al., [1996,eng] 50-5361
- Wet snow icing combined with strong wind—field inspections and field measurements. Eliasson, Å.J., et al., [1996,eng] 50-5352
- Wind tunnels**
- Automated wind tunnel measurements. Stumpf, P., et al., [1994,eng] 50-3689
- Characteristics of surface roughness associated with leading-edge ice accretion. Shin, J.W., [1996,eng] 50-4407
- Contrast between natural and simulated snowdrift experiments. Naaim-Bouvet, F., [1995,eng] 50-1063
- Effects of anti-icing fluid on wing lift during supercooled precipitation. Bouchard, G., et al., [1995,eng] 50-3255
- Electro-impulse deicing of the NASA Lewis altitude wind tunnel turning vanes. Ross, R., [1988,eng] 50-4100
- Experimental closure of the heat and mass transfer theory of spheroidal hailstones. Greenan, B.J.W., et al., [1995,eng] 50-2117
- Heat transfer through permeable cold-weather clothing. Kind, R.J., et al., [1995,eng] 50-1139
- Icing of wind turbine rotor blades during operation. Seifert, H., [1992,eng] 50-3631
- Limits of wind-tunnel modeling of snow accumulations. Naaim-Bouvet, F., [1995,eng] 50-4667
- Mechanical behavior of 18 Ni 200 grade maraging steel at cryogenic temperatures. Wagner, J.A., [1986,eng] 50-4101
- Microstructure and mechanical properties of some small impact ice accretions. Hammond, D.W., [1996,eng] 50-5339
- Scaling snowdrift development rate. Lever, J.H., [1995,eng] 50-3114
- Scaling snowdrift development rate. Lever, J.H., et al., [1995,eng] 50-6047
- Sublimation of dry ice pellets used for cloud seeding. Kochubajda, B., et al., [1985,eng] 50-4593
- Temperature dependence of static charging in ice growing by riming. Avila, E.E., et al., [1995,eng] 50-3004
- Turbine blade icing model. Finstad, K.J., et al., [1992,eng] 50-3628
- Wind tunnel experiments on snowbreaks for Hokkaido highways. Sasaki, M., et al., [1995,jpn] 50-6798
- Wind tunnel tests of ice-free anemometer. Motycka, J., et al., [1985,eng] 50-484
- Wind velocity**
- 1989 AASE temperature and wind measurements. Chan, K.R., et al., [1990,eng] 50-5980
- Acoustic sounder measurements of the planetary boundary layer at Maitri, Antarctica. Naitani, J., et al., [1995,eng] 50-4208
- Alone: the classic polar adventure. Byrd, R.E., [1995,eng] 50-2851
- Alpine ecosystem snow depths derived from tree damage. Woolridge, G.L., et al., [1996,eng] 50-4629
- Antarctic automatic weather station data for the calendar year 1994. Keller, L.M., et al., [1996,eng] 50-5806
- Bioclimatic conditions in the region of Arcowski Station during the summer period. Styszyńska, A., [1989,pol] 50-2931
- Case study of turbulent parameters during the antarctic winter. Yagüe, C., et al., [1995,eng] 50-1339
- Differentiation of temperature and water vapor pressure during summer in NW Spitsbergen. Wójcik, G., et al., [1989,pol] 50-2909
- Doppler spectroscopy of antarctic wind velocities. Nakajima, H., et al., [1995,eng] 50-3811
- ERS-1 SAR wind vector data from the Norwegian continental shelf. Wackerman, C.C., et al., [1994,eng] 50-1511
- Estimation of snowmelt volume using air temperature and wind speed. Hasebe, M., et al., [1995,eng] 50-1958
- Experiences of wind gauges used for measurements in cold regions. Tammelin, B., [1992,eng] 50-3637
- Foehn winds on Kaffiöyra (NW Spitsbergen). Kejna, M., [1989,pol] 50-2911
- Formation of strong winds in the Arctic in groups of homogeneously developed macroprocesses. Kuznetsov, A.V., et al., [1990,rus] 50-323
- Formation of the winter temperature-wind complex in the Kola Bay region. Zykova, G.G., [1992,rus] 50-1275
- Heat flux over a melting Greenland ice sheet. Braithwaite, R.J., [1995,eng] 50-1877
- How to measure the wind accurately in icing conditions. Kenyon, P.R., et al., [1996,eng] 50-4030
- Icing of wind turbine rotor blades during operation. Seifert, H., [1992,eng] 50-3631
- Integral indicator of atmosphere and ocean state in the eastern Arctic. Dmitriev, A.A., et al., [1990,rus] 50-335
- Measuring wind speed in freezing rain. Claffey, K.J., et al., [1996,eng] 50-4029
- Modelling mechanism of wind-induced damage of Scots pine. Peltola, H., [1994,eng] 50-3212
- Numerical case study of a polar low in the Labrador Sea. Mailhot, J., et al., [1996,eng] 50-5869
- Objective determination of the polar vortex using Ertel's potential vorticity. Nash, E.R., et al., [1996,eng] 50-5452
- Observation of momentum and heat transfers between ocean and atmosphere in the Chukchi Sea. Sasaki, Y., et al., [1996,eng] 50-4479
- Observational study of the katabatic wind confluence zone near Siple Coast, West Antarctica. Bromwich, D.H., et al., [1996,eng] 50-4157

Winter concreting

- Organization and results of aerological observations in the Aktru mountain glacier basin. Slutskii, V.I., [1973,rus] 50-424
- Potential for using wind energy on Hornsund. Skrzypczak, E., [1989,pol] 50-2908
- Proceedings. International Experts' Meeting on Wind Power in Icing Conditions, Helsinki, Finland, 1992. Boreas-North Wind-Pohjatuuli, [1992,eng] 50-3626
- Reestablishing periodic meteorological values at an avalanche station. Kharitonov, G.G., [1991,rus] 50-11
- Regional variations of moist static energy flux into the Arctic. Overland, J.E., et al., [1996,eng] 50-3816
- Role of atmospheric waves in the laminated structure of ozone profiles at high latitude. Teitelbaum, H., et al., [1996,eng] 50-5871
- Sea-breeze winds in Kaffiöyra (NW Spitsbergen) in the summer of 1985. Kejna, M., [1989,pol] 50-2912
- Sensible heat flux measurements near a cold surface. Yen, Y.-C., [1995,eng] 50-879
- Small-scale waves encountered during AASE. Bacmeister, J.T., et al., [1990,eng] 50-5982
- Snow identification from radar wind profiler spectra. Ralph, F.M., et al., [1996,eng] 50-5163
- Tilting at wind chills. Horstmeier, S., [1995,eng] 50-1645
- Transfer coefficients of radon-222 across the sea surface. Kholuiskii, S.N., et al., [1995,rus] 50-4120
- Turbulent transfer over an antarctic ice shelf. Vinje, T.E., [1969,eng] 50-3953
- Wind gusts in northern seas. Zykova, G.G., [1992,rus] 50-1271
- Wind measurements at Ylläs broadcasting station 1982-1991. Lehtonen, P., [1992,eng] 50-3632
- Wind velocities and frequency of its hourly values at Arcowski Station. Wójcik, G., et al., [1989,pol] 50-2903
- Windbreaks**
- Snow fences in Hokkaido to improve visibility. Fukuzawa, Y., et al., [1995,jpn] 50-6799
- Wind tunnel experiments on snowbreaks for Hokkaido highways. Sasaki, M., et al., [1995,jpn] 50-6798
- Windows**
- Windshield defroster. Yoshikawa, H., et al., [1987,eng] 50-2242
- Winter**
- Reconstruction of the ice winter severity since 1701 in the western Baltic. Kosłowski, G., et al., [1995,eng] 50-1957
- Role of January in the character of recent winters in the United States. Diaz, H.F., [1984,eng] 50-4914
- Winter surface energy budget in Denver, Colorado. Ruffieux, D., [1995,eng] 50-2152
- Winter concreting**
- Antifreezes and frost resistance of concrete at early ages. Hama, Y., et al., [1995,eng] 50-2682
- Asphaltic compositions and uses thereof. Long, H.W., [1995,eng] 50-3465
- Assessment of frost damage of concrete and its repair technique. Tsukinaga, Y., et al., [1995,eng] 50-2673
- Basic properties of expansive admixture with anti-freezing admixture in a grout. Nakamura, H., et al., [1995,eng] 50-2643
- Belite-based low-heat cement for low temperature environments. Hirose, S., et al., [1995,eng] 50-2652
- Concrete mixture proportioning techniques for remote Alaskan locations. Nichols, M.R., et al., [1995,eng] 50-2671
- Concrete under severe conditions: environment and loading. Sakai, K., ed, et al., [1995,eng] 50-2618
- Concrete/reinforcing steel bond strength of low-temperature concrete. Schroeder, H.P., et al., [1996,eng] 50-4757
- Development of high-range antifreezing, water-reducing agent. Saitoh, K., et al., [1995,eng] 50-2645
- Effects of superplasticizers on the properties of cement mortar in cold environments. Sugiyama, M., et al., [1995,eng] 50-2648
- Energetically modified cement (EMC) for high performance concrete in winter concreting. Ronin, V., et al., [1995,eng] 50-2666
- Fixing frozen leaks in a dam in Hokkaido. Takada, K., et al., [1995,jpn] 50-6738
- Freeze-thaw durability of concrete cured below 0°C using anti-freeze admixtures. Mason, M.R., et al., [1996,eng] 50-6122
- Frost-resistant autoclaved lightweight concrete. Hama, Y., et al., [1993,jpn] 50-3484
- High-performance concrete: low-heat and high-strength. Sakai, K., et al., [1994,eng] 50-2766
- High-strength concrete for low temperature environment by using silica fume. Amaya, T., et al., [1995,eng] 50-2649
- Improvement of surface layer strength of concrete by using a special curing sheet. Sugawara, T., et al., [1992,eng] 50-2760
- Low-heat high-strength concrete using admixtures in a low temperature environment. Horibe, K., et al., [1995,eng] 50-2646
- Low-heat high-strength superplasticized concrete. Arashima, T., et al., [1995,eng] 50-2647
- Low-temperature period countermeasures during concrete jacking of the Satsunagawa Dam. Yasunaka, S., et al., [1995,jpn] 50-6737
- Minimum thermal protection for cold weather masonry. Korhonen, C.J., et al., [1996,eng] 50-6118
- Mix design of air-entrained, high-performance concrete. Lessard, M., et al., [1995,eng] 50-2670
- Private companies subcontract to CRREL. Chalmers, P., [1995,eng] 50-1099

Winter construction

- Proceedings. International Conference on Engineering and Development in Northern Regions. Sapporo, Japan, Jan. 31-Feb. 2, 1983. [1984.eng] 50-3158
Properties of belite type low-heat cement at low temperatures. Igarashi, H., et al. [1995.eng] 50-2651
Properties of concrete with highly pulverized blast-furnace slag. Wakasugi, S., et al. [1995.eng] 50-2650
Rapid hardening additive of chloride-free under low temperature environments. Ashida, M., et al. [1995.eng] 50-2642
Roller compacted concrete for a cold region dam. Yasunaka, S., et al. [1995.eng] 50-2679
Study on thermos curing of concrete under winter conditions in Bulgaria. Valev, V., et al. [1995.eng] 50-2667
Sulphur concrete for use in cold regions. Vroom, A.H., [1984.eng] 50-3159
Temperature influence on concrete structures and its hardening. Krylov, B.A., et al. [1995.eng] 50-2668

Winter construction

See [also]: Cold weather construction

Winter maintenance

- Algorithm for optimizing road salting routes. Li, L.Y.O., et al. [1996.eng] 50-4011
Automated nowcasting model of road surface temperature and state for winter road maintenance. Shao, J., et al. [1996.eng] 50-6571
Cold climate concerns. Part 2. Infrastructure planning and maintenance. Ryan, W.L., [1995.eng] 50-1077
Costs and benefits of winter maintenance. Durth, W., [1995.eng] 50-2023
County improves its snow and ice control program. da Cunha, M., [1996.eng] 50-6101
Device for the removal of snow and ice from road pavements. Veters, V.I., et al. [1992.rus] 50-1934
Frost heave prediction in the Netherlands. Post, H.J., [1981.eng] 50-2140
Ground deicing. George, F., [1995.eng] 50-3688
Handling snow on the New Jersey Turnpike. Pagan, A.R., [1995.eng] 50-3859
How to battle snow and ice. Askew, D., [1995.eng] 50-3858
Indiana streamlines permitting and ice/snow removal. Pinman, R., [1996.eng] 50-3495
Iowa tests anti-icing strategies. [1995.eng] 50-1557
Manual for highway winter anti-icing practices. Ketcham, S.A., et al. [1996.eng] 50-6060
Maryland State Highway Administration tallies record winter. Kassoff, H., [1996.eng] 50-6103
New deicing tactics: prewet with salt brine. [1996.eng] 50-3454
New salting methods on UK highways. Cruickshank, J., [1996.eng] 50-4366
PennDOT responds to the challenges of January's blizzards and flooding. Chizmar, S., [1996.eng] 50-6102
Results of black ice inhibiting filler use on asphalt test sections. Arand, W., [1995.eng] 50-2841
Roof blisters: cause and cure. Korhonen, C.J., et al. [1995.eng] 50-394
Snow and ice control in North America. Perry, A.H., et al. [1991.eng] 50-4905
Snow and ice control. Minnesota. Office of the Legislative Auditor. [1995.eng] 50-3596
Snow-drift modelling and control. Ring, S.L., [1991.eng] 50-4906
Some innovations in snow and ice control equipment. [1995.eng] 50-4156
Spreader of choice for Michigan's snow-bound Upper Peninsula. Haag, J., [1995.eng] 50-1086
Study of concrete bridges exposed to deicing salts. Novokshchenov, V., [1989.eng] 50-4225
Tests clear snow, path for use of liquid anti-icing in northwest. Deep, D., et al. [1995.eng] 50-1954
What you need to know about prewetting deicers. Mergenmeier, A., [1995.eng] 50-3857
Winter maintenance and chemical shortages. Pagan, A.R., [1995.eng] 50-1558
Winter maintenance: back to the basics. [1995.eng] 50-3856
Winter operations: keeping crews safe. [1995.eng] 50-3291
Zero-velocity deicer spreaders clear more roadway for less. Banasiak, D., [1995.eng] 50-3675

See [also]: Snow removal

Winter operation

See [also]: Cold weather operation

Winter performance

See [also]: Cold weather performance

Winter road service

See [also]: Road maintenance; Snow removal; Winter maintenance

Wood

- Anatomy of tropical alpine plants. Carlquist, S., [1994.eng] 50-3049
Durability of cement-bonded particleboard. De Souza, M.R., [1994.eng] 50-687
Origin of the arctic driftwood—a dendrochronological study. Eggertsson, Ö., [1994.eng] 50-3851
Origin of the driftwood on the coasts of Iceland; a dendrochronological study. Eggertsson, Ö., [1993.eng] 50-4771
Postglacial sea-level history of Edgeøya and Barentsøya, eastern Svalbard. Bondevik, S., et al. [1995.eng] 50-4715

Wood snow friction

- Coefficient of kinetic friction between ski and snow. Leino, M.A.H., et al. [1984.eng] 50-3838
Measurements of friction between snow and ski running surfaces. Part 2. Palosuo, E., et al. [1979.fin] 50-4025

- Optimal structural damping of skis using a genetic algorithm. Marcelin, J.L., et al. [1995.eng] 50-890
Optimization of a racing ski. Carlsson, P., et al. [1995.eng] 50-891

- Sliding of skis. Midol, A., et al. [1986.fre] 50-487

Wooden structures

- Research report on snowproofing of houses. Uchida, Y., ed. [1984.jpn] 50-2291

X ray analysis

- Behavior of point defects in ice crystals revealed by X-ray topography. Hondoh, T., et al. [1982.eng] 50-5800
Chemical characterization of individual aerosol particles in central Siberia. Van Malderen, H., et al. [1996.eng] 50-4966
Clay mineral signature of the NW Atlantic Boundary Undercurrent. Fagel, N., et al. [1996.eng] 50-4822
Coupling PIXE and SEM/EDAX for characterizing atmospheric aerosols in ice-cores. Laj, P., et al. [1996.eng] 50-6324
Effect of X-radiation on the plastic deformation of ice. Hu, X.H., et al. [1996.eng] 50-5866
Holocene debris-flow activity in northern Sweden. Jonasson, C., [1993.eng] 50-837
Low-temperature amorphous phase in a fragile glass-forming substance. Cohen, I., et al. [1995.eng] 50-5971
New laser plasma source for extreme-ultraviolet lithography. Jin, F., et al. [1995.eng] 50-3678
Observation of slip transmission through a grain boundary in ice. Jia, K., et al. [1996.eng] 50-5297
Rapid screening of metals using portable high-resolution x-ray fluorescence spectrometers. Hewitt, A.D., [1995.eng] 50-1075
Role of uncompressed alcohol monolayers as ice nucleators. Majewski, J., et al. [1995.eng] 50-3040
Theory of inelastic x-ray scattering by phonons in ice. Johansson, P., [1996.eng] 50-6329
Time dependence of dislocation arrays in ice during recrystallization. van der Elksen, J., et al. [1996.eng] 50-6346
Transition from normal to fast sound in liquid water. Sette, F., et al. [1996.eng] 50-5710
X ray fluorescence screening for metals in soil. Hewitt, A.D., [1995.eng] 50-2442
X ray fluorescence spectrum analysis of the total mineral content of soils. Chen, T.M., et al. [1991.chi] 50-5135
X-ray analysis of frozen clathrate hydrates. Bednarek, J., et al. [1996.eng] 50-4555
X-ray analysis of ion distribution in frozen salt droplets. Orlovich, D.A., et al. [1995.eng] 50-6590
X-ray and neutron scattering studies of the structure of water at a hydrophobic surface. Bellissent-Funel, M.C., et al. [1996.eng] 50-5713
X-ray topographic study of ice crystal dislocations. Liu, F.P., et al. [1992.eng] 50-5958

X ray diffraction

- Comparative analytical techniques for glacial diamicton studies. Walden, J., et al. [1996.eng] 50-6537
Dynamical processes of dislocations and point defects in ice crystal. Higashi, A., et al. [1985.jpn] 50-5793
Mean amplitude of the OH...O hydrogen bond in ice and liquid water. Iijima, T., [1996.eng] 50-5022
Observation of slip transmission through a grain boundary in ice. Jia, K., et al. [1996.eng] 50-5297
Pleistocene glaciation of the Outer Hebrides, Scotland. Ballantyne, C.K., et al. [1995.eng] 50-6212
Role of uncompressed alcohol monolayers as ice nucleators. Majewski, J., et al. [1995.eng] 50-3040
Sound velocity in water and ice. Ruocco, G., et al. [1996.eng] 50-3102
Studies on ice nucleating behavior of AgI-AgBr-CuBr system. Radhakrishnan, T., et al. [1996.eng] 50-4290
Time dependence of dislocation arrays in ice during recrystallization. van der Elksen, J., et al. [1996.eng] 50-6346
X-ray analysis of frozen clathrate hydrates. Bednarek, J., et al. [1996.eng] 50-4555

Young ice

- Effect of sea ice frost flowers on infrared surface observations. Martin, S., et al. [1996.eng] 50-5858
Effect of sea ice surface features on radar backscatter. Ulander, L.M.H., et al. [1995.eng] 50-1813
Microwave imaging of Labrador Sea thin sea ice. Collins, M.J., et al. [1996.eng] 50-2701
Saline ice sheet surface scattering with controlled roughness parameters. Bredow, J.W., et al. [1995.eng] 50-982
Search for proxy indicators of young sea ice thickness. Zabel, I.H.H., et al. [1996.eng] 50-4303
Spaceborne photography of Spitsbergen marginal ice zone. Kergomard, C., [1989.fre] 50-5029